

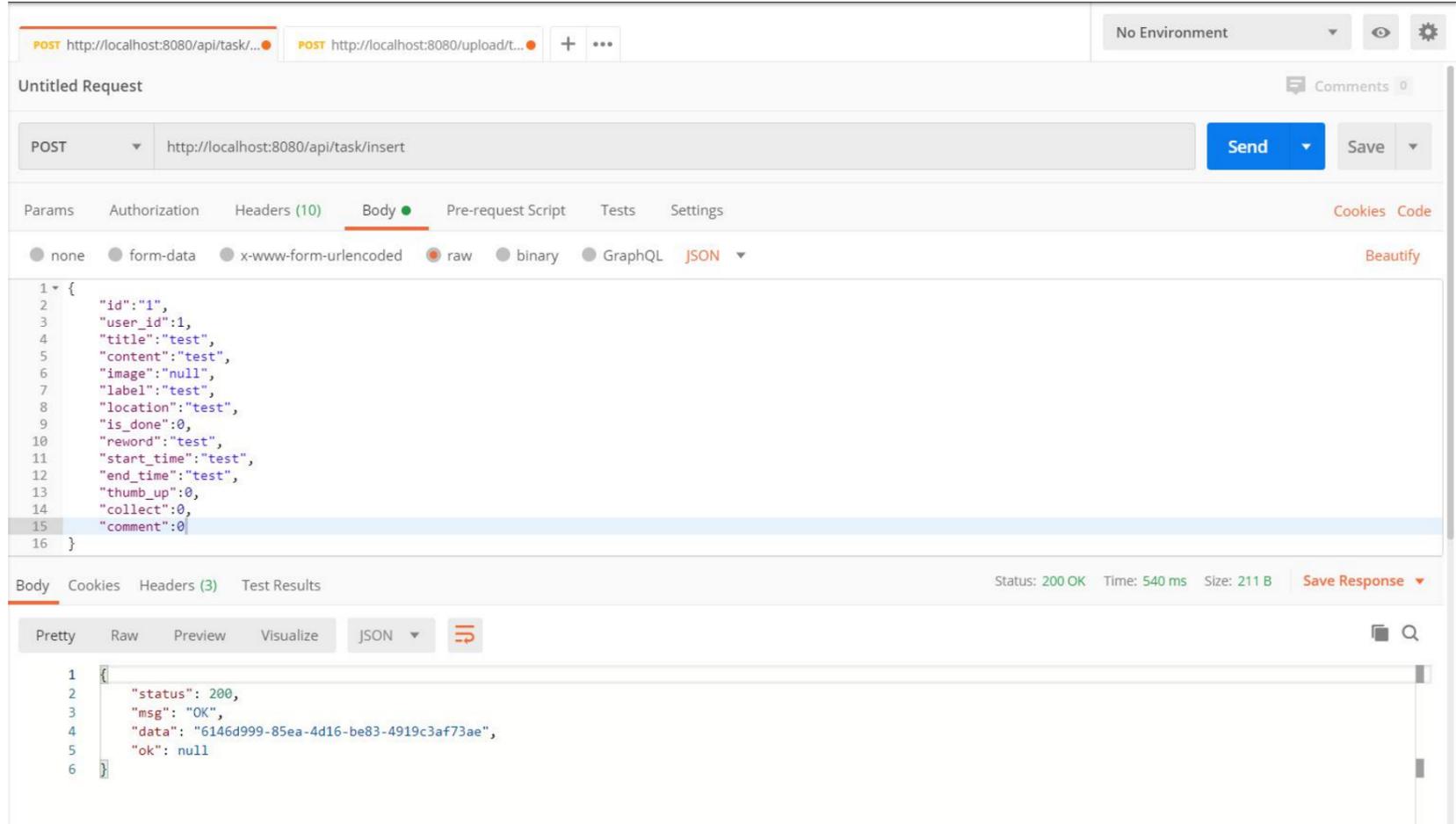
# 后端测试文档

2020年 05月 07日

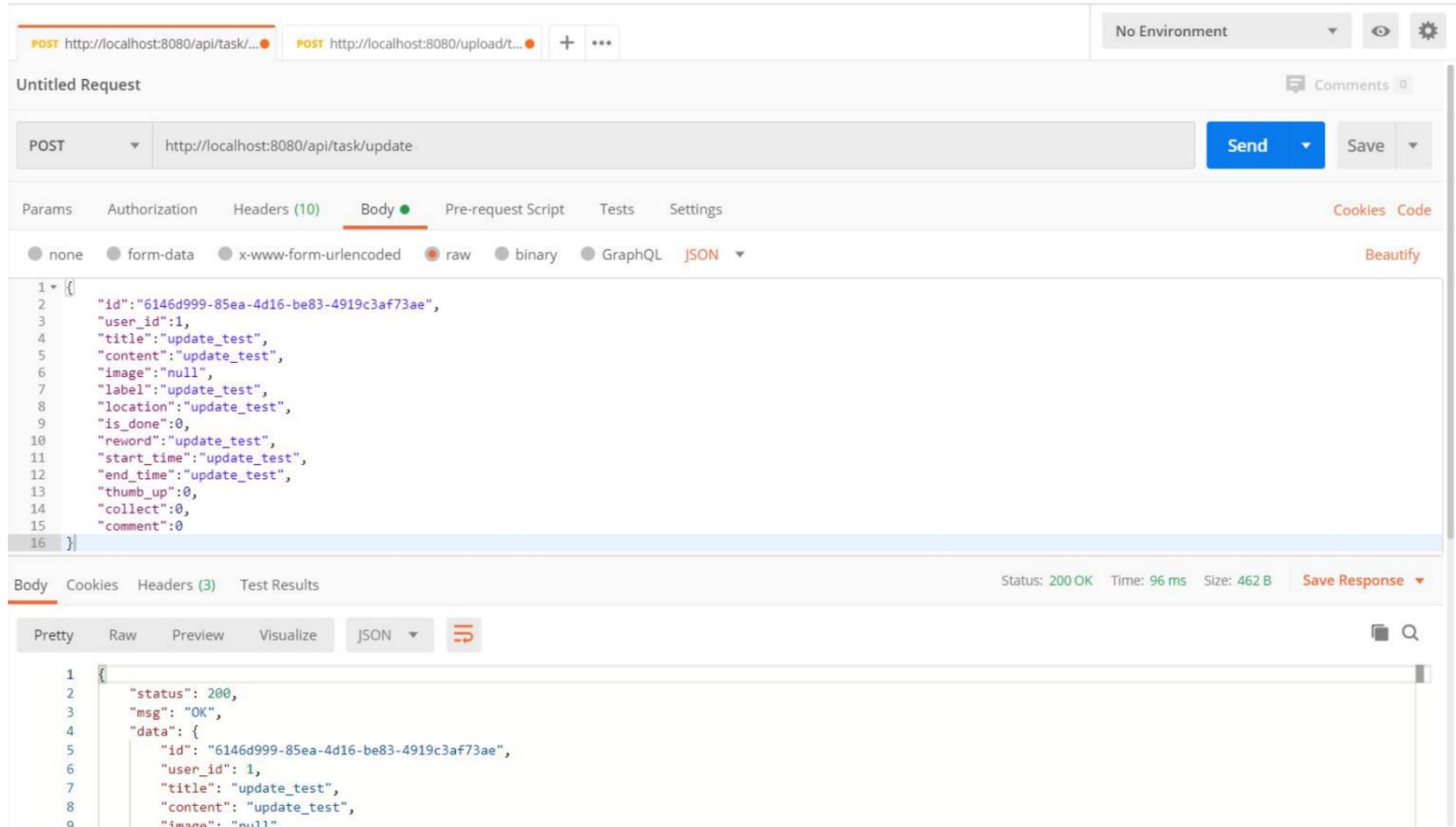
一、任务模块、评论模块测试——221701412 陈浩男

1. 任务模块

任务插入



任务更新



任务删除

POST http://localhost:8080/api/task/delete?id=1

Send Save

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	1	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 59 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

任务更新解决状态

POST http://localhost:8080/api/task/update/is\_done?id=6146d999-85ea-4d16-be83-4919c3af73ae&is\_done=1

Send Save

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	6146d999-85ea-4d16-be83-4919c3af73ae	
<input checked="" type="checkbox"/> is_done	1	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 674 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

任务点赞+1

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... No Environment

Untitled Request

POST http://localhost:8080/api/task/update/thumb\_up?id=6146d999-85ea-4d16-be83-4919c3af73ae Send Save

Params Authorization Headers (10) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	6146d999-85ea-4d16-be83-4919c3af73ae	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 55 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

任务收藏+1

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... No Environment

Untitled Request

POST http://localhost:8080/api/task/update/collect?id=6146d999-85ea-4d16-be83-4919c3af73ae Send Save

Params Authorization Headers (10) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	6146d999-85ea-4d16-be83-4919c3af73ae	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 110 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

任务评论+1

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... No Environment

Untitled Request Comments 0

POST http://localhost:8080/api/task/update/comment?id=6146d999-85ea-4d16-be83-4919c3af73ae Send Save

Params Authorization Headers (10) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	6146d999-85ea-4d16-be83-4919c3af73ae	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 49 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 查询全部任务

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... GET http://localhost:8080/api/task/q... No Environment

Untitled Request Comments 0

GET http://localhost:8080/api/task/query/all Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 55 ms Size: 965 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
7       "user_id": 1,
8       "title": "test2",
9       "content": "test2",
10      "image": "null",
11      "label": "test2",
12      "location": "test2",
13      "is_done": 0,
14      "reword": "test2",
15      "start_time": "test2",
16      "end_time": "test2",
17      "thumb_up": 0,
18      "collect": 0,
19      "comment": 0
20    }
21  ],
22 }

```

### Id 查询任务

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... GET http://localhost:8080/api/query... No Environment

Untitled Request Comments 0

GET http://localhost:8080/api/query/task/id/04cc5c44-2c3e-488b-9947-1b1db08e81c1 Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 19 ms Size: 425 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": {
5     "id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
6     "user_id": 1,
7     "title": "test2",
8     "content": "test2",
9     "image": "null",
10    "label": "test2",
11    "location": "test2",
12    "is_done": 0,
13    "reword": "test2",
14    "start_time": "test2",
15    "end_time": "test2",
16    "thumb_up": 0,
17    "collect": 0,
18    "comment": 0
19  },
20  "ok": null

```

### 任务 user\_id 查询

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... GET http://localhost:8080/api/task/q... No Environment

Untitled Request Comments 0

GET http://localhost:8080/api/task/query/user\_id/1 Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 606 ms Size: 965 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
7       "user_id": 1,
8       "title": "test2",
9       "content": "test2",
10      "image": "null",
11      "label": "test2",
12      "location": "test2",
13      "is_done": 0,
14      "reword": "test2",
15      "start_time": "test2",
16      "end_time": "test2",
17      "thumb_up": 0,
18      "collect": 0,
19      "comment": 0
20    }

```

### 任务模糊查询

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... GET http://localhost:8080/api/task/q... No Environment

Untitled Request Comments 0

GET http://localhost:8080/api/task/query/like/title/1 Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 19 ms Size: 427 B Save Response

Pretty Raw Preview Visualize JSON ≡

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "10c6512b-6681-4b7a-a038-bb8367ea80f4",
7       "user_id": 1,
8       "title": "test1",
9       "content": "test1",
10      "image": "null",
11      "label": "test1",
12      "location": "test1",
13      "is_done": 0,
14      "reword": "test1",
15      "start_time": "test1",
16      "end_time": "test1",
17      "thumb_up": 0,
18      "collect": 0,
19      "comment": 0
20    }
  ]
}

```

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... GET http://localhost:8080/api/task/q... No Environment

Untitled Request Comments 0

GET http://localhost:8080/api/task/query/like/content/1 Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 17 ms Size: 427 B Save Response

Pretty Raw Preview Visualize JSON ≡

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "10c6512b-6681-4b7a-a038-bb8367ea80f4",
7       "user_id": 1,
8       "title": "test1",
9       "content": "test1",
10      "image": "null",
11      "label": "test1",
12      "location": "test1",
13      "is_done": 0,
14      "reword": "test1",
15      "start_time": "test1",
16      "end_time": "test1",
17      "thumb_up": 0,
18      "collect": 0,
19      "comment": 0
20    }
  ]
}

```

POST http://localhost:8080/api/task/... POST http://localhost:8080/upload/t... GET http://localhost:8080/api/task/q... No Environment

Untitled Request

GET http://localhost:8080/api/task/query/like/label/1 Send Save

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 17 ms Size: 427 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "10c6512b-6681-4b7a-a038-bb8367ea80f4",
7       "user_id": 1,
8       "title": "test1",
9       "content": "test1",
10      "image": "null",
11      "label": "test1",
12      "location": "test1",
13      "is_done": 0,
14      "reword": "test1",
15      "start_time": "test1",
16      "end_time": "test1",
17      "thumb_up": 0,
18      "collect": 0,
19      "comment": 0
20    }
21  ]
22 }

```

Bootcamp

## 2. 评论模块

### 评论插入

POST http://... POST http://... GET http://o... POST http://l... GET http://4... GET Untitle... GET http://4... GET http://4... No Environment

Untitled Request

POST http://localhost:8080/api/task/comment/insert Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

none form-data x-www-form-urlencoded raw binary GraphQL JSON Beautify

```

1 {
2   "id": "1",
3   "user_id": 1,
4   "content": "test",
5   "publish_time": "test",
6   "table_id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
7   "thumb_up": 0,
8   "comment": 0
9 }

```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 100 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

Bootcamp

### 评论删除

POST http://localhost:8080/api/task/comment/delete?id=1

Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	1	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 111 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

评论更新内容

POST http://localhost:8080/api/task/comment/update/content?id=1&content=content\_update

Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	1	
<input checked="" type="checkbox"/> content	content_update	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 103 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

评论点赞+1

POST http://localhost:8080/api/task/comment/update/thumb\_up?id=1

Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	1	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 82 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 评论子评论+1

POST http://localhost:8080/api/task/comment/update/comment?id=1

Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	1	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 82 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 查询全部评论

POST http://... GET http://lo... GET Untitle... GET http://4... GET Untitle... GET http://4... GET http://4... No Environment

Untitled Request

GET http://localhost:8080/api/task/comment/query/all

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 22 ms Size: 316 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "1",
7       "user_id": 1,
8       "content": "test",
9       "publish_time": "test",
10      "table_id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
11      "thumb_up": 0,
12      "comment": 0
13    }
14  ],
15  "ok": null
16 }

```

### Id 查询评论

POST http://... POST http://... GET http://lo... GET Untitle... GET http://4... GET Untitle... GET http://4... GET http://4... No Environment

Untitled Request

GET http://localhost:8080/api/query/task/comment/id/1

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 20 ms Size: 314 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": {
5     "id": "1",
6     "user_id": 1,
7     "content": "test",
8     "publish_time": "test",
9     "table_id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
10    "thumb_up": 0,
11    "comment": 0
12  },
13  "ok": null
14 }

```

### Table\_id 查询评论

REST client interface showing a successful GET request to `http://localhost:8080/api/query/task/comment/table_id/04cc5c44-2c3e-488b-9947-1b1db08e81c1`. The response is a JSON object with status 200 OK, time 17 ms, and size 316 B. The response body is:

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": "1",
7       "user_id": 1,
8       "content": "test",
9       "publish_time": "test",
10      "table_id": "04cc5c44-2c3e-488b-9947-1b1db08e81c1",
11      "thumb_up": 0,
12      "comment": 0
13    }
14  ],
15  "ok": null
16 }
```

## 二、用户、管理员测试——221701429 黄晓东

### 1. 用户模块

#### 用户注册

REST client interface showing a failed POST request to `localhost:8080/api/user/register`. The request body is:

```
1 {
2   "accountNumber": "221701429",
3   "password": "221701429",
4   "sex": 0,
5   "name": "黄晓东",
6   "phoneNumber": "13225940608",
7   "head": "",
8   "address": "福州大学生活三区",
9   "info": ""
10 }
```

The response is a JSON object with status 500, time 18 ms, and size 179 B. The response body is:

```
1 {
2   "status": 500,
3   "msg": "fail",
4   "data": null,
5   "ok": null
6 }
```

#### 用户登录

Untitled Request Comments 0

POST localhost:8080/api/user/login?accountNumber=221701429&password=221701429 Send Save

Params ● Authorization Headers (9) Body ● Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			
<input checked="" type="checkbox"/> password	221701429			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 42 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

### 用户找回密码

Untitled Request Comments 0

POST localhost:8080/api/user/find/password?accountNumber=221701429&newPassword=221701429 Send Save

Params ● Authorization Headers (9) Body ● Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			
<input checked="" type="checkbox"/> newPassword	221701429			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 17 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

### 用户修改密码

Untitled Request Comments 0

POST localhost:8080/api/user/update/password?accountNumber=221701429&password=221701429&newPassword=123456 Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			
<input checked="" type="checkbox"/> password	221701429			
<input checked="" type="checkbox"/> newPassword	123456			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 375 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

### 删除用户

Untitled Request Comments 0

POST localhost:8080/api/user/delete?accountNumber=221701429 Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 403 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

### 更新用户信息

Untitled Request Comments 0

POST localhost:8080/api/user/update Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL **JSON** Beautify

```

1 {
2   "accountNumber": "221701429",
3   "password": "221701429",
4   "sex": 0,
5   "name": "黄晓东",
6   "phoneNumber": "13225940608",
7   "head": "",
8   "address": "福州大学生活三区",
9   "info": ""
10 }

```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 386 ms Size: 182 B Save Response

Pretty Raw Preview Visualize **JSON** 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 查询全部用户

Untitled Request Comments 0

GET localhost:8080/api/user/query/all Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 20 ms Size: 745 B Save Response

Pretty Raw Preview Visualize **JSON** 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": 16,
7       "accountNumber": "221701429",
8       "password": "362CE29FF3A542295981D93DF7772633",
9       "sex": 0,
10      "name": "黄晓东",
11      "phoneNumber": "13225940608",
12      "head": "",
13      "address": "福州大学生活三区",
14      "info": ""
15    },
16    {
17      "id": 17,
18      "accountNumber": "221701412",
19      "password": "55B3536196019BEAC1ABC605E353B977",
20      "sex": 0,

```

### 账号查询用户

Untitled Request Comments 0

GET localhost:8080/api/user/query/accountNumber/221701429 Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 19 ms Size: 373 B Save Response

Pretty Raw Preview Visualize **JSON** Beautify

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": {
5     "id": 16,
6     "accountNumber": "221701429",
7     "password": "362CE29FF3A542295981D93DF7772633",
8     "sex": 0,
9     "name": "黄晓东",
10    "phoneNumber": "13225940608",
11    "head": "",
12    "address": "福州大学生活三区",
13    "info": ""
14  },
15  "ok": null
16 }
```

## 2. 管理员模块

### 管理员注册

Untitled Request Comments 0

POST localhost:8080/api/admin/register Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

none  form-data  x-www-form-urlencoded  raw  binary  GraphQL **JSON** Beautify

```
1 {
2   "accountNumber": "221701429",
3   "password": "221701429",
4   "authority": 1
5 }
```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 497 ms Size: 182 B Save Response

Pretty Raw Preview Visualize **JSON** Beautify

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

### 管理员登录

Untitled Request Comments 0

POST localhost:8080/api/admin/login?accountNumber=221701429&password=221701429 Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			X
<input checked="" type="checkbox"/> password	221701429			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 32 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🗑️ 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 管理员找回密码

Untitled Request Comments 0

POST localhost:8080/api/admin/find/password?accountNumber=221701429&newPassword=221701429 Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			
<input checked="" type="checkbox"/> newPassword	221701429			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 18 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🗑️ 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 管理员修改密码

Untitled Request Comments 0

POST localhost:8080/api/admin/update/password?accountNumber=221701429&password=123456&newPassword=123456 Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/> accountNumber	221701429			
<input checked="" type="checkbox"/> password	123456			
<input checked="" type="checkbox"/> newPassword	123456			
Key	Value	Description		

Body Cookies Headers (3) Test Results Status: 200 OK Time: 28 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 更新管理员信息

Untitled Request Comments 0

POST localhost:8080/api/admin/update/ Send Save

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings Cookies Code

none
 form-data
 x-www-form-urlencoded
 raw
 binary
 GraphQL
 JSON Beautify

```

1 {
2   "accountNumber": "221701429",
3   "password": "221701429",
4   "authority": 2
5 }

```

Body Cookies Headers (3) Test Results Status: 200 OK Time: 412 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 删除管理员

Untitled Request Comments 0

POST localhost:8080/api/admin/delete?accountNumber=221701429 Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> accountNumber	221701429	
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 505 ms Size: 182 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 查询全部管理员

Untitled Request Comments 0

GET localhost:8080/api/admin/query/all Send Save

Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results Status: 200 OK Time: 23 ms Size: 535 B Save Response

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id": 2,
7       "accountNumber": "221701417",
8       "password": "ADF5C7B82DAA12E8",
9       "authority": 2
10    },
11    {
12     "id": 4,
13     "accountNumber": "221701412",
14     "password": "14FF8B2487029247",
15     "authority": 2
16    },
17    {
18     "id": 5,
19     "accountNumber": "221701420",
20     "password": "362CE29FF3A5422906220F07E344C97E",

```

### 账号查询管理员

Untitled Request Comments 0

GET localhost:8080/api/admin/query/accountNumber/221701429 Send Save

Params Authorization Headers (9) Body ● Pre-request Script Tests Settings Cookies Code

Query Params

KEY	VALUE	DESCRIPTION	...
Key	Value	Description	Bulk Edit

Body Cookies Headers (3) Test Results Status: 200 OK Time: 26 ms Size: 274 B Save Response

Pretty Raw Preview Visualize JSON 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": {
5     "id": 6,
6     "accountNumber": "221701429",
7     "password": "362CE29FF3A542295981D93DF772633",
8     "authority": 2
9   },
10  "ok": null
11 }

```

### 三、失物招领、物品租赁模块测试——2217014132 郑斯彬

#### 1. 失物招领模块

##### 失物插入

POST localhost:8080/api/lost\_and\_found/insert Send Save

Params Auth Headers (9) Body ● Pre-req. Tests Settings Cookies Code Status: 200 OK Time: 29 ms Size: 216 B Save Response

raw JSON Beautify

```

1 {
2   "userId":1,
3   "title":"阿萨德浓氨水你都塞纳的离开",
4   "content":"打算看你的克兰斯柯达纳克里斯你打开",
5   "image": "...",
6   "label":"阿萨德马上货",
7   "location":"阿萨德马克塑料袋",
8   "isLost":0
9 }
10

```

Body Cookies Headers (3) Test Results Save Response

Pretty Raw Preview Visualize JSON 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": "b4d112eb-2e98-493a-8efc-1e78e9c33310",
5   "ok": null
6 }

```

##### 失物删除

POST localhost:8080/api/lost\_and\_found/delete Send Save

Params Auth Headers (9) **Body** Pre-req. Tests Settings Cookies Code

raw JSON Beautify

```

1 {
2   "id": "0c86bb46-e6d7-4132-b097-9e9bea80eaff"
3 }
4

```

Status: 200 OK Time: 992 ms Size: 182 B Save Response

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

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#### 失物更新解决状态

GET localhost:8080/api/lost\_and\_found/update/isDone?id=b4d112eb-2e98-493a-8efc-1e78e9c33310 Send Save

Params **Auth** Headers (10) Body Pre-req. Tests Settings Cookies Code

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	id	b4d112eb...	
	Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

#### 失物点赞+1

GET localhost:8080/api/lost\_and\_found/update/thumbUp?id=b4d112eb-2e98-493a-8efc-1e78e9c33310 Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 37 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	b4d112eb...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

失物收藏+1

GET localhost:8080/api/lost\_and\_found/update/collect?id=b4d112eb-2e98-493a-8efc-1e78e9c33310 Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 16 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	b4d112eb...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

失物评论+1

GET localhost:8080/api/lost\_and\_found/update/comment?id=b4d112eb-2e98-493a-8efc-1e78e9c33310 Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 28 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	b4d112eb...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 查询全部失物

GET localhost:8080/api/lost\_and\_found/query/all

Status: 200 OK Time: 70 ms Size: 1.3 KB

KEY	VALUE	DESCRIPTION
Key	Value	Description

```
{
  "status": 200,
  "msg": "succeed",
  "data": [
    {
      "id": "2f50029a-8335-4a19-b971-f37c0aa07c34",
      "userId": 1,
      "title": "asd",
      "content": "asd",
      "image": "asd",
      "label": "asd",
      "location": "asd",
      "isDone": 0,
      "time": "asd",
      "isLost": 0,
      "thumbUp": 0,
      "collect": 0,
      "comment": 0
    },
    {
      "id": "4ef06c26-2ab6-4b4c-01bc-f311205c602"
```

### Id 查询失物

GET localhost:8080/api/lost\_and\_found/query/id?id=b4d112eb-2e98-493a-8efc-1e78e9c33310

Status: 200 OK Time: 51 ms Size: 516 B

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	b4d112eb...	
Key	Value	Description

```
{
  "status": 200,
  "msg": "succeed",
  "data": {
    "id": "b4d112eb-2e98-493a-8efc-1e78e9c33310",
    "userId": 1,
    "title": "阿萨德浓氨水你都塞纳的离开",
    "content": "打算看你的克兰斯柯达纳克里斯你打开",
    "image": "...",
    "label": "阿萨德马上货",
    "location": "阿萨德马克塑料袋",
    "isDone": 1,
    "time": "2020-05-03 23:59:14",
    "isLost": 0,
    "thumbUp": 1,
    "collect": 1,
    "comment": 1
  },
  "ok": null
}
```

### User\_id 查询失物

GET localhost:8080/api/lost\_and\_found/query/userId?userId=1 Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 69 ms Size: 1.3 KB Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> userId	1...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON ↺ 📄 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "2f50029a-8335-4a19-b971-f37c0aa07c
8         34",
9       "userId": 1,
10      "title": "asd",
11      "content": "asd",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 0,
16      "time": "asd",
17      "isLost": 0,
18      "thumbUp": 0,
19      "collect": 0,
20      "comment": 0
21    },
22    {
23      "id":

```

### 模糊查询失物

GET localhost:8080/api/lost\_and\_found/query/like/title?text=s Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 45 ms Size: 997 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> text	s...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON ↺ 📄 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "2f50029a-8335-4a19-b971-f37c0aa07c
8         34",
9       "userId": 1,
10      "title": "asd",
11      "content": "asd",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 0,
16      "time": "asd",
17      "isLost": 0,
18      "thumbUp": 0,
19      "collect": 0,
20      "comment": 0
21    },
22    {
23      "id":

```

GET localhost:8080/api/lost\_and\_found/query/like/content?text=s Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 36 ms Size: 587 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> text	s...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "2f50029a-8335-4a19-b971-f37c0aa07c
8         34",
9       "userId": 1,
10      "title": "asd",
11      "content": "asd",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 0,
16      "time": "asd",
17      "isLost": 0,
18      "thumbUp": 0,
19      "collect": 0,
20      "comment": 0
21    },
22  ]
23 }

```

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GET localhost:8080/api/lost\_and\_found/query/like/label?text=a Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 22 ms Size: 997 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> text	a...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "2f50029a-8335-4a19-b971-f37c0aa07c
8         34",
9       "userId": 1,
10      "title": "asd",
11      "content": "asd",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 0,
16      "time": "asd",
17      "isLost": 0,
18      "thumbUp": 0,
19      "collect": 0,
20      "comment": 0
21    },
22  ]
23 }

```

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## 2. 物品租赁模块

插入物品

POST localhost:8080/api/rental/insert

Status: 200 OK Time: 63 ms Size: 216 B

Body

```
1 {
2   "userId":1,
3   "title":"test2",
4   "content":111,
5   "image":"asd",
6   "label":"asd",
7   "location":"asd",
8   "unitPrice":12.3,
9   "newDegree":90
10 }
11
```

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": "5aa20998-5c3c-4318-baca-2fa8acbbf49b",
5   "ok": null
6 }
```

Bootcamp Build Browse

#### 删除物品

POST localhost:8080/api/rental/delete

Status: 200 OK Time: 28 ms Size: 182 B

Body

```
1 {
2   "id":"f6282d59-928a-41f0-a3b2-94c0abb0eeb4"
3 }
4
```

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

#### 更新物品解决状态

GET localhost:8080/api/rental/update/isDone?id=5aa20998-5c3c-4318-baca-2fa8acbbf49b Send Save

Params Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 48 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	5aa20998-...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON Copy Search

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

物品点赞+1

GET localhost:8080/api/rental/update/thumbUp?id=5aa20998-5c3c-4318-baca-2fa8acbbf49b Send Save

Params Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 28 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	5aa20998-...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON Copy Search

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

物品收藏+1

GET localhost:8080/api/rental/update/collect?id=5aa20998-5c3c-4318-baca-2fa8acbbf49b Send Save

Params Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 16 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	5aa20998-...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON Copy Search

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }
```

物品评论+1

GET localhost:8080/api/rental/update/comment?id=5aa20998-5c3c-4318-baca-2fa8acbbf49b Send Save

Params Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code Status: 200 OK Time: 35 ms Size: 182 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	5aa20998-...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON ≡ 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": null,
5   "ok": null
6 }

```

### 查询全部物品

GET localhost:8080/api/rental/query/all Send Save

Params Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code Status: 200 OK Time: 22 ms Size: 705 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON ≡ 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "5aa20998-5c3c-4318-baca-2fa8acbbf49
8         b",
9       "userId": 1,
10      "title": "test2",
11      "content": "111",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 1,
16      "unitPrice": "12.3",
17      "startTime": "2020-05-04 00:16:26",
18      "endTime": "2020-05-04 00:17:07",
19      "newDegree": 90,
20      "thumbUp": 1,
21      "collect": 1,
22      "comment": 1
23    },
24  ],
25 }

```

### Id 查询物品

Untitled Request

GET localhost:8080/api/rental/query/id?id=5aa20998-5c3c-4318-baca-2fa8acbbf49b

Params Auth Headers (10) Body Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 25 ms Size: 458 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> id	5aa20998-...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": {
5     "id":
6       "5aa20998-5c3c-4318-baca-2fa8acbbf49b",
7     "userId": 1,
8     "title": "test2",
9     "content": "111",
10    "image": "asd",
11    "label": "asd",
12    "location": "asd",
13    "isDone": 1,
14    "unitPrice": "12.3",
15    "startTime": "2020-05-04 00:16:26",
16    "endTime": "2020-05-04 00:17:07",
17    "newDegree": 90,
18    "thumbUp": 1,
19    "collect": 1,
20    "comment": 1
21  },
22  "ok": null

```

### User\_id 查询物品

Untitled Request

GET localhost:8080/api/rental/query/userId?userId=1

Params Auth Headers (10) Body Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 24 ms Size: 705 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> userId	1 ...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "5aa20998-5c3c-4318-baca-2fa8acbbf4
8         9b",
9       "userId": 1,
10      "title": "test2",
11      "content": "111",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 1,
16      "unitPrice": "12.3",
17      "startTime": "2020-05-04 00:16:26",
18      "endTime": "2020-05-04 00:17:07",
19      "newDegree": 90,
20      "thumbUp": 1,
21      "collect": 1,
22      "comment": 1
23    },
24  ]

```

### 模糊查询物品

GET localhost:8080/api/rental/query/like/title?text=t Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 21 ms Size: 705 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> text	t...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON ↺ 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "5aa20998-5c3c-4318-baca-2fa8acbbf4
8         9b",
9       "userId": 1,
10      "title": "test2",
11      "content": "111",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 1,
16      "unitPrice": "12.3",
17      "startTime": "2020-05-04 00:16:26",
18      "endTime": "2020-05-04 00:17:07",
19      "newDegree": 90,
20      "thumbUp": 1,
21      "collect": 1,
22      "comment": 1
23    }
24  ],
25 }

```

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GET localhost:8080/api/rental/query/like/content?text=1 Send Save

Params ● Auth Headers (10) Body ● Pre-req. Tests Settings Cookies Code

Status: 200 OK Time: 28 ms Size: 705 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> text	1...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON ↺ 🔍

```

1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "5aa20998-5c3c-4318-baca-2fa8acbbf4
8         9b",
9       "userId": 1,
10      "title": "test2",
11      "content": "111",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 1,
16      "unitPrice": "12.3",
17      "startTime": "2020-05-04 00:16:26",
18      "endTime": "2020-05-04 00:17:07",
19      "newDegree": 90,
20      "thumbUp": 1,
21      "collect": 1,
22      "comment": 1
23    }
24  ],
25 }

```

Bootcamp Build Browse 🔍

GET localhost:8080/api/rental/query/like/label?text=a Send Save

Params Auth Headers (10) Body Pre-req. Tests Settings Cookies Code Status: 200 OK Time: 19 ms Size: 705 B Save Response

Query Params

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> text	a...	
Key	Value	Description

Body Cookies Headers (3) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "status": 200,
3   "msg": "succeed",
4   "data": [
5     {
6       "id":
7         "5aa20998-5c3c-4318-baca-2fa8acbbf4
8         9b",
9       "userId": 1,
10      "title": "test2",
11      "content": "111",
12      "image": "asd",
13      "label": "asd",
14      "location": "asd",
15      "isDone": 1,
16      "unitPrice": "12.3",
17      "startTime": "2020-05-04 00:16:26",
18      "endTime": "2020-05-04 00:17:07",
19      "newDegree": 90,
20      "thumbUp": 1,
21      "collect": 1,
22      "comment": 1
23    }
24  ],
25 }
```

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后端工具类单元测试——221701432 郑斯彬

### 1. 日期类工具测试

代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [C:\Users\Z&C\Desktop\SchoolMustardSpace\Java\SchoolMustardSpace-Java] - ... \DateResultTest.java
SchoolMustardSpace-Java \src \test \java \com \springboot \utils \datetool \DateResultTest MustardSpaceApplication
Project SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolMustardSpace\Java\SchoolMustardSpace-Java
External Libraries
Scratches and Consoles
package com.springboot.utils.datetool;
import org.junit.Assert;
import org.junit.Test;
import com.springboot.utils.datetool.DateResult;
import org.junit.runner.RunWith;

import java.text.SimpleDateFormat;
import java.util.Date;

import static org.junit.Assert.*;

/**
 * @author 会飞的大野鸡
 * @create 2020/5/6
 * TODO:
 */

public class DateResultTest {

    @Test
    public void getCurrentTime() {
        String time = dateResult.getCurrentTime();

        SimpleDateFormat ct = new SimpleDateFormat( pattern: "yyyy-MM-dd HH:mm:ss");//设置日期格式
        String systemTime = ct.format(new Date());

        Assert.assertEquals( time , systemTime);
    }

    @Test
    public void getBetweenDay() {
        Date date1 = new Date( year: 2020-1900 , month: 6-1 , date: 12);
        Date date2 = new Date( year: 2020-1900 , month: 6-1 , date: 13);
        int count = new DateResult().getBetweenDay(date1 , date2);
        Assert.assertEquals( expected: 1 , count);

        Date date3 = new Date( year: 2020-1900 , month: 12-1 , date: 14);
        Date date4 = new Date( year: 2020-1900 , month: 7-1 , date: 7);
        int count1 = new DateResult().getBetweenDay(date3 , date4);
        Assert.assertEquals( expected: -160 , count1);
    }

    @Test
    public void moveTime() {
        Date date1 = new Date( year: 2020-1900 , month: 7-1 , date: 14);
        Date test = new Date( year: 2020-1900 , month: 12-1 , date: 14);

        Assert.assertEquals( test , new DateResult().moveTime(date1, day: 153));
    }
}

DateResultTest -> moveTime()
```

## 运行结果

```
Run: DateResultTest
Tests passed: 3 of 3 tests - 44 ms
DateResultTest (com.springboot.utils.datetool) 44 ms /Library/Java/JavaVirtualMachines/jdk1.8.0_231.jdk/Contents/Home/bin/java ...
  moveTime 21 ms
  getCurrentTime 17 ms
  getBetweenDay 6 ms
Process finished with exit code 0
```

## 2. 密码加密工具测试

### 代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [...]Z&C\Desktop\SchoolMustardSpaceJava\SchoolMustardSpace-Java] ...\DesEncryptionTest.java
SchoolMustardSpace-Java \src\test\java\com\springboot\utils\encryptiontool\DesEncryptionTest MustardSpaceApplication
Project
SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolMustardSpace-Java
External Libraries
Scratches and Consoles
package com.springboot.utils.encryptiontool;
//import org.jboss.arquillian.container.test.api.Deployment;
//import org.jboss.arquillian.junit.Arquillian;
//import org.jboss.shrinkwrap.api.ShrinkWrap;
//import org.jboss.shrinkwrap.api.asset.EmptyAsset;
//import org.jboss.shrinkwrap.api.spec.JavaArchive;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import static org.junit.Assert.*;
/**
 * @author 会飞的大野鸡
 * @create 2020/5/6
 * TODO:
 */
public class DesEncryptionTest {
    @Test
    public void decryptMode() {
        String msg = "123123123";
        byte[] secretArr = new DesEncryption().encryptMode(msg.getBytes());
        String str = new DesEncryption().byte2Hex(secretArr);
        Assert.assertEquals(str, "7DD825A84D4F41B61C6CA960CB9C0AB9");
    }
    @Test
    public void byte2Hex() {
        String msg = "123123123";
        byte[] secretArr = DesEncryption.encryptMode(msg.getBytes());
        byte[] myMsgArr = new DesEncryption().decryptMode(secretArr);
        Assert.assertEquals("expected: \"123123123\" , new String(myMsgArr)");
    }
}
```

### 运行结果

```
Run: DesEncryptionTest
Tests passed: 2 of 2 tests - 737 ms
DesEncryptionTest (com.springboot.utils.encryptiontool) 737 ms /Library/Java/JavaVirtualMachines/jdk1.8.0_231.jdk/Contents/Home/bin/java ...
  byte2Hex 736 ms
  decryptMode 1 ms
Process finished with exit code 0
```

### 3. Url 转码工具测试

#### 代码截图

```
1 package com.springboot.utils.urltool;
2
3 import org.junit.Assert;
4 import org.junit.Test;
5 import org.junit.runner.RunWith;
6
7 import java.io.UnsupportedEncodingException;
8
9 import static org.junit.Assert.*;
10
11
12 /**
13  * @author 会飞的大野鸡
14  * @create 2020/5/6
15  * TODO:
16  */
17
18 public class UrlCodeTest {
19     @Test
20     public void urlEncode() {
21         String code = "%E6%9D%8E%E7%9F%A5%E6%81%A9%E6%88%91%E8%80%B1%E5%A9%86";
22         code.toUpperCase();
23         try {
24             Assert.assertEquals(code, new UrlCode().urlEncode("李知恩我老婆"));
25         } catch (UnsupportedEncodingException e) {
26             e.printStackTrace();
27         }
28     }
29 }
30
```

### 运行结果

```
Run: UrlCodeTest x
✓ Tests passed: 1 of 1 test - 12 ms
✓ UrlCodeTest (com.springboot.utils.urltool) 12 ms /Library/Java/JavaVirtualMachines/jdk1.8.0_231.jdk/Contents/Home/bin/java ...
  ✓ urlEncode 12 ms
  Process finished with exit code 0
```

### 4. uuid 工具测试

#### 代码截图

```
1 package com.springboot.utils.uuidtool;
2
3
4 import org.junit.Assert;
5 import org.junit.Test;
6 import org.junit.runner.RunWith;
7
8 import static org.junit.Assert.*;
9
10
11 /**
12  * @author 会飞的大野鸡
13  * @create 2020/5/6
14  * TODO:
15  */
16
17 public class UuidResultTest {
18
19     @Test
20     public void setUuidResult() {
21         String uuid = new UuidResult().setUuidResult();
22         String uuid1 = new UuidResult().setUuidResult();
23         String uuid2 = new UuidResult().setUuidResult();
24         String uuid3 = new UuidResult().setUuidResult();
25         String uuid4 = new UuidResult().setUuidResult();
26
27         Assert.assertNotEquals(uuid, uuid1);
28         Assert.assertNotEquals(uuid, uuid2);
29         Assert.assertNotEquals(uuid, uuid3);
30         Assert.assertNotEquals(uuid, uuid4);
31         Assert.assertNotEquals(uuid1, uuid2);
32         Assert.assertNotEquals(uuid1, uuid3);
33         Assert.assertNotEquals(uuid1, uuid4);
34         Assert.assertNotEquals(uuid2, uuid3);
35         Assert.assertNotEquals(uuid2, uuid4);
36         Assert.assertNotEquals(uuid3, uuid4);
37     }
38 }
39
```

## 运行结果

```
Run: UuidResultTest x
Tests passed: 1 of 1 test - 44 ms
UuidResultTest (com.springboot.utils.uuidtool) 44 ms /Library/Java/JavaVirtualMachines/jdk1.8.0_231.jdk/Contents/Home/bin/java ...
  setUuidResult 44 ms
Process finished with exit code 0
```

后端框架单元测试——221701412 陈浩男、221701432 郑斯彬

### 1. 管理员服务层测试

代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [...] \AdminuserServiceTest.java
SchoolMustardSpace-Java
Project
SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolM...
External Libraries
Scratches and Consoles
UserServiceTest.java x AdminuserServiceTest.java x DateResultTest.java x DesEncryptionTest.java x URCodeTest.java x UuidResultTest.java x
package com.test.servicetest;
import com.springboot.MustardSpaceApplication;
import com.springboot.domain.Adminuser;
import com.springboot.service.AdminuserService;
import com.springboot.utils.encryptiontool.DesEncryption;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringRunner;
import static com.springboot.utils.encryptiontool.DesEncryption.byte2Hex;
/**
 * @author 会飞的大野鸡
 * @create 2020/5/7
 * TODO:
 */
@RunWith(SpringRunner.class)
@SpringBootTest(classes = {MustardSpaceApplication.class})
public class AdminuserServiceTest {
    @Autowired
    private AdminuserService adminuserService;
    /**
     * testLogin
     * TODO
     * @description testLogin
     * s, "µ~ø "Vç" 221701412 v~-I 666666
     * @author 221701412_theTuring
     * @version v 1.0.0
     * @since 2020.5.6
     */
    @Test
    public void testLogin(){
        String account = "221701412";
        String password = "test666";
        // 加密
        byte[] secretArr = DesEncryption.encryptMode(password.getBytes());
        String str = byte2Hex(secretArr);
        String result = adminuserService.login(account,str);
        String expected = "succeed";
        Assert.assertEquals(expected,result);
    }
    /**
     * testRegister
     * TODO
     * @description testRegister
     * @author 221701412_theTuring
     * @version v 1.0.0
     * @since 2020.5.6
     */
    @Test
    public void testRegister(){
        Adminuser adminuser = new Adminuser();
        adminuser.setAccountNumber("test");
        adminuser.setPassword("test");
        adminuser.setAuthority(0);
        String result = adminuserService.register(adminuser);
        String expected = "succeed";
        Assert.assertEquals(expected,result);
    }
    /**
     * testFindPassword
     * TODO
     * @description testFindPassword
     * @author 221701412_theTuring
     * @version v 1.0.0
     * @since 2020.5.6
     */
    @Test
    public void testFindPassword(){
        String account = "221701412";
        String password = "test666";
        // 加密
        byte[] secretArr = DesEncryption.encryptMode(password.getBytes());
        String str = byte2Hex(secretArr);
        String result = adminuserService.findPassword(account,str);
        String expected = "succeed";
        Assert.assertEquals(expected,result);
    }
    /**
     * testChangePassword
     * TODO
     * @description testChangePassword
     * @author 221701412_theTuring
     * @version v 1.0.0
     * @since 2020.5.6
     */
    @Test
    public void testChangePassword(){
        String account = "221701412";
        String password = "test666";
        String newPassword = "test666";
        // 加密
        byte[] secretArr = DesEncryption.encryptMode(password.getBytes());
        String str = byte2Hex(secretArr);
        String result = adminuserService.changePassword(account,str,newPassword);
        String expected = "succeed";
    }
}
```

## 运行结果



## 2. 用户服务层测试

### 代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [C:\Users\Z&C\Desktop\SchoolMustardSpace\Java\SchoolMustardSpace-Java] - ...\UserServiceTest.java
SchoolMustardSpace-Java \src\main\java\com\test\servicetest\UserServiceTest MustardSpaceApplication
Project SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolMustardSpace\Java\SchoolMustardSpace-Java
External Libraries
Scratches and Consoles
UserServiceTest.java AdminuserServiceTest.java DateResultTest.java DesEncryptionTest.java UrlCodeTest.java UuidResultTest.java
1 package com.test.servicetest;
2 import com.springboot.MustardSpaceApplication;
3 import com.springboot.domain.User;
4 import com.springboot.service.UserService;
5 import com.springboot.utils.encryptiontool.DesEncryption;
6 import org.junit.Assert;
7 import org.junit.Test;
8 import org.junit.runner.RunWith;
9 import org.springframework.beans.factory.annotation.Autowired;
10 import org.springframework.boot.test.context.SpringBootTest;
11 import org.springframework.test.context.junit4.SpringRunner;
12
13 import static com.springboot.utils.encryptiontool.DesEncryption.byte2Hex;
14
15 /**
16  * @author 会飞的大野鸡
17  * @create 2020/5/7
18  * TODO:
19  */
20
21
22 @RunWith(SpringRunner.class)
23 @SpringBootTest(classes = {MustardSpaceApplication.class})
24 public class UserServiceTest {
25
26     @Autowired
27     private UserService userService;
28
29
30     /**
31      * testLogin
32      * TODO
33      * @description testLogin
34      * s, "μ~ε "√ε" 221701412 √ε-I 666666
35      * @author 221701412_theTuring
36      * @version v 1.0.0
37      * @since 2020.5.6
38      */
39     @Test
40     public void testLogin(){
41
42         String account = "221701412";
43         String password = "test666";
44
45         // 加密
46         byte[] secretArr = DesEncryption.encryptMode(password.getBytes());
47         String str = byte2Hex(secretArr);
48
49         String result = userService.login(account,str);
50         String expected = "succeed";
51
52         Assert.assertEquals(expected,result);
53     }
54
55     /**
56      * testRegister
57      * TODO
58      * @description testRegister
59      * @author 221701412_theTuring
60      * @version v 1.0.0
61      * @since 2020.5.6
62      */
63     @Test
64     public void testRegister(){
65
66         User user = new User();
67
68         user.setAccountNumber("test");
69         user.setPassword("test");
70
71         String result = userService.register(user);
72         String expected = "succeed";
73
74         Assert.assertEquals(expected,result);
75     }
76
77     /**
78      * testFindPassword
79      * TODO
80      * @description testFindPassword
81      * @author 221701412_theTuring
82      * @version v 1.0.0
83      * @since 2020.5.6
84      */
85     @Test
86     public void testFindPassword(){
87
88         String account = "221701412";
89         String password = "test666";
90
91         // 加密
92         byte[] secretArr = DesEncryption.encryptMode(password.getBytes());
93         String str = byte2Hex(secretArr);
94
95         String result = userService.findPassword(account,str);
96         String expected = "succeed";
97
98         Assert.assertEquals(expected,result);
99     }
100
101
102     /**
103      * testChangePassword
104      * TODO
105      * @description testChangePassword
106      * @author 221701412_theTuring
107      * @version v 1.0.0
108      * @since 2020.5.6
109      */
110     @Test
111     public void testChangePassword(){
112
113         String account = "221701412";
114         String password = "test666";
115         String newPassword = "test666";
116
117         // 加密
118         byte[] secretArr = DesEncryption.encryptMode(password.getBytes());
119         String str = byte2Hex(secretArr);
120
121         String result = userService.changePassword(account,str,newPassword);
122         String expected = "succeed";
123
124         Assert.assertEquals(expected,result);
125     }
126 }
```

## 运行结果

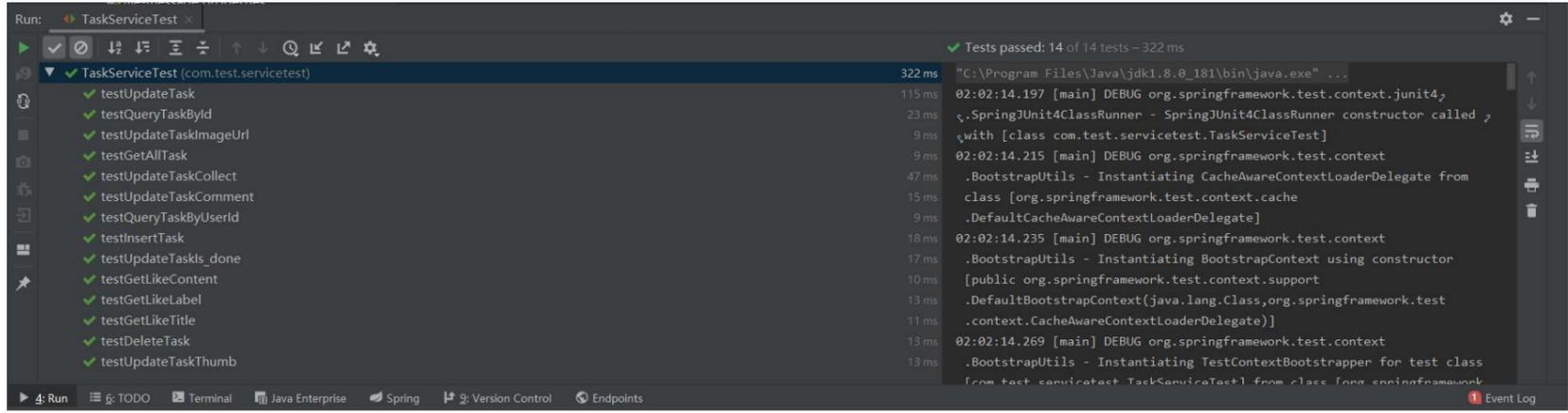


## 3. 任务服务层测试

### 代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [C:\Users\Z&C\Desktop\SchoolMustardSpace\Java\SchoolMustardSpace-Java] - ...\TaskServiceTest.java
SchoolMustardSpace-Java src main java com test servicetest TaskServiceTest MustardSpaceApplication Git
Project SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolM...
External Libraries
Scratches and Consoles
1 package com.test.servicetest;
2
3 import com.springboot.MustardSpaceApplication;
4 import com.springboot.domain.Task;
5 import com.springboot.service.TaskService;
6 import org.junit.Assert;
7 import org.junit.Test;
8 import org.junit.runner.RunWith;
9 import org.springframework.beans.factory.annotation.Autowired;
10 import org.springframework.boot.test.context.SpringBootTest;
11 import org.springframework.test.context.junit4.SpringRunner;
12
13 import java.util.List;
14
15 /**
16  * @author 会飞的大野鸡
17  * @create 2020/5/7
18  * TODO:
19  */
20
21
22 @RunWith(SpringRunner.class)
23 @SpringBootTest(classes = {MustardSpaceApplication.class})
24 public class TaskServiceTest {
25
26     @Autowired
27     private TaskService taskService;
28
29     /**
30      * testGetAllTask
31      * TODO
32      * @description testGetAllTask
33      * @author 221701412_theTuring
34      * @version v 1.0.0
35      * @since 2020.5.6
36      */
37     @Test
38     public void testGetAllTask(){
39
40         List<Task> list = taskService.getAllTask();
41
42         Assert.assertNotNull(list);
43     }
44
45     /**
46      * testGetAllTask
47      * TODO
48      * @description testQueryTaskById
49      * @author 221701412_theTuring
50      * @version v 1.0.0
51      * @since 2020.5.6
52      */
53     @Test
54     public void testQueryTaskById(){
55
56         String id = "10c6512b-6681-4b7a-a038-bb8367ea80f4";
57
58         Task task = taskService.queryTaskById(id);
59
60         Assert.assertNotNull(task);
61     }
62
63     /**
64      * testQueryTaskByUserId
65      * TODO
66      * @description testQueryTaskByUserId
67      * @author 221701412_theTuring
68      * @version v 1.0.0
69      * @since 2020.5.6
70      */
71     @Test
72     public void testQueryTaskByUserId(){
73
74         String id = "10c6512b-6681-4b7a-a038-bb8367ea80f4";
75
76         List<Task> list = taskService.queryTaskByUserId(id);
77
78         Assert.assertNotNull(list);
79     }
80
81     /**
82      * testGetLikeContent
83      * TODO
84      * @description testGetLikeContent
85      * @author 221701412_theTuring
86      * @version v 1.0.0
87      * @since 2020.5.6
88      */
89     @Test
90     public void testGetLikeContent(){
91
92         String content = "test";
93
94         List<Task> list = taskService.getLikeContent(content);
95
96         Assert.assertNotNull(list);
97     }
98
99     /**
100      * testGetLikeTitle
101      * TODO
102      * @description testGetLikeTitle
103      * @author 221701412_theTuring
104      * @version v 1.0.0
105      * @since 2020.5.6
106      */
107     @Test
108     public void testGetLikeTitle(){
109
110         String title = "test";
111
112         List<Task> list = taskService.getLikeTitle(title);
113
114         Assert.assertNotNull(list);
115     }
116
117     /**
118      * testGetLikeLabel
119      * TODO
120      * @description testGetLikeLabel
121      * @author 221701412_theTuring
122      * @version v 1.0.0
123      * @since 2020.5.6
124      */
125     @Test
126     public void testGetLikeLabel(){
127
128         String label = "test";
129
130         List<Task> list = taskService.getLikeLabel(label);
131
132         Assert.assertNotNull(list);
133     }
134
135     /**
136      * testGetLikeContent
137      * TODO
138      * @description testGetLikeContent
139      * @author 221701412_theTuring
140      * @version v 1.0.0
141      * @since 2020.5.6
142      */
143     @Test
144     public void testGetLikeContent2(){
145
146         String content = "test";
147
148         List<Task> list = taskService.getLikeContent2(content);
149
150         Assert.assertNotNull(list);
151     }
152
153     /**
154      * testGetLikeTitle
155      * TODO
156      * @description testGetLikeTitle
157      * @author 221701412_theTuring
158      * @version v 1.0.0
159      * @since 2020.5.6
160      */
161     @Test
162     public void testGetLikeTitle2(){
163
164         String title = "test";
165
166         List<Task> list = taskService.getLikeTitle2(title);
167
168         Assert.assertNotNull(list);
169     }
170
171     /**
172      * testGetLikeLabel
173      * TODO
174      * @description testGetLikeLabel
175      * @author 221701412_theTuring
176      * @version v 1.0.0
177      * @since 2020.5.6
178      */
179     @Test
180     public void testGetLikeLabel2(){
181
182         String label = "test";
183
184         List<Task> list = taskService.getLikeLabel2(label);
185
186         Assert.assertNotNull(list);
187     }
188
189     /**
190      * testGetLikeContent
191      * TODO
192      * @description testGetLikeContent
193      * @author 221701412_theTuring
194      * @version v 1.0.0
195      * @since 2020.5.6
196      */
197     @Test
198     public void testGetLikeContent3(){
199
200         String content = "test";
201
202         List<Task> list = taskService.getLikeContent3(content);
203
204         Assert.assertNotNull(list);
205     }
206
207     /**
208      * testGetLikeTitle
209      * TODO
210      * @description testGetLikeTitle
211      * @author 221701412_theTuring
212      * @version v 1.0.0
213      * @since 2020.5.6
214      */
215     @Test
216     public void testGetLikeTitle3(){
217
218         String title = "test";
219
220         List<Task> list = taskService.getLikeTitle3(title);
221
222         Assert.assertNotNull(list);
223     }
224
225     /**
226      * testGetLikeLabel
227      * TODO
228      * @description testGetLikeLabel
229      * @author 221701412_theTuring
230      * @version v 1.0.0
231      * @since 2020.5.6
232      */
233     @Test
234     public void testGetLikeLabel3(){
235
236         String label = "test";
237
238         List<Task> list = taskService.getLikeLabel3(label);
239
240         Assert.assertNotNull(list);
241     }
242
243     /**
244      * testGetLikeContent
245      * TODO
246      * @description testGetLikeContent
247      * @author 221701412_theTuring
248      * @version v 1.0.0
249      * @since 2020.5.6
250      */
251     @Test
252     public void testGetLikeContent4(){
253
254         String content = "test";
255
256         List<Task> list = taskService.getLikeContent4(content);
257
258         Assert.assertNotNull(list);
259     }
260
261     /**
262      * testGetLikeTitle
263      * TODO
264      * @description testGetLikeTitle
265      * @author 221701412_theTuring
266      * @version v 1.0.0
267      * @since 2020.5.6
268      */
269     @Test
270     public void testGetLikeTitle4(){
271
272         String title = "test";
273
274         List<Task> list = taskService.getLikeTitle4(title);
275
276         Assert.assertNotNull(list);
277     }
278
279     /**
280      * testGetLikeLabel
281      * TODO
282      * @description testGetLikeLabel
283      * @author 221701412_theTuring
284      * @version v 1.0.0
285      * @since 2020.5.6
286      */
287     @Test
288     public void testGetLikeLabel4(){
289
290         String label = "test";
291
292         List<Task> list = taskService.getLikeLabel4(label);
293
294         Assert.assertNotNull(list);
295     }
296
297     /**
298      * testGetLikeContent
299      * TODO
300      * @description testGetLikeContent
301      * @author 221701412_theTuring
302      * @version v 1.0.0
303      * @since 2020.5.6
304      */
305     @Test
306     public void testGetLikeContent5(){
307
308         String content = "test";
309
310         List<Task> list = taskService.getLikeContent5(content);
311
312         Assert.assertNotNull(list);
313     }
314
315     /**
316      * testGetLikeTitle
317      * TODO
318      * @description testGetLikeTitle
319      * @author 221701412_theTuring
320      * @version v 1.0.0
321      * @since 2020.5.6
322      */
323     @Test
324     public void testGetLikeTitle5(){
325
326         String title = "test";
327
328         List<Task> list = taskService.getLikeTitle5(title);
329
330         Assert.assertNotNull(list);
331     }
332
333     /**
334      * testGetLikeLabel
335      * TODO
336      * @description testGetLikeLabel
337      * @author 221701412_theTuring
338      * @version v 1.0.0
339      * @since 2020.5.6
340      */
341     @Test
342     public void testGetLikeLabel5(){
343
344         String label = "test";
345
346         List<Task> list = taskService.getLikeLabel5(label);
347
348         Assert.assertNotNull(list);
349     }
350
351     /**
352      * testGetLikeContent
353      * TODO
354      * @description testGetLikeContent
355      * @author 221701412_theTuring
356      * @version v 1.0.0
357      * @since 2020.5.6
358      */
359     @Test
360     public void testGetLikeContent6(){
361
362         String content = "test";
363
364         List<Task> list = taskService.getLikeContent6(content);
365
366         Assert.assertNotNull(list);
367     }
368
369     /**
370      * testGetLikeTitle
371      * TODO
372      * @description testGetLikeTitle
373      * @author 221701412_theTuring
374      * @version v 1.0.0
375      * @since 2020.5.6
376      */
377     @Test
378     public void testGetLikeTitle6(){
379
380         String title = "test";
381
382         List<Task> list = taskService.getLikeTitle6(title);
383
384         Assert.assertNotNull(list);
385     }
386
387     /**
388      * testGetLikeLabel
389      * TODO
390      * @description testGetLikeLabel
391      * @author 221701412_theTuring
392      * @version v 1.0.0
393      * @since 2020.5.6
394      */
395     @Test
396     public void testGetLikeLabel6(){
397
398         String label = "test";
399
400         List<Task> list = taskService.getLikeLabel6(label);
401
402         Assert.assertNotNull(list);
403     }
404
405     /**
406      * testGetLikeContent
407      * TODO
408      * @description testGetLikeContent
409      * @author 221701412_theTuring
410      * @version v 1.0.0
411      * @since 2020.5.6
412      */
413     @Test
414     public void testGetLikeContent7(){
415
416         String content = "test";
417
418         List<Task> list = taskService.getLikeContent7(content);
419
420         Assert.assertNotNull(list);
421     }
422
423     /**
424      * testGetLikeTitle
425      * TODO
426      * @description testGetLikeTitle
427      * @author 221701412_theTuring
428      * @version v 1.0.0
429      * @since 2020.5.6
430      */
431     @Test
432     public void testGetLikeTitle7(){
433
434         String title = "test";
435
436         List<Task> list = taskService.getLikeTitle7(title);
437
438         Assert.assertNotNull(list);
439     }
440
441     /**
442      * testGetLikeLabel
443      * TODO
444      * @description testGetLikeLabel
445      * @author 221701412_theTuring
446      * @version v 1.0.0
447      * @since 2020.5.6
448      */
449     @Test
450     public void testGetLikeLabel7(){
451
452         String label = "test";
453
454         List<Task> list = taskService.getLikeLabel7(label);
455
456         Assert.assertNotNull(list);
457     }
458
459     /**
460      * testGetLikeContent
461      * TODO
462      * @description testGetLikeContent
463      * @author 221701412_theTuring
464      * @version v 1.0.0
465      * @since 2020.5.6
466      */
467     @Test
468     public void testGetLikeContent8(){
469
470         String content = "test";
471
472         List<Task> list = taskService.getLikeContent8(content);
473
474         Assert.assertNotNull(list);
475     }
476
477     /**
478      * testGetLikeTitle
479      * TODO
480      * @description testGetLikeTitle
481      * @author 221701412_theTuring
482      * @version v 1.0.0
483      * @since 2020.5.6
484      */
485     @Test
486     public void testGetLikeTitle8(){
487
488         String title = "test";
489
490         List<Task> list = taskService.getLikeTitle8(title);
491
492         Assert.assertNotNull(list);
493     }
494
495     /**
496      * testGetLikeLabel
497      * TODO
498      * @description testGetLikeLabel
499      * @author 221701412_theTuring
500      * @version v 1.0.0
501      * @since 2020.5.6
502      */
503     @Test
504     public void testGetLikeLabel8(){
505
506         String label = "test";
507
508         List<Task> list = taskService.getLikeLabel8(label);
509
510         Assert.assertNotNull(list);
511     }
512
513     /**
514      * testGetLikeContent
515      * TODO
516      * @description testGetLikeContent
517      * @author 221701412_theTuring
518      * @version v 1.0.0
519      * @since 2020.5.6
520      */
521     @Test
522     public void testGetLikeContent9(){
523
524         String content = "test";
525
526         List<Task> list = taskService.getLikeContent9(content);
527
528         Assert.assertNotNull(list);
529     }
530
531     /**
532      * testGetLikeTitle
533      * TODO
534      * @description testGetLikeTitle
535      * @author 221701412_theTuring
536      * @version v 1.0.0
537      * @since 2020.5.6
538      */
539     @Test
540     public void testGetLikeTitle9(){
541
542         String title = "test";
543
544         List<Task> list = taskService.getLikeTitle9(title);
545
546         Assert.assertNotNull(list);
547     }
548
549     /**
550      * testGetLikeLabel
551      * TODO
552      * @description testGetLikeLabel
553      * @author 221701412_theTuring
554      * @version v 1.0.0
555      * @since 2020.5.6
556      */
557     @Test
558     public void testGetLikeLabel9(){
559
560         String label = "test";
561
562         List<Task> list = taskService.getLikeLabel9(label);
563
564         Assert.assertNotNull(list);
565     }
566
567     /**
568      * testGetLikeContent
569      * TODO
570      * @description testGetLikeContent
571      * @author 221701412_theTuring
572      * @version v 1.0.0
573      * @since 2020.5.6
574      */
575     @Test
576     public void testGetLikeContent10(){
577
578         String content = "test";
579
580         List<Task> list = taskService.getLikeContent10(content);
581
582         Assert.assertNotNull(list);
583     }
584
585     /**
586      * testGetLikeTitle
587      * TODO
588      * @description testGetLikeTitle
589      * @author 221701412_theTuring
590      * @version v 1.0.0
591      * @since 2020.5.6
592      */
593     @Test
594     public void testGetLikeTitle10(){
595
596         String title = "test";
597
598         List<Task> list = taskService.getLikeTitle10(title);
599
600         Assert.assertNotNull(list);
601     }
602
603     /**
604      * testGetLikeLabel
605      * TODO
606      * @description testGetLikeLabel
607      * @author 221701412_theTuring
608      * @version v 1.0.0
609      * @since 2020.5.6
610      */
611     @Test
612     public void testGetLikeLabel10(){
613
614         String label = "test";
615
616         List<Task> list = taskService.getLikeLabel10(label);
617
618         Assert.assertNotNull(list);
619     }
620
621     /**
622      * testGetLikeContent
623      * TODO
624      * @description testGetLikeContent
625      * @author 221701412_theTuring
626      * @version v 1.0.0
627      * @since 2020.5.6
628      */
629     @Test
630     public void testGetLikeContent11(){
631
632         String content = "test";
633
634         List<Task> list = taskService.getLikeContent11(content);
635
636         Assert.assertNotNull(list);
637     }
638
639     /**
640      * testGetLikeTitle
641      * TODO
642      * @description testGetLikeTitle
643      * @author 221701412_theTuring
644      * @version v 1.0.0
645      * @since 2020.5.6
646      */
647     @Test
648     public void testGetLikeTitle11(){
649
650         String title = "test";
651
652         List<Task> list = taskService.getLikeTitle11(title);
653
654         Assert.assertNotNull(list);
655     }
656
657     /**
658      * testGetLikeLabel
659      * TODO
660      * @description testGetLikeLabel
661      * @author 221701412_theTuring
662      * @version v 1.0.0
663      * @since 2020.5.6
664      */
665     @Test
666     public void testGetLikeLabel11(){
667
668         String label = "test";
669
670         List<Task> list = taskService.getLikeLabel11(label);
671
672         Assert.assertNotNull(list);
673     }
674
675     /**
676      * testGetLikeContent
677      * TODO
678      * @description testGetLikeContent
679      * @author 221701412_theTuring
680      * @version v 1.0.0
681      * @since 2020.5.6
682      */
683     @Test
684     public void testGetLikeContent12(){
685
686         String content = "test";
687
688         List<Task> list = taskService.getLikeContent12(content);
689
690         Assert.assertNotNull(list);
691     }
692
693     /**
694      * testGetLikeTitle
695      * TODO
696      * @description testGetLikeTitle
697      * @author 221701412_theTuring
698      * @version v 1.0.0
699      * @since 2020.5.6
700      */
701     @Test
702     public void testGetLikeTitle12(){
703
704         String title = "test";
705
706         List<Task> list = taskService.getLikeTitle12(title);
707
708         Assert.assertNotNull(list);
709     }
710
711     /**
712      * testGetLikeLabel
713      * TODO
714      * @description testGetLikeLabel
715      * @author 221701412_theTuring
716      * @version v 1.0.0
717      * @since 2020.5.6
718      */
719     @Test
720     public void testGetLikeLabel12(){
721
722         String label = "test";
723
724         List<Task> list = taskService.getLikeLabel12(label);
725
726         Assert.assertNotNull(list);
727     }
728
729     /**
730      * testGetLikeContent
731      * TODO
732      * @description testGetLikeContent
733      * @author 221701412_theTuring
734      * @version v 1.0.0
735      * @since 2020.5.6
736      */
737     @Test
738     public void testGetLikeContent13(){
739
740         String content = "test";
741
742         List<Task> list = taskService.getLikeContent13(content);
743
744         Assert.assertNotNull(list);
745     }
746
747     /**
748      * testGetLikeTitle
749      * TODO
750      * @description testGetLikeTitle
751      * @author 221701412_theTuring
752      * @version v 1.0.0
753      * @since 2020.5.6
754      */
755     @Test
756     public void testGetLikeTitle13(){
757
758         String title = "test";
759
760         List<Task> list = taskService.getLikeTitle13(title);
761
762         Assert.assertNotNull(list);
763     }
764
765     /**
766      * testGetLikeLabel
767      * TODO
768      * @description testGetLikeLabel
769      * @author 221701412_theTuring
770      * @version v 1.0.0
771      * @since 2020.5.6
772      */
773     @Test
774     public void testGetLikeLabel13(){
775
776         String label = "test";
777
778         List<Task> list = taskService.getLikeLabel13(label);
779
780         Assert.assertNotNull(list);
781     }
782
783     /**
784      * testGetLikeContent
785      * TODO
786      * @description testGetLikeContent
787      * @author 221701412_theTuring
788      * @version v 1.0.0
789      * @since 2020.5.6
790      */
791     @Test
792     public void testGetLikeContent14(){
793
794         String content = "test";
795
796         List<Task> list = taskService.getLikeContent14(content);
797
798         Assert.assertNotNull(list);
799     }
800
801     /**
802      * testGetLikeTitle
803      * TODO
804      * @description testGetLikeTitle
805      * @author 221701412_theTuring
806      * @version v 1.0.0
807      * @since 2020.5.6
808      */
809     @Test
810     public void testGetLikeTitle14(){
811
812         String title = "test";
813
814         List<Task> list = taskService.getLikeTitle14(title);
815
816         Assert.assertNotNull(list);
817     }
818
819     /**
820      * testGetLikeLabel
821      * TODO
822      * @description testGetLikeLabel
823      * @author 221701412_theTuring
824      * @version v 1.0.0
825      * @since 2020.5.6
826      */
827     @Test
828     public void testGetLikeLabel14(){
829
830         String label = "test";
831
832         List<Task> list = taskService.getLikeLabel14(label);
833
834         Assert.assertNotNull(list);
835     }
836
837     /**
838      * testGetLikeContent
839      * TODO
840      * @description testGetLikeContent
841      * @author 221701412_theTuring
842      * @version v 1.0.0
843      * @since 2020.5.6
844      */
845     @Test
846     public void testGetLikeContent15(){
847
848         String content = "test";
849
850         List<Task> list = taskService.getLikeContent15(content);
851
852         Assert.assertNotNull(list);
853     }
854
855     /**
856      * testGetLikeTitle
857      * TODO
858      * @description testGetLikeTitle
859      * @author 221701412_theTuring
860      * @version v 1.0.0
861      * @since 2020.5.6
862      */
863     @Test
864     public void testGetLikeTitle15(){
865
866         String title = "test";
867
868         List<Task> list = taskService.getLikeTitle15(title);
869
870         Assert.assertNotNull(list);
871     }
872
873     /**
874      * testGetLikeLabel
875      * TODO
876      * @description testGetLikeLabel
877      * @author 221701412_theTuring
878      * @version v 1.0.0
879      * @since 2020.5.6
880      */
881     @Test
882     public void testGetLikeLabel15(){
883
884         String label = "test";
885
886         List<Task> list = taskService.getLikeLabel15(label);
887
888         Assert.assertNotNull(list);
889     }
890
891     /**
892      * testGetLikeContent
893      * TODO
894      * @description testGetLikeContent
895      * @author 221701412_theTuring
896      * @version v 1.0.0
897      * @since 2020.5.6
898      */
899     @Test
900     public void testGetLikeContent16(){
901
902         String content = "test";
903
904         List<Task> list = taskService.getLikeContent16(content);
905
906         Assert.assertNotNull(list);
907     }
908
909     /**
910      * testGetLikeTitle
911      * TODO
912      * @description testGetLikeTitle
913      * @author 221701412_theTuring
914      * @version v 1.0.0
915      * @since 2020.5.6
916      */
917     @Test
918     public void testGetLikeTitle16(){
919
920         String title = "test";
921
922         List<Task> list = taskService.getLikeTitle16(title);
923
924         Assert.assertNotNull(list);
925     }
926
927     /**
928      * testGetLikeLabel
929      * TODO
930      * @description testGetLikeLabel
931      * @author 221701412_theTuring
932      * @version v 1.0.0
933      * @since 2020.5.6
934      */
935     @Test
936     public void testGetLikeLabel16(){
937
938         String label = "test";
939
940         List<Task> list = taskService.getLikeLabel16(label);
941
942         Assert.assertNotNull(list);
943     }
944
945     /**
946      * testGetLikeContent
947      * TODO
948      * @description testGetLikeContent
949      * @author 221701412_theTuring
950      * @version v 1.0.0
951      * @since 2020.5.6
952      */
953     @Test
954     public void testGetLikeContent17(){
955
956         String content = "test";
957
958         List<Task> list = taskService.getLikeContent17(content);
959
960         Assert.assertNotNull(list);
961     }
962
963     /**
964      * testGetLikeTitle
965      * TODO
966      * @description testGetLikeTitle
967      * @author 221701412_theTuring
968      * @version v 1.0.0
969      * @since 2020.5.6
970      */
971     @Test
972     public void testGetLikeTitle17(){
973
974         String title = "test";
975
976         List<Task> list = taskService.getLikeTitle17(title);
977
978         Assert.assertNotNull(list);
979     }
980
981     /**
982      * testGetLikeLabel
983      * TODO
984      * @description testGetLikeLabel
985      * @author 221701412_theTuring
986      * @version v 1.0.0
987      * @since 2020.5.6
988      */
989     @Test
990     public void testGetLikeLabel17(){
991
992         String label = "test";
993
994         List<Task> list = taskService.getLikeLabel17(label);
995
996         Assert.assertNotNull(list);
997     }
998
999     /**
1000      * testGetLikeContent
1001      * TODO
1002      * @description testGetLikeContent
1003      * @author 221701412_theTuring
1004      * @version v 1.0.0
1005      * @since 2020.5.6
1006      */
1007     @Test
1008     public void testGetLikeContent18(){
1009
1010         String content = "test";
1011
1012         List<Task> list = taskService.getLikeContent18(content);
1013
1014         Assert.assertNotNull(list);
1015     }
1016
1017     /**
1018      * testGetLikeTitle
1019      * TODO
1020      * @description testGetLikeTitle
1021      * @author 221701412_theTuring
1022      * @version v 1.0.0
1023      * @since 2020.5.6
1024      */
1025     @Test
1026     public void testGetLikeTitle18(){
1027
1028         String title = "test";
1029
1030         List<Task> list = taskService.getLikeTitle18(title);
1031
1032         Assert.assertNotNull(list);
1033     }
1034
1035     /**
1036      * testGetLikeLabel
1037      * TODO
1038      * @description testGetLikeLabel
1039      * @author 221701412_theTuring
1040      * @version v 1.0.0
1041      * @since 2020.5.6
1042      */
1043     @Test
1044     public void testGetLikeLabel18(){
1045
1046         String label = "test";
1047
1048         List<Task> list = taskService.getLikeLabel18(label);
1049
1050         Assert.assertNotNull(list);
1051     }
1052
1053     /**
1054      * testGetLikeContent
1055      * TODO
1056      * @description testGetLikeContent
1057      * @author 221701412_theTuring
1058      * @version v 1.0.0
1059      * @since 2020.5.6
1060      */
1061     @Test
1062     public void testGetLikeContent19(){
1063
1064         String content = "test";
1065
1066         List<Task> list = taskService.getLikeContent19(content);
1067
1068         Assert.assertNotNull(list);
1069     }
1070
1071     /**
1072      * testGetLikeTitle
1073      * TODO
1074      * @description testGetLikeTitle
1075      * @author 221701412_theTuring
1076      * @version v 1.0.0
1077      * @since 2020.5.6
1078      */
1079     @Test
1080     public void testGetLikeTitle19(){
1081
1082         String title = "test";
1083
1084         List<Task> list = taskService.getLikeTitle19(title);
1085
1086         Assert.assertNotNull(list);
1087     }
1088
1089     /**
1090      * testGetLikeLabel
1091      * TODO
1092      * @description testGetLikeLabel
1093      * @author 221701412_theTuring
1094      * @version v 1.0.0
1095      * @since 2020.5.6
1096      */
1097     @Test
1098     public void testGetLikeLabel19(){
1099
1100         String label = "test";
1101
1102         List<Task> list = taskService.getLikeLabel19(label);
1103
1104         Assert.assertNotNull(list);
1105     }
1106
1107     /**
1108      * testGetLikeContent
1109      * TODO
1110      * @description testGetLikeContent
1111      * @author 221701412_theTuring
1112      * @version v 1.0.0
1113      * @since 2020.5.6
1114      */
1115     @Test
1116     public void testGetLikeContent20(){
1117
1118         String content = "test";
1119
1120         List<Task> list = taskService.getLikeContent20(content);
1121
1122         Assert.assertNotNull(list);
1123     }
1124
1125     /**
1126      * testGetLikeTitle
1127      * TODO
1128      * @description testGetLikeTitle
1129      * @author 221701412_theTuring
1130      * @version v 1.0.0
1131      * @since 2020.5.6
1132      */
1133     @Test
1134     public void testGetLikeTitle20(){
1135
1136         String title = "test";
1137
1138         List<Task> list = taskService.getLikeTitle20(title);
1139
1140         Assert.assertNotNull(list);
1141     }
1142
1143     /**
1144      * testGetLikeLabel
1145      * TODO
1146      * @description testGetLikeLabel
1147      * @author 221701412_theTuring
1148      * @version v 1.0.0
1149      * @since 2020.5.6
1150      */
1151     @Test
1152     public void testGetLikeLabel20(){
1153
1154         String label = "test";
1155
1156         List<Task> list = taskService.getLikeLabel20(label);
1157
1158         Assert.assertNotNull(list);
1159     }
1160
1161     /**
1162      * testGetLikeContent
1163      * TODO
1164      * @description testGetLikeContent
1165      * @author 221701412_theTuring
1166      * @version v 1.0.0
1167      * @since 2020.5.6
1168      */
1169     @Test
1170     public void testGetLikeContent21(){
1171
1172         String content = "test";
1173
1174         List<Task> list = taskService.getLikeContent21(content);
1175
1176         Assert.assertNotNull(list);
1177     }
1178
1179     /**
1180      * testGetLikeTitle
1181      * TODO
1182      * @description testGetLikeTitle
1183      * @author 221701412_theTuring
1184      * @version v 1.0.0
1185      * @since 2020.5.6
1186      */
1187     @Test
1188     public void testGetLikeTitle21(){
1189
1190         String title = "test";
1191
1192         List<Task> list = taskService.getLikeTitle21(title);
1193
1194         Assert.assertNotNull(list);
1195     }
1196
1197     /**
1198      * testGetLikeLabel
1199      * TODO
1200      * @description testGetLikeLabel
1201      * @author 221701412_theTuring
1202      * @version v 1.0.0
1203      * @since 2020.5.6
1204      */
1205     @Test
1206     public void testGetLikeLabel21(){
1207
1208         String label = "test";
1209
1210         List<Task> list = taskService.getLikeLabel21(label);
1211
1212         Assert.assertNotNull(list);
1213     }
1214
1215     /**
1216      * testGetLikeContent
1217      * TODO
1218      * @description testGetLikeContent
1219      * @author 221701412_theTuring
1220      * @version v 1.0.0
1221      * @since 2020.5.6
12
```

## 运行结果

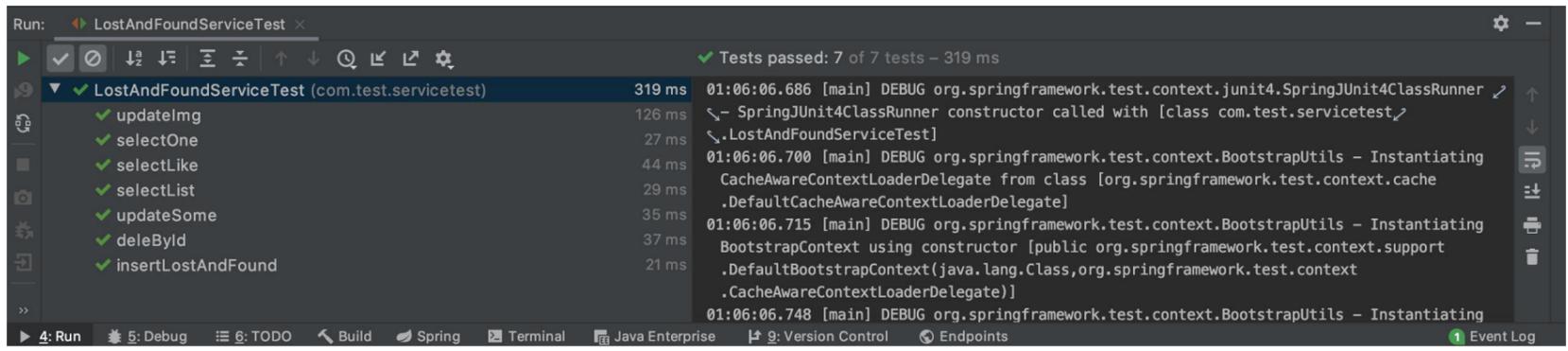


## 4. 失物招领服务层测试

### 代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [...\Desktop\SchoolMustardSpace-Java\SchoolMustardSpace-Java] - ...\LostAndFoundServiceTest.java
SchoolMustardSpace-Java src main java com test servicetest LostAndFoundServiceTest MustardSpaceApplication
SchoolMustardSpace-Java C:\Users\Z\C\Desktop\SchoolMu
External Libraries
Scratches and Consoles
LostAndFoundServiceTest.java DesEncryptionTest.java UriCodeTest.java UuidResultTest.java TaskServiceTest.java CommentServiceTest.java
package com.test.servicetest;
import com.springboot.MustardSpaceApplication;
import com.springboot.domain.LostAndFound;
import com.springboot.mapper.LostAndFoundMapper;
import com.springboot.service.LostAndFoundService;
import com.springboot.utils.datetool.DateResult;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringRunner;
import java.util.LinkedList;
import java.util.List;
import java.util.UUID;
/**
 * @author 会飞的大野鸡
 * @create 2020/5/7
 * TODO:
 */
@RunWith(SpringRunner.class)
@SpringBootTest(classes = {MustardSpaceApplication.class})
public class LostAndFoundServiceTest {
    @Autowired
    private LostAndFoundService lostAndFoundService;
    @Test
    public void insertLostAndFound(){
        LostAndFound lostAndFound = new LostAndFound();
        lostAndFound.setId(UUID.randomUUID().toString());
        lostAndFound.setUserid(1);
        lostAndFound.setTitle("asd");
        lostAndFound.setContent("asd");
        lostAndFound.setImage("asd");
        lostAndFound.setLabel("asd");
        lostAndFound.setLocation("asd");
        lostAndFound.setTime(new DateResult().getCurrentTime());
        lostAndFound.setIsLost(11);
        String msg = lostAndFoundService.insertLostAndFound(lostAndFound);
        Assert.assertEquals(msg, "succeed");
    }
    @Test
    public void updateSome(){
        String msg1 = lostAndFoundService.updateSome( choice: 1, id: "2f50029a-8335-4a19-b971-f37c0aa07c34");
        String msg2 = lostAndFoundService.updateSome( choice: 2, id: "2f50029a-8335-4a19-b971-f37c0aa07c34");
        String msg3 = lostAndFoundService.updateSome( choice: 3, id: "2f50029a-8335-4a19-b971-f37c0aa07c34");
        String msg4 = lostAndFoundService.updateSome( choice: 4, id: "2f50029a-8335-4a19-b971-f37c0aa07c34");
        Assert.assertEquals(msg1, "succeed");
        Assert.assertEquals(msg2, "succeed");
        Assert.assertEquals(msg3, "succeed");
        Assert.assertEquals(msg4, "succeed");
    }
    @Test
    public void deleteById(){
        LostAndFound lostAndFound = new LostAndFound();
        String id = UUID.randomUUID().toString();
        lostAndFound.setId(id);
        lostAndFound.setUserid(1);
        lostAndFound.setTitle("asd");
        lostAndFound.setContent("asd");
        lostAndFound.setImage("asd");
        lostAndFound.setLabel("asd");
        lostAndFound.setLocation("asd");
        lostAndFound.setTime(new DateResult().getCurrentTime());
        lostAndFound.setIsLost(11);
        lostAndFoundService.insertLostAndFound(lostAndFound);
        String msg = lostAndFoundService.deleteById(id);
        Assert.assertEquals(msg, "succeed");
    }
    @Test
    public void selectList(){
        List<LostAndFound> lostAndFound = lostAndFoundService.selectList( choice: 1, userid: 1);
        List<LostAndFound> lostAndFound1 = lostAndFoundService.selectList( choice: 2, userid: 1);
        Assert.assertNotNull(lostAndFound);
        Assert.assertNotNull(lostAndFound1);
    }
    @Test
    public void selectOne(){
        String id = "2f50029a-8335-4a19-b971-f37c0aa07c34";
        LostAndFound lostAndFound = new LostAndFound();
        lostAndFound = null;
        lostAndFound = lostAndFoundService.selectOne(id);
        Assert.assertNotNull(lostAndFound);
    }
    @Test
    public void selectLike(){
        List<LostAndFound> lostAndFound = new LinkedList<>();
        List<LostAndFound> lostAndFound1 = new LinkedList<>();
        List<LostAndFound> lostAndFound2 = new LinkedList<>();
        lostAndFound = null; lostAndFound1 = null; lostAndFound2 = null;
        lostAndFound = lostAndFoundService.selectLike( choice: 1, text: "a");
        lostAndFound1 = lostAndFoundService.selectLike( choice: 2, text: "a");
        lostAndFound2 = lostAndFoundService.selectLike( choice: 3, text: "a");
        Assert.assertNotNull(lostAndFound);
        Assert.assertNotNull(lostAndFound1);
        Assert.assertNotNull(lostAndFound2);
    }
    @Test
    public void updateImg(){
        int num = lostAndFoundService.updateImg( image: "asd", id: "2f50029a-8335-4a19-b971-f37c0aa07c34");
        Assert.assertEquals( expected: 1, num);
    }
}
LostAndFoundServiceTest
6: TODO Build Terminal Java Enterprise Spring Version Control Endpoints
27:14 LF UTF-8 4 spaces Git: dev hxd
```

## 运行结果



## 5. 物品租赁服务层测试

### 代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [...] Desktop\SchoolMustardSpace-Java\SchoolMustardSpace-Java - ... \RentalOfGoodServiceTest.java
SchoolMustardSpace-Java src main java com test servicetest RentalOfGoodServiceTest MustardSpaceApplication
SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolMu
External Libraries
Scratches and Consoles
package com.test.servicetest;

import com.springboot.MustardSpaceApplication;
import com.springboot.domain.RentalOfGood;
import com.springboot.service.RentalOfGoodService;
import org.junit.Assert;
import org.junit.Test;
import org.junit.runner.RunWith;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.boot.test.context.SpringBootTest;
import org.springframework.test.context.junit4.SpringRunner;

import java.util.LinkedList;
import java.util.List;
import java.util.UUID;

/**
 * @author 会飞的大野鸡
 * @create 2020/5/7
 * TODO:
 */

@RunWith(SpringRunner.class)
@SpringBootTest(classes = {MustardSpaceApplication.class})
public class RentalOfGoodServiceTest {

    @Autowired
    private RentalOfGoodService rentalOfGoodService;

    @Test
    public void insertRentalOfGood(){
        String uuid = UUID.randomUUID().toString();
        RentalOfGood rentalOfGood = new RentalOfGood();
        rentalOfGood.setId(uuid);
        rentalOfGood.setUser(1);
        rentalOfGood.setTitle("title");
        rentalOfGood.setContent("content");
        rentalOfGood.setImage("image");
        rentalOfGood.setLabel("label");
        rentalOfGood.setLocation("location");
        rentalOfGood.setUnitPrice("unitPrice");
        rentalOfGood.setStartTime("startTime");
        rentalOfGood.setEndTime("endTime");
        rentalOfGood.setNewDegree(95);
        String msg = rentalOfGoodService.insertRentalOfGood(rentalOfGood);
        Assert.assertEquals(msg, "succeed");
    }

    @Test
    public void insertTime(){
        String msg1 = rentalOfGoodService.insertTime(1, id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        String msg2 = rentalOfGoodService.insertTime(2, id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        Assert.assertEquals(msg1, "succeed");
        Assert.assertEquals(msg2, "succeed");
    }

    @Test
    public void updateSome(){
        String msg1 = rentalOfGoodService.updateSome(1, id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        String msg2 = rentalOfGoodService.updateSome(2, id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        String msg3 = rentalOfGoodService.updateSome(3, id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        String msg4 = rentalOfGoodService.updateSome(4, id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        Assert.assertEquals(msg1, "succeed");
        Assert.assertEquals(msg2, "succeed");
        Assert.assertEquals(msg3, "succeed");
        Assert.assertEquals(msg4, "succeed");
    }

    @Test
    public void deleteById(){
        String uuid = UUID.randomUUID().toString();
        RentalOfGood rentalOfGood = new RentalOfGood();
        rentalOfGood.setId(uuid);
        rentalOfGood.setUser(1);
        rentalOfGood.setTitle("title");
        rentalOfGood.setContent("content");
        rentalOfGood.setImage("image");
        rentalOfGood.setLabel("label");
        rentalOfGood.setLocation("location");
        rentalOfGood.setUnitPrice("unitPrice");
        rentalOfGood.setStartTime("startTime");
        rentalOfGood.setEndTime("endTime");
        rentalOfGood.setNewDegree(95);
        rentalOfGoodService.insertRentalOfGood(rentalOfGood);
        String msg = rentalOfGoodService.deleteById(uuid);
        Assert.assertEquals(msg, "succeed");
    }

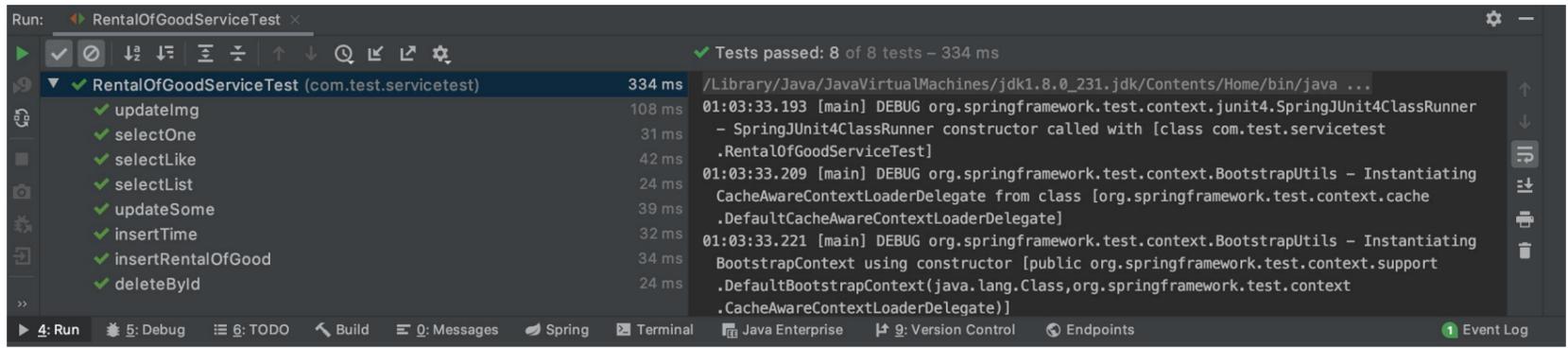
    @Test
    public void selectList(){
        List<RentalOfGood> rentalOfGoods = new LinkedList<>();
        List<RentalOfGood> rentalOfGoods1 = new LinkedList<>();
        rentalOfGoods = null; rentalOfGoods1 = null;
        rentalOfGoods = rentalOfGoodService.selectList(1, 1);
        rentalOfGoods1 = rentalOfGoodService.selectList(1, 1);
        Assert.assertNotNull(rentalOfGoods);
        Assert.assertNotNull(rentalOfGoods1);
    }

    @Test
    public void selectOne(){
        RentalOfGood rentalOfGood = new RentalOfGood();
        rentalOfGood = null;
        rentalOfGood = rentalOfGoodService.selectOne(id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        Assert.assertNotNull(rentalOfGood);
    }

    @Test
    public void selectLike(){
        List<RentalOfGood> rentalOfGoods = new LinkedList<>();
        rentalOfGoods = null; rentalOfGoods1 = null; rentalOfGoods2 = null;
        rentalOfGoods = rentalOfGoodService.selectLike(1, "a");
        rentalOfGoods1 = rentalOfGoodService.selectLike(2, "a");
        rentalOfGoods2 = rentalOfGoodService.selectLike(3, "a");
        Assert.assertNotNull(rentalOfGoods);
        Assert.assertNotNull(rentalOfGoods1);
        Assert.assertNotNull(rentalOfGoods2);
    }

    @Test
    public void updateImg(){
        int num = rentalOfGoodService.updateImg("asd", id: "5aa20998-5c3c-4318-baca-2fa8acbbf49b");
        Assert.assertEquals(1, num);
    }
}
```

## 运行结果



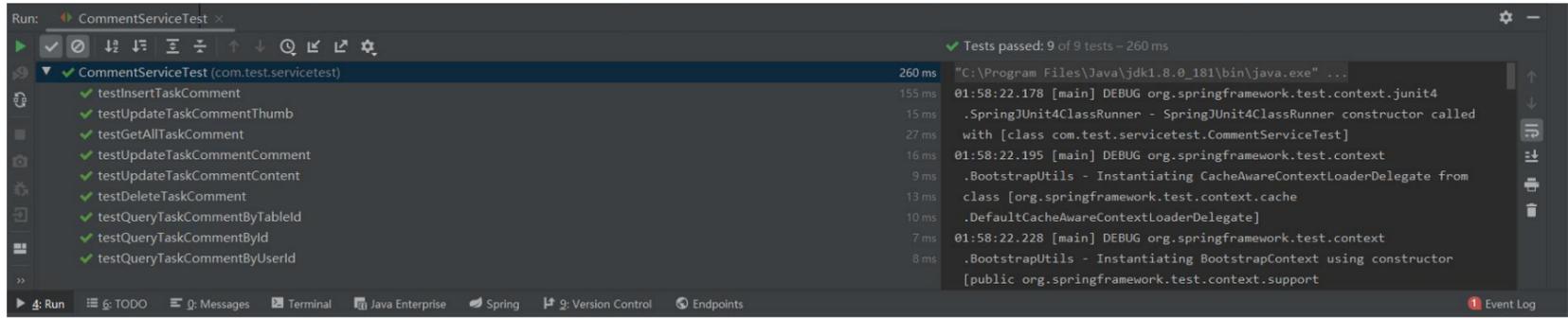
## 6. 评论服务层测试

### 代码截图

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help SchoolMustardSpace-Java [...]Z&C\Desktop\SchoolMustardSpace-Java\SchoolMustardSpace-Java] - ...CommentServiceTest.java
SchoolMustardSpace-Java src main java com test servicetest CommentServiceTest MustardSpaceApplication
SchoolMustardSpace-Java C:\Users\Z&C\Desktop\SchoolMustardSpace-Java
External Libraries
Scratches and Consoles
LostAndFoundServiceTest.java DesEncryptionTest.java UriCodeTest.java CommentServiceTest.java RentalOfGoodServiceTest.java Uuid

1 package com.test.servicetest;
2
3 import com.springboot.MustardSpaceApplication;
4
5 import com.springboot.domain.Comment;
6 import com.springboot.service.TaskCommentService;
7 import org.junit.Assert;
8 import org.junit.Test;
9 import org.junit.runner.RunWith;
10 import org.springframework.beans.factory.annotation.Autowired;
11 import org.springframework.boot.test.context.SpringBootTest;
12 import org.springframework.test.context.junit4.SpringRunner;
13
14 import java.util.List;
15
16
17 /**
18  * @author 会飞的大野鸡
19  * @create 2020/5/7
20  * TODO:
21  */
22
23
24 @RunWith(SpringRunner.class)
25 @SpringBootTest(classes = {MustardSpaceApplication.class})
26 public class CommentServiceTest {
27
28     @Autowired
29     private TaskCommentService taskCommentService;
30
31     /**
32      * testGetAllTaskComment
33      * TODO
34      * @description testGetAllTaskComment
35      * @author 221701412_theTuring
36      * @version v 1.0.0
37      * @since 2020.5.6
38      */
39     @Test
40     public void testGetAllTaskComment(){
41
42         List<Comment> list = taskCommentService.getAllTaskComment();
43
44         Assert.assertNotNull(list);
45     }
46
47     /**
48      * testQueryTaskCommentById
49      * TODO
50      * @description testQueryTaskCommentById
51      * @author 221701412_theTuring
52      * @version v 1.0.0
53      * @since 2020.5.6
54      */
55     @Test
56     public void testQueryTaskCommentById(){
57
58         String id = "b51fb005-af3b-42c5-80ce-3b16531b7f30";
59
60         Comment comment = taskCommentService.queryTaskCommentById(id);
61
62         Assert.assertNotNull(comment);
63     }
64
65     /**
66      * testQueryTaskCommentByUserId
67      * TODO
68      * @description testQueryTaskCommentByUserId
69      * @author 221701412_theTuring
70      * @version v 1.0.0
71      * @since 2020.5.6
72      */
73     @Test
74     public void testQueryTaskCommentByUserId(){
75
76         String user_id = "1";
77
78         List<Comment> list = taskCommentService.queryTaskCommentByUserId(user_id);
79
80         Assert.assertNotNull(list);
81     }
82
83     /**
84      * testQueryTaskCommentByTableId
85      * TODO
86      * @description testQueryTaskCommentByTableId
87      * @author 221701412_theTuring
88      * @version v 1.0.0
89      * @since 2020.5.6
90      */
91     @Test
92     public void testQueryTaskCommentByTableId(){
93
94         String table_id = "04cc5c44-2c3e-488b-9947-1b1db08e81c1";
95
96         List<Comment> list = taskCommentService.queryTaskCommentByTableId(table_id);
97
98         Assert.assertNotNull(list);
99     }
100
101     /**
102      * testInsertTaskComment
103      * TODO
104      * @description testInsertTaskComment
105      * @author 221701412_theTuring
106      * @version v 1.0.0
107      * @since 2020.5.6
108      */
109     @Test
110     public void testInsertTaskComment(){
111
112         Comment comment = new Comment();
113
114         comment.setId("test_uuid");
115         comment.setTable_id("04cc5c44-2c3e-488b-9947-1b1db08e81c1");
116         comment.setUser_id(1);
117         comment.setPublish_time("ts");
118
119         int result = taskCommentService.insertTaskComment(comment);
120         int expected = 1;
121
122         Assert.assertEquals(expected,result);
123     }
124 }
125
```

## 运行结果



## 后端性能测试——221701429 黄晓东

在程序启动后开始测试，标记当时的数据方便后续对比，打开 CPU views。

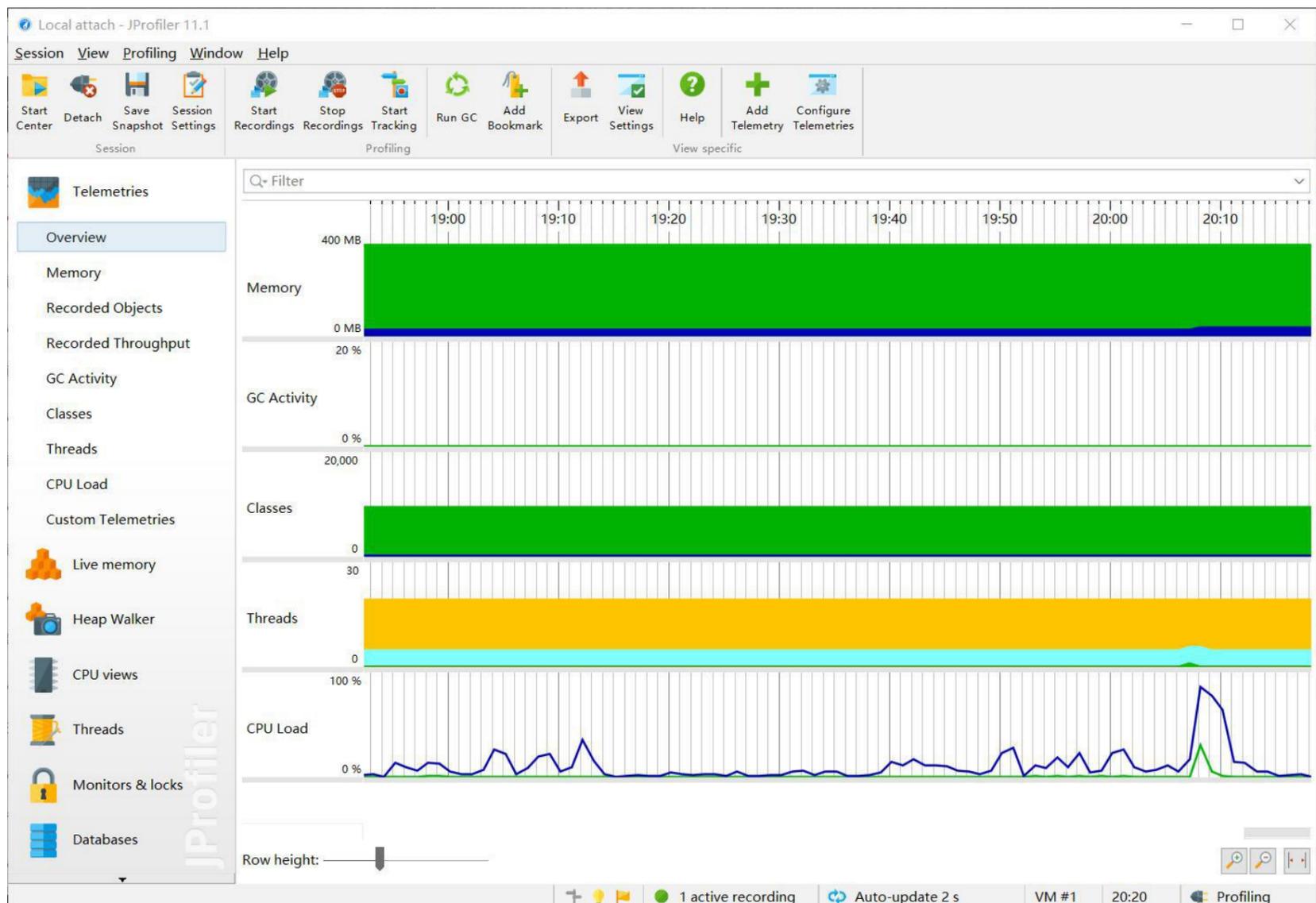
第一次测试访问 43 次接口，可以看出内存使用只有细微变化，CPU 负荷短时间内升高后降低，对内存分析中，char[] 和 String 的创建提升了近 20k。快速访问结束。

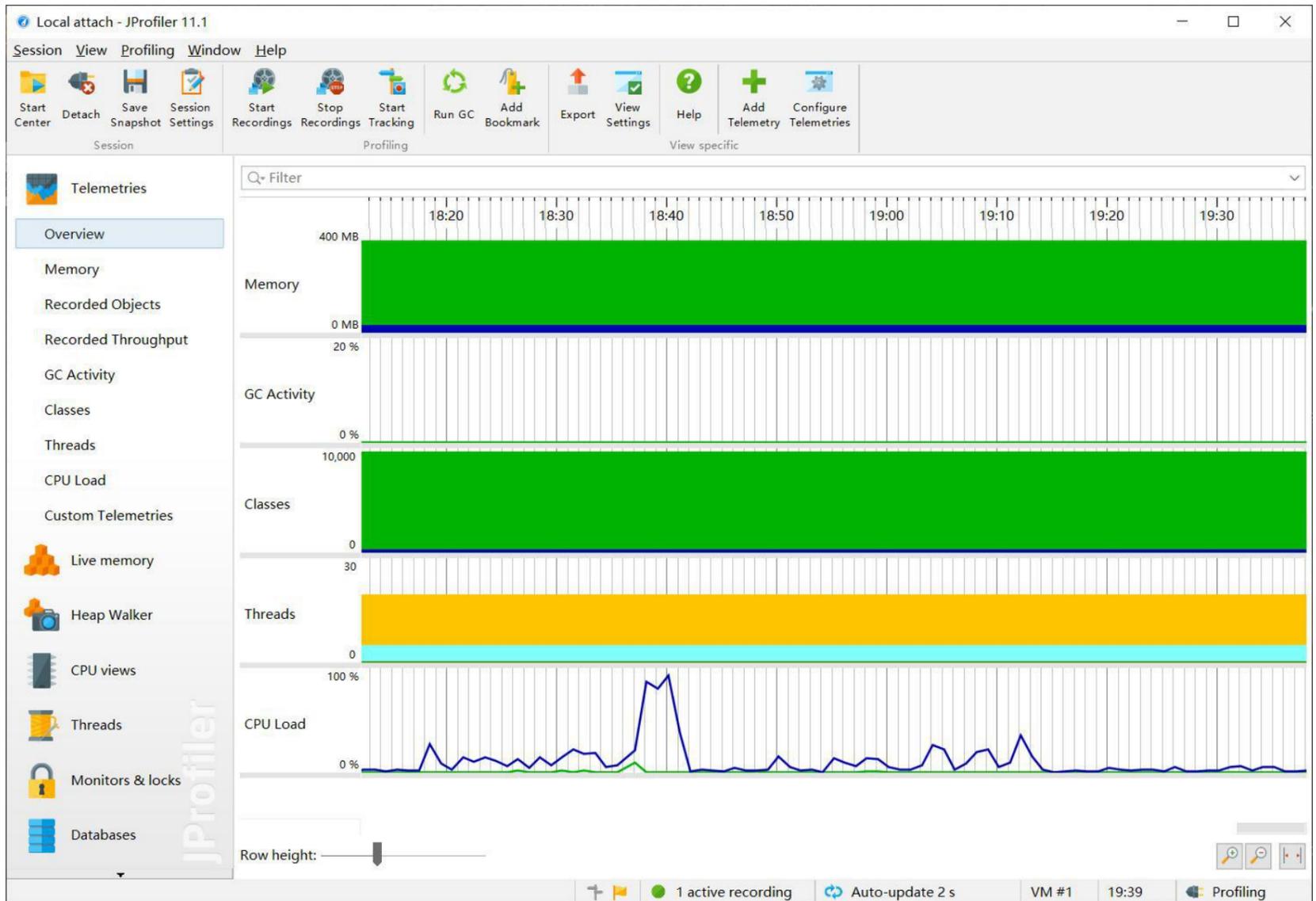
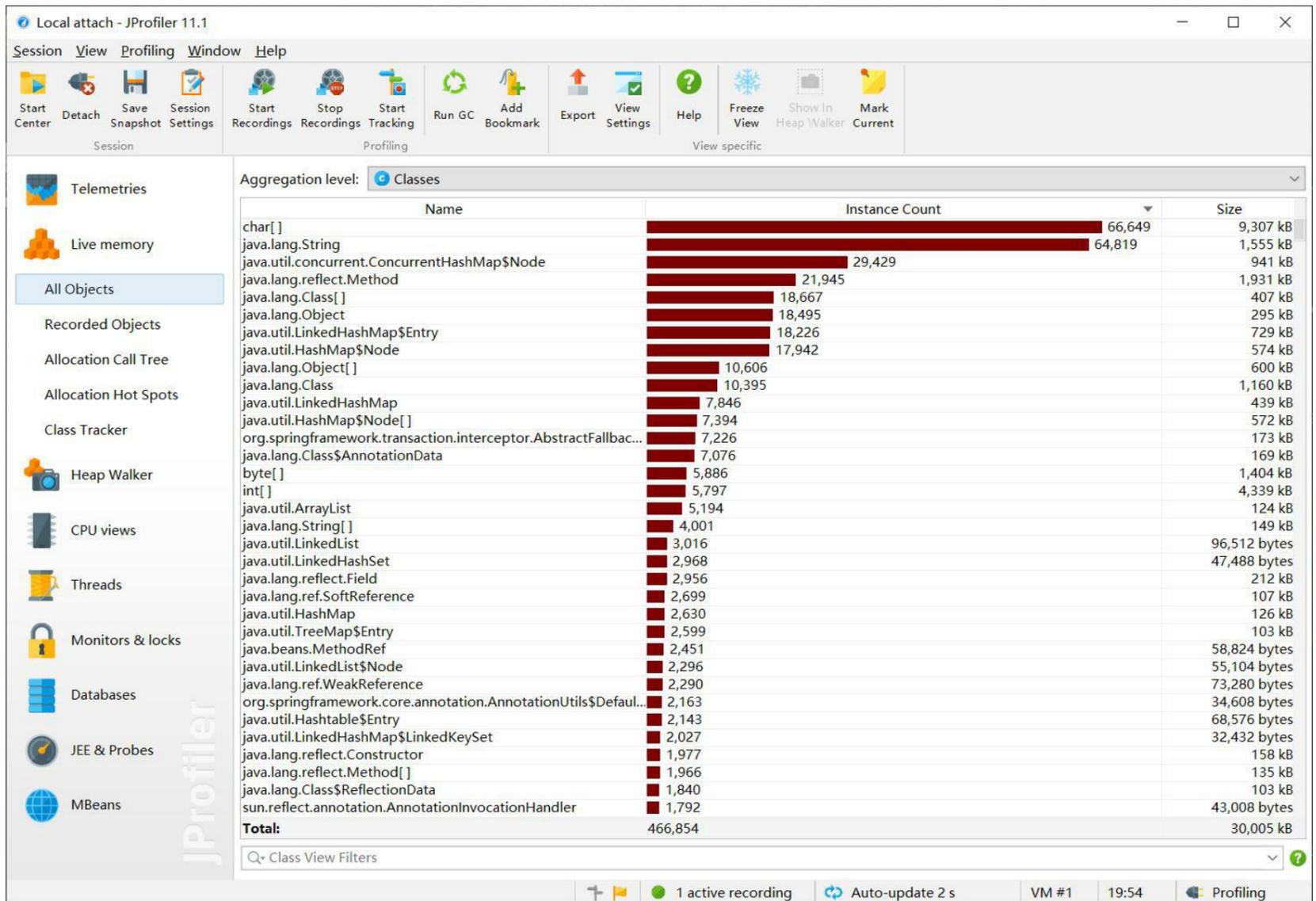
第二次测试访问 430 次接口，内存的使用有了小幅度的攀升，CPU 保持大约 20 秒的高负荷状态，char[] 的创建增加了 2 倍，String、Object 和 class 等的创建也是大幅增加。此时查看 CPU 的调用树，发现用时较为平均。测试花费约 30 秒。

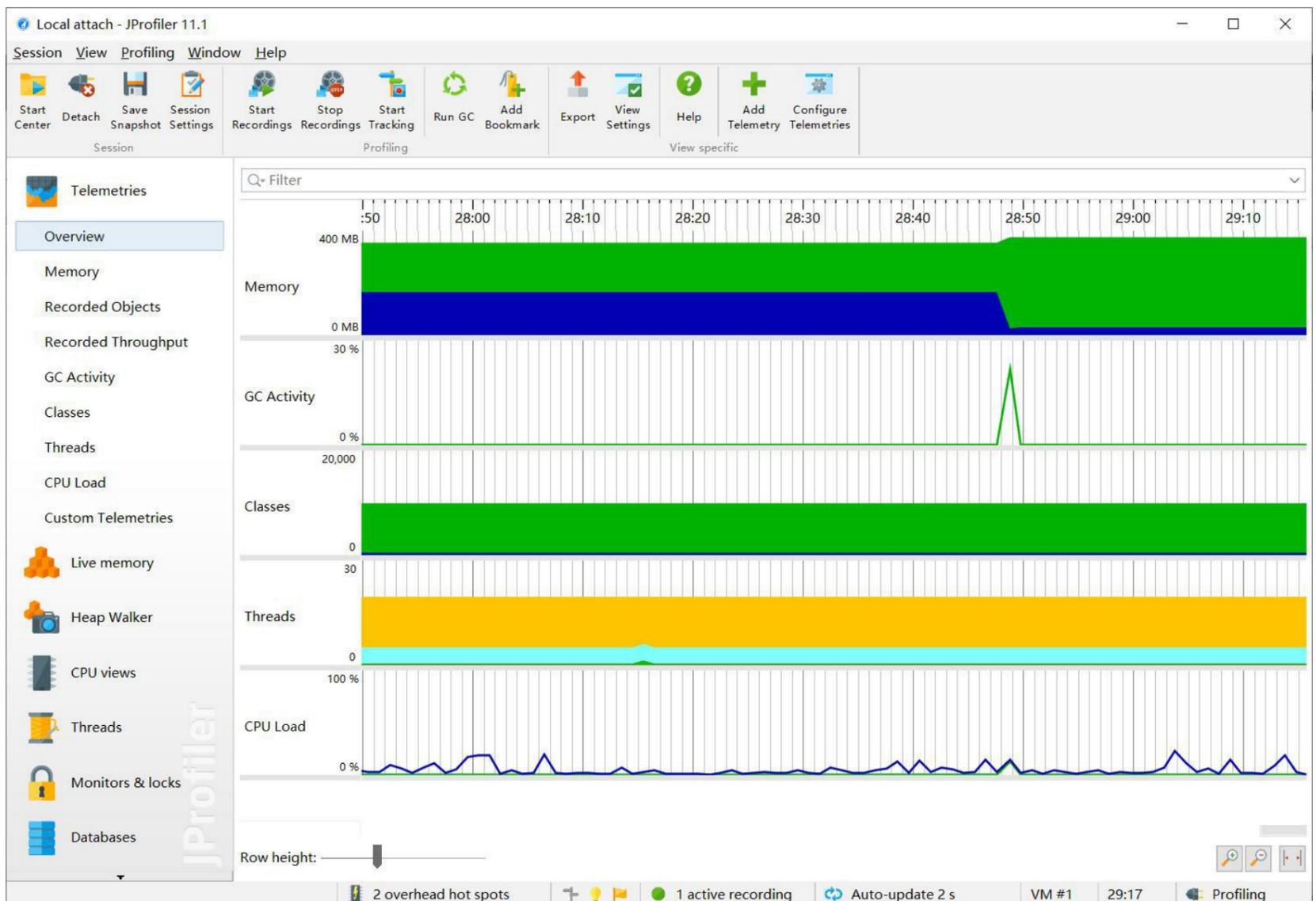
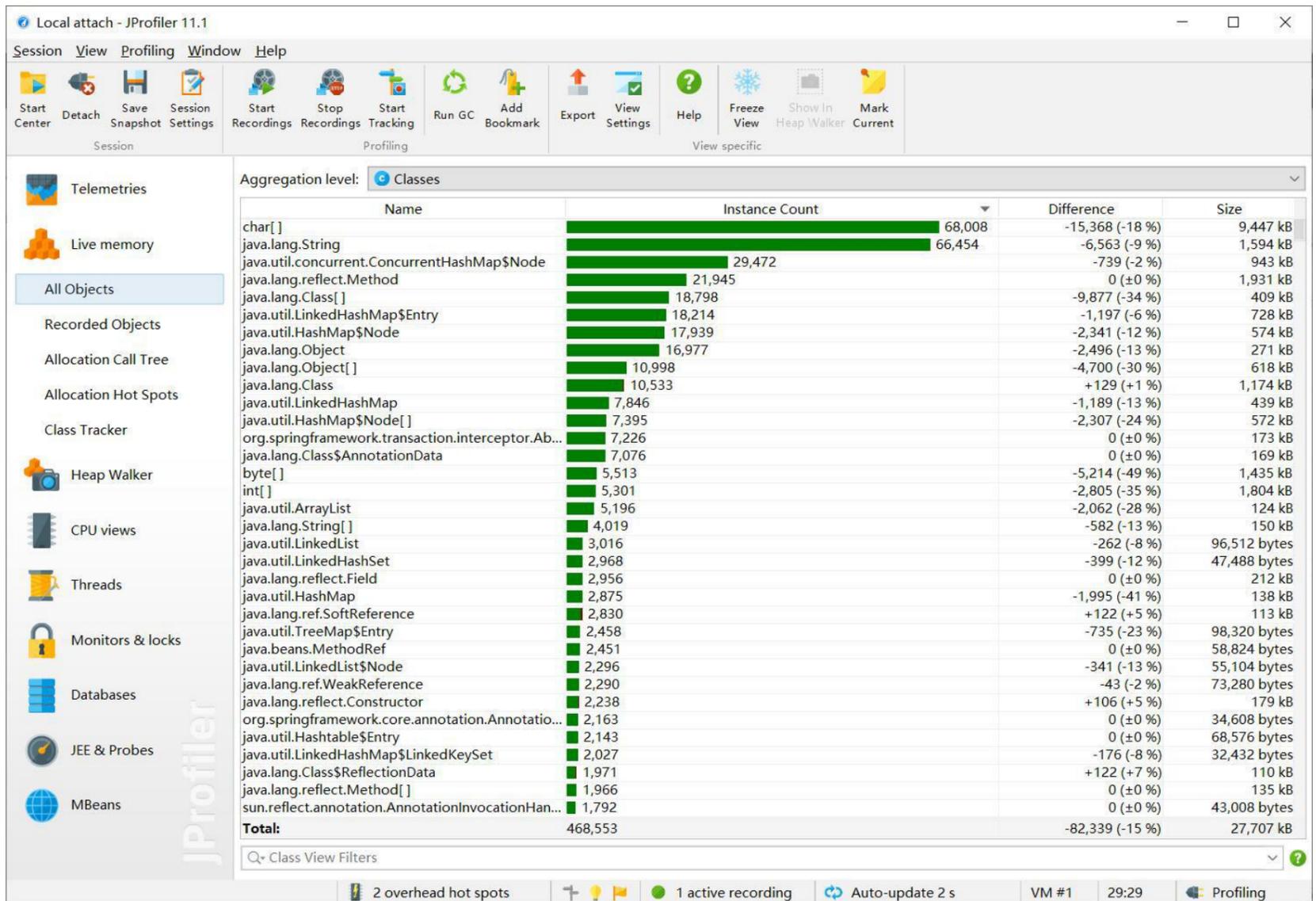
第三次测试访问 2150 次接口，运行初内存使用大幅度上升后断崖下降，观察到 GC 的活动，可以判断是垃圾自动回收，后持续上升至一半的内存保持不变，内存的使用中看出所有对象的创建都飙升，此时显然达到负载上限，查看调用树可知更新管理员信息和物品租赁的更新和查找耗时较长。

手动 GC 后内存使用下降至初始状态，各种类的实例也被删除，没有内存泄漏。

第四次测试访问 1720 次接口，内存变化和 2150 次类似，不同之处在于下降后只有小幅度上升后保持平稳，发现对象创建过多，较初始状态提升 16 倍有余，可以考虑减少对象的创建，调用树中分析/api/rental/query/all 的耗费时间对比其他高了一倍以上，原因应该是在数据库中存在大量数据时查询全部非常缓慢，考虑优化查询方式。







Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Show Legend Stop CPU Back Forward Show Graph Analyze

Session Profiling View specific

Telemetries Live memory Heap Walker CPU views Call Tree Hot Spots Call Graph Outlier Detection Complexity Analysis Call Tracer JavaScript XHR Threads Monitors & locks Databases JEE & Probes

Thread selection: All thread groups Aggregation level: Methods

Thread status: Runnable View mode: Tree

- 100.0% - 9,573 ms - 10 inv. org.apache.tomcat.util.threads.TaskThread\$WrappingRunnable.run
- 8.6% - 823 ms - 61 inv. HTTP: /api/admin/update
- 7.7% - 736 ms - 61 inv. HTTP: /api/rental/update/collect
- 7.0% - 666 ms - 61 inv. HTTP: /api/rental/query/like/label
- 3.0% - 291 ms - 122 inv. HTTP: /api/admin/find/password
- 2.5% - 242 ms - 122 inv. HTTP: /api/user/find/password
- 2.0% - 187 ms - 61 inv. HTTP: /api/admin/register
- 1.9% - 186 ms - 61 inv. HTTP: /api/rental/query/userId
- 1.9% - 181 ms - 61 inv. HTTP: /api/lost\_and\_found/query/like/title
- 1.9% - 177 ms - 61 inv. HTTP: /api/lost\_and\_found/query/like/label
- 1.8% - 171 ms - 61 inv. HTTP: /api/rental/query/like/title
- 1.7% - 167 ms - 61 inv. HTTP: /api/rental/insert
- 1.7% - 163 ms - 61 inv. HTTP: /api/rental/query/like/content
- 1.7% - 161 ms - 61 inv. HTTP: /api/rental/query/all
- 1.7% - 160 ms - 61 inv. HTTP: /api/lost\_and\_found/query/userId
- 1.7% - 158 ms - 61 inv. HTTP: /api/admin/login
- 1.6% - 157 ms - 61 inv. HTTP: /api/lost\_and\_found/insert
- 1.6% - 156 ms - 61 inv. HTTP: /api/lost\_and\_found/query/like/content
- 1.6% - 155 ms - 61 inv. HTTP: /api/user/update
- 1.6% - 155 ms - 61 inv. HTTP: /api/lost\_and\_found/query/all
- 1.6% - 155 ms - 61 inv. HTTP: /api/user/login
- 1.6% - 153 ms - 61 inv. HTTP: /api/user/register
- 1.6% - 149 ms - 61 inv. HTTP: /api/admin/query/accountNumber/221701429
- 1.6% - 148 ms - 61 inv. HTTP: /api/user/query/accountNumber/221701429
- 1.5% - 145 ms - 61 inv. HTTP: /api/rental/update/isDone
- 1.5% - 143 ms - 61 inv. HTTP: /api/admin/query/id/6
- 1.5% - 140 ms - 61 inv. HTTP: /api/user/query/id/16
- 1.5% - 138 ms - 61 inv. HTTP: /api/rental/delete
- 1.3% - 126 ms - 61 inv. HTTP: /api/rental/rent
- 1.3% - 124 ms - 61 inv. HTTP: //api/lost\_and\_found/update/thumbUp
- 1.3% - 122 ms - 61 inv. HTTP: /api/admin/delete
- 1.3% - 120 ms - 61 inv. HTTP: /api/user/delete
- 1.3% - 120 ms - 61 inv. HTTP: /api/lost\_and\_found/query/id

2 overhead hot spots 1 active recording Auto-update 5 s VM #1 27:34 Profiling

Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Freeze View Show In Heap Walker Mark Current

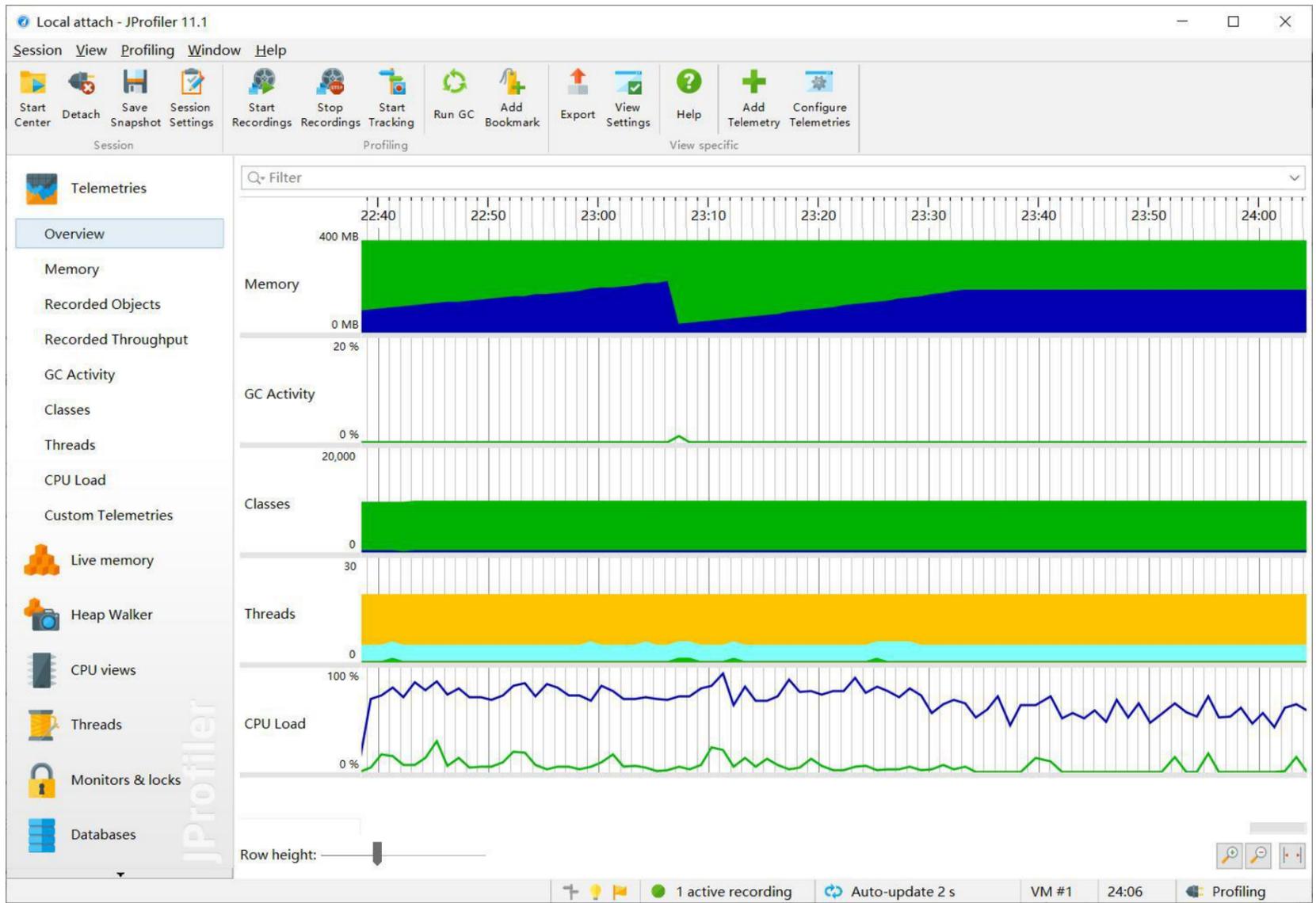
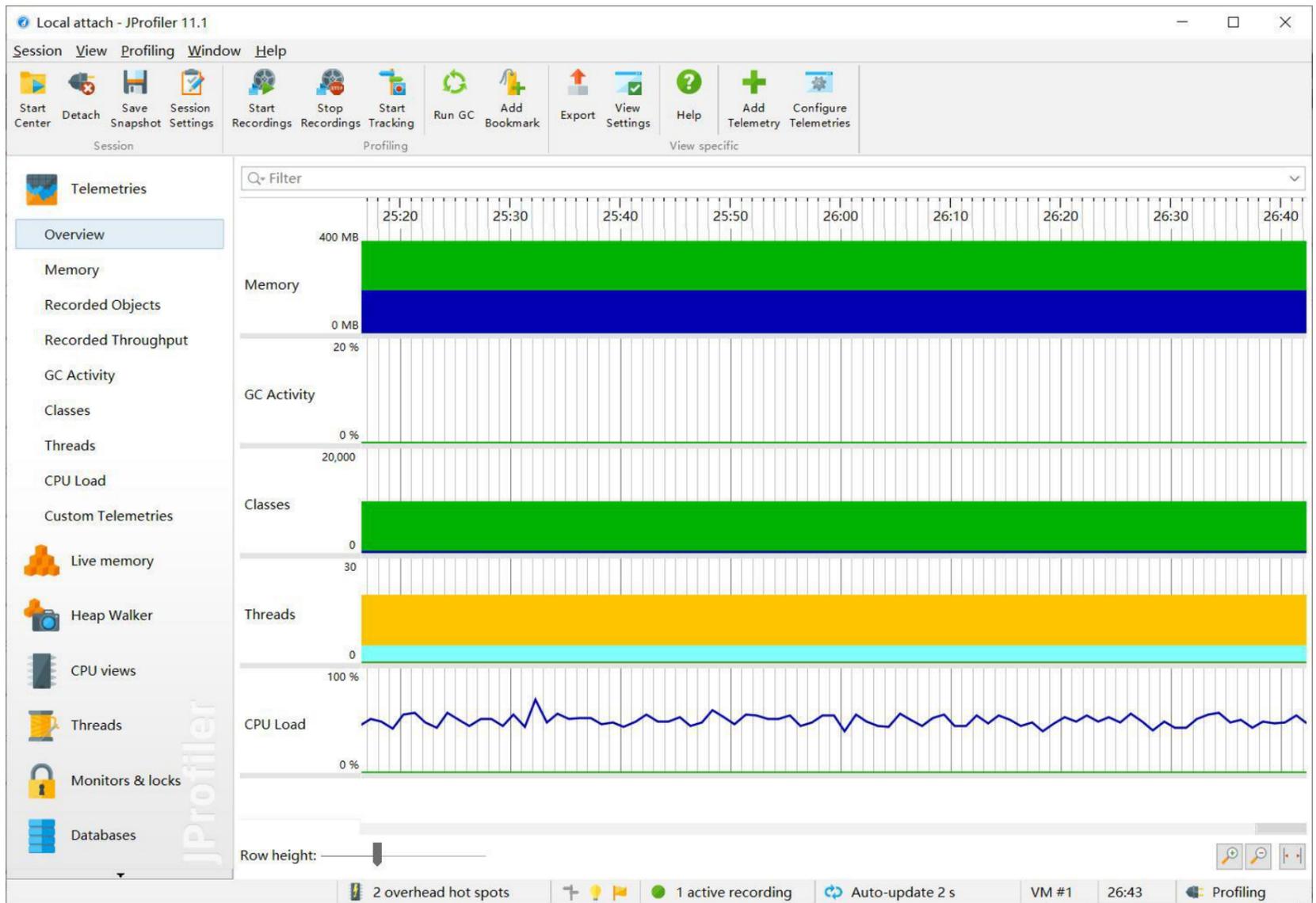
Session Profiling View specific

Telemetries Live memory All Objects Recorded Objects Allocation Call Tree Allocation Hot Spots Class Tracker Heap Walker CPU views Threads Monitors & locks Databases JEE & Probes MBeans

Aggregation level: Classes

Name	Instance Count	Difference	Size
char[]	723,364	+639,988 (+768 %)	51,025 kB
java.lang.Object[]	496,964	+481,266 (+3066 %)	11,904 kB
java.lang.String	450,614	+377,597 (+517 %)	10,814 kB
java.lang.Class[]	296,051	+267,376 (+932 %)	5,036 kB
byte[]	136,768	+126,041 (+1175 %)	17,956 kB
com.mysql.cj.result.StringValueFactory	110,318	+109,840 (+22979 %)	1,765 kB
java.lang.Integer	92,351	+90,886 (+6204 %)	1,477 kB
java.util.HashMap	83,455	+78,585 (+1614 %)	4,005 kB
com.mysql.cj.result.StringConverter	81,880	+81,552 (+24863 %)	2,620 kB
java.util.HashMap\$Node	77,223	+56,943 (+281 %)	2,471 kB
java.util.HashMap\$Node[]	65,847	+56,145 (+579 %)	3,589 kB
int[]	63,453	+55,347 (+683 %)	8,002 kB
java.util.ArrayList\$Itr	56,734	+53,465 (+1636 %)	1,815 kB
java.util.LinkedHashMap\$LinkedKeyIterator	49,852	+47,858 (+2400 %)	1,595 kB
java.util.concurrent.ConcurrentHashMap\$Node	48,130	+17,919 (+59 %)	1,540 kB
java.util.LinkedHashMap\$Entry	47,241	+27,830 (+143 %)	1,889 kB
java.nio.HeapByteBuffer	42,646	+41,433 (+3416 %)	2,047 kB
java.util.ArrayList	41,516	+34,258 (+472 %)	996 kB
java.util.LinkedHashMap	37,927	+28,892 (+320 %)	2,123 kB
com.mysql.cj.util.LazyString	31,215	+29,988 (+2444 %)	998 kB
java.lang.StringBuilder	24,569	+22,664 (+1190 %)	589 kB
com.mysql.cj.protocol.a.NativePacketHeader	23,513	+23,068 (+5184 %)	376 kB
java.util.LinkedHashMap\$LinkedValueIterator	23,279	+22,258 (+2180 %)	744 kB
java.lang.Object	23,036	+3,563 (+18 %)	368 kB
java.lang.annotation.Annotation[]	22,751	+21,738 (+2146 %)	683 kB
com.mysql.cj.protocol.a.NativePacketPayload	22,368	+21,948 (+5226 %)	536 kB
java.lang.reflect.Method	21,945	0 (±0 %)	1,931 kB
java.util.regex.Matcher	21,377	+20,525 (+2409 %)	1,368 kB
java.lang.String[]	18,786	+14,185 (+308 %)	684 kB
org.apache.ibatis.reflection.MetaObject	18,085	+17,855 (+7763 %)	578 kB
java.lang.reflect.Constructor	17,967	+15,835 (+743 %)	1,437 kB
java.util.TreeMap\$Entry	16,718	+13,525 (+424 %)	668 kB
java.util.HashSet	16,246	+14,766 (+998 %)	259 kB
org.apache.ibatis.reflection.MetaClass	15,195	+15,013 (+8249 %)	364 kB
<b>Total:</b>	<b>4,054,104</b>	<b>+3,484,192 (+611 %)</b>	<b>170 MB</b>

2 overhead hot spots 1 active recording Auto-update 5 s VM #1 27:21 Profiling



Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Show Legend Stop CPU Back Forward Show Graph Analyze

Session Profiling View specific

Telemetries Live memory Heap Walker CPU views Call Tree Hot Spots Call Graph Outlier Detection Complexity Analysis Call Tracer JavaScript XHR Threads Monitors & locks Databases JEE & Probes

Thread selection: All thread groups Aggregation level: Methods

Thread status: Runnable View mode: Tree

```

100.0% - 3,875 ms - 10 inv. org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run
12.2% - 473 ms - 40 inv. HTTP: /api/rental/query/all
10.6% - 409 ms - 40 inv. com.springboot.controller.RentalOfGoodController.queryAll
10.5% - 408 ms - 40 inv. com.springboot.service.impl.RentalOfGoodServiceImpl.selectList
10.5% - 408 ms - 40 inv. org.mybatis.spring.SqlSessionTemplate.selectList
10.5% - 408 ms - 40 inv. org.apache.ibatis.session.SqlSession.selectList
10.5% - 408 ms - 40 inv. org.mybatis.spring.SqlSessionTemplate$SqlSessionInterceptor.invoke
10.5% - 406 ms - 40 inv. java.lang.reflect.Method.invoke
8.4% - 326 ms - 5,900 inv. com.springboot.domain.RentalOfGood.setUserld
0.0% - 1,047 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setld
0.0% - 785 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setTitle
0.0% - 747 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setCollect
0.0% - 744 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setContent
0.0% - 737 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setLocation
0.0% - 725 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setStartTime
0.0% - 708 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setIsDone
0.0% - 706 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setImage
0.0% - 693 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setComment
0.0% - 672 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setLabel
0.0% - 670 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setThumbUp
0.0% - 665 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setEndTime
0.0% - 661 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setUnitPrice
0.0% - 644 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setNewDegree
0.0% - 565 μs - 40 inv. org.mybatis.spring.transaction.SpringManagedTransaction.getConnection
0.0% - 44 μs - 40 inv. org.mybatis.spring.transaction.SpringManagedTransaction.getTimeout
0.0% - 799 μs - 40 inv. org.mybatis.spring.SqlSessionUtils.closeSqlSession
0.0% - 491 μs - 40 inv. org.mybatis.spring.SqlSessionUtils.getSqlSession
0.0% - 176 μs - 40 inv. org.apache.ibatis.session.SqlSession.commit
0.0% - 142 μs - 40 inv. org.mybatis.spring.SqlSessionUtils.isSqlSessionTransactional
0.0% - 76 μs - 40 inv. java.util.LinkedList.<init>
0.0% - 54 μs - 40 inv. java.lang.Integer.valueOf
0.0% - 41 μs - 40 inv. com.springboot.util.jsontool.JsonResult.build
0.0% - 755 μs - 5,900 inv. com.springboot.domain.RentalOfGood.setld
  
```

1 overhead hot spot 1 active recording Auto-update 5 s VM #1 31:10 Profiling

Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Freeze View Show In Heap Walker Mark Current

Session Profiling View specific

Telemetries Live memory All Objects Recorded Objects Allocation Call Tree Allocation Hot Spots Class Tracker Heap Walker CPU views Threads Monitors & locks Databases JEE & Probes MBeans

Aggregation level: Classes

Name	Instance Count	Difference	Size
char[]	243,155	+179,540 (+282 %)	18,336 kB
java.lang.Object[]	185,831	+175,369 (+1676 %)	4,422 kB
java.lang.String	172,141	+109,960 (+177 %)	4,131 kB
java.lang.Class[]	51,729	+41,546 (+408 %)	906 kB
com.mysql.cj.result.StringValueFactory	45,304	+45,304 (+Inf %)	724 kB
java.lang.Integer	35,909	+35,173 (+4779 %)	574 kB
com.mysql.cj.result.StringConverter	33,474	+33,474 (+Inf %)	1,071 kB
byte[]	32,664	+27,712 (+560 %)	4,374 kB
java.lang.Object	31,771	+15,418 (+94 %)	508 kB
java.util.concurrent.ConcurrentHashMap\$Node	31,594	+2,289 (+8 %)	1,011 kB
java.util.HashMap\$Node	24,517	+7,306 (+42 %)	784 kB
java.util.LinkedHashMap\$Entry	20,746	+3,546 (+21 %)	829 kB
java.util.HashMap	20,528	+17,855 (+668 %)	985 kB
java.util.ArrayList\$Itr	15,837	+15,834 (+527800 %)	506 kB
java.lang.reflect.Method	15,387	0 (±0 %)	1,354 kB
java.util.HashMap\$Node[]	14,171	+7,137 (+101 %)	915 kB
int[]	12,349	+6,883 (+126 %)	2,213 kB
java.util.LinkedHashMap	11,131	+3,653 (+49 %)	623 kB
java.lang.Class	10,493	+10 (+0 %)	1,170 kB
java.util.ArrayList	9,240	+4,431 (+92 %)	221 kB
java.nio.HeapByteBuffer	9,181	+9,154 (+33904 %)	440 kB
java.lang.reflect.Constructor	7,263	+5,831 (+407 %)	581 kB
org.springframework.transaction.interceptor.Ab...	7,226	0 (±0 %)	173 kB
java.lang.Class\$AnnotationData	7,032	0 (±0 %)	168 kB
com.mysql.cj.protocol.a.NativePacketPayload	6,763	+6,742 (+32105 %)	162 kB
com.mysql.cj.protocol.a.NativePacketHeader	6,719	+6,719 (+Inf %)	107 kB
org.apache.ibatis.reflection.MetaObject	6,115	+6,115 (+Inf %)	195 kB
java.util.LinkedHashMap\$LinkedKeyIterator	6,013	+6,003 (+60030 %)	192 kB
org.apache.ibatis.reflection.MetaClass	5,763	+5,763 (+Inf %)	138 kB
org.apache.ibatis.reflection.wrapper.BeanWrapp...	5,763	+5,763 (+Inf %)	138 kB
java.lang.String[]	5,715	+1,789 (+46 %)	210 kB
com.mysql.cj.protocol.a.result.TextBufferRow	5,669	+5,669 (+Inf %)	272 kB
java.lang.management.MemoryUsage	5,652	+5,646 (+94100 %)	271 kB
java.util.TreeMap\$Entry	5,642	+3,278 (+139 %)	225 kB
<b>Total:</b>	<b>1,321,314</b>	<b>+897,961 (+212 %)</b>	<b>56,501 kB</b>

1 overhead hot spot 1 active recording Auto-update 2 s VM #1 30:46 Profiling

Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Show Legend Stop CPU Back Forward Show Graph Analyze

Session Profiling View specific

Telemetries Live memory Heap Walker CPU views Call Tree Hot Spots Call Graph Outlier Detection Complexity Analysis Call Tracer JavaScript XHR Threads Monitors & locks Databases JEE & Probes

Thread selection: All thread groups Aggregation level: Methods

Thread status: Runnable View mode: Tree

- 100.0% - 2,340 ms - 10 inv. org.apache.tomcat.util.threads.TaskThread\$WrappingRunnable.run
  - 14.3% - 101 ms - 22 inv. HTTP: /api/admin/find/password
  - 13.5% - 82,408 μs - 11 inv. HTTP: /api/admin/register
  - 12.7% - 63,206 μs - 22 inv. HTTP: /api/user/find/password
  - 12.5% - 57,399 μs - 11 inv. HTTP: /api/rental/query/userId
  - 12.3% - 52,995 μs - 11 inv. HTTP: /api/user/query/accountNumber/221701429
  - 12.2% - 50,965 μs - 11 inv. HTTP: /api/admin/query/id/6
  - 12.1% - 49,382 μs - 11 inv. HTTP: /api/user/login
  - 12.1% - 49,216 μs - 11 inv. HTTP: /api/admin/login
  - 12.1% - 48,818 μs - 11 inv. HTTP: /api/rental/insert
  - 12.0% - 47,103 μs - 11 inv. HTTP: /api/user/register
  - 12.0% - 46,344 μs - 11 inv. HTTP: /api/lost\_and\_found/query/like/label
  - 12.0% - 45,721 μs - 11 inv. HTTP: /api/user/update
  - 1.9% - 44,890 μs - 11 inv. HTTP: /api/user/query/id/16
  - 1.9% - 44,582 μs - 11 inv. HTTP: /api/admin/query/accountNumber/221701429
  - 1.9% - 44,299 μs - 11 inv. HTTP: /api/lost\_and\_found/query/userId
  - 1.8% - 43,109 μs - 11 inv. HTTP: /api/lost\_and\_found/query/like/title
  - 1.8% - 42,582 μs - 11 inv. HTTP: /api/lost\_and\_found/insert
  - 1.8% - 42,447 μs - 11 inv. HTTP: /api/admin/delete
  - 1.8% - 41,889 μs - 11 inv. HTTP: /api/user/delete
  - 1.8% - 41,858 μs - 11 inv. HTTP: /api/admin/update
  - 1.8% - 41,397 μs - 11 inv. HTTP: //api/lost\_and\_found/update/thumbUp
  - 1.8% - 41,176 μs - 11 inv. HTTP: /api/rental/query/like/title
  - 1.8% - 41,009 μs - 11 inv. HTTP: /api/rental/query/like/content
  - 1.7% - 40,496 μs - 11 inv. HTTP: /api/lost\_and\_found/query/id
  - 1.7% - 40,453 μs - 11 inv. HTTP: /api/rental/delete
  - 1.7% - 40,440 μs - 11 inv. HTTP: /api/lost\_and\_found/query/like/content
  - 1.7% - 40,406 μs - 11 inv. HTTP: /api/rental/update/isDone
  - 1.7% - 39,194 μs - 11 inv. HTTP: /api/rental/update/thumbUp
  - 1.7% - 38,627 μs - 11 inv. HTTP: /api/rental/query/like/label
  - 1.6% - 38,588 μs - 11 inv. HTTP: /api/lost\_and\_found/query/all
  - 1.6% - 37,377 μs - 11 inv. HTTP: /api/rental/rent
  - 1.6% - 37,261 μs - 11 inv. HTTP: /api/lost\_and\_found/update/isDone

Q Call Tree View Filters

1 active recording Auto-update 5 s VM #1 22:19 Profiling

Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Freeze View Show In Heap Walker Mark Current

Session Profiling View specific

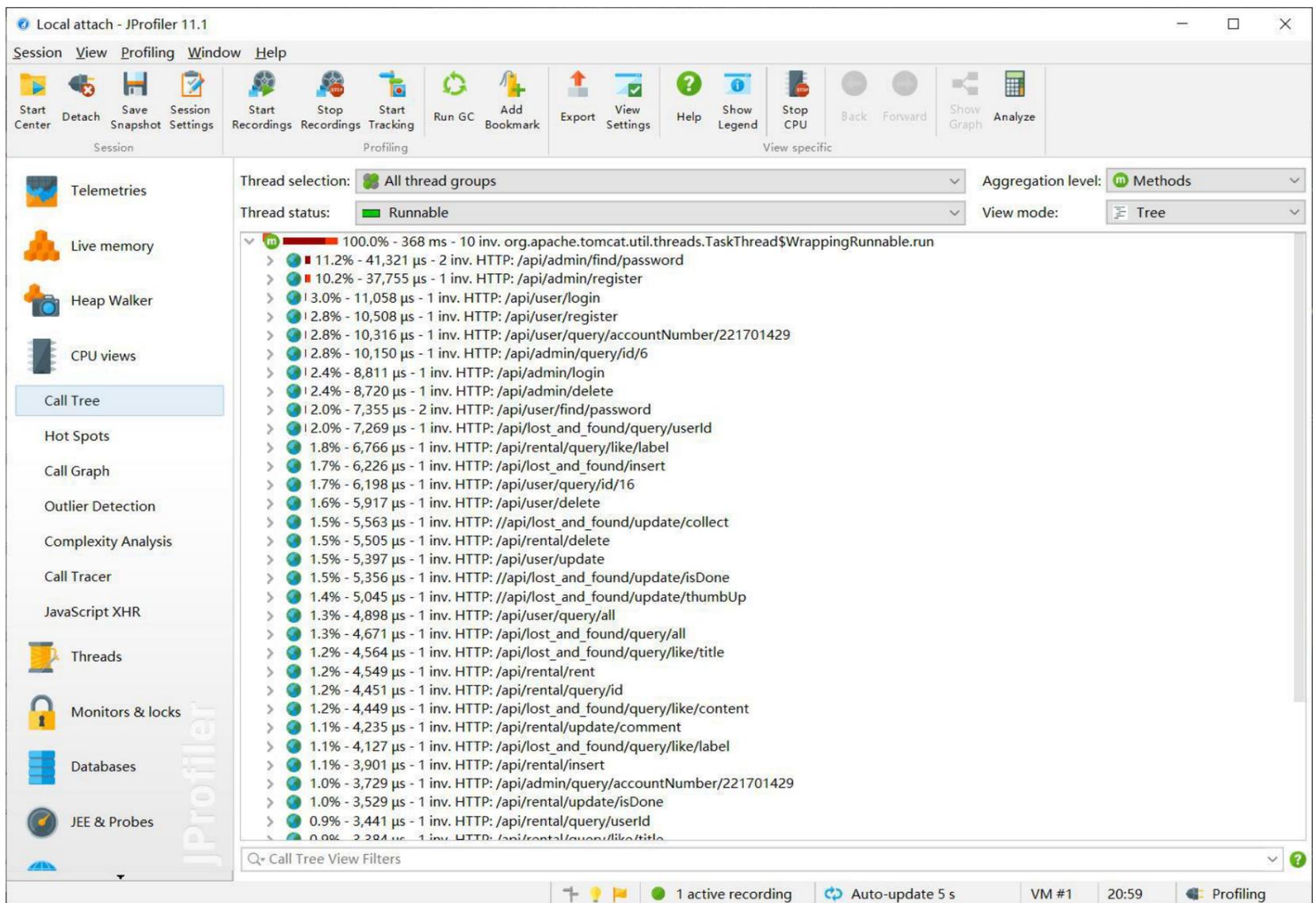
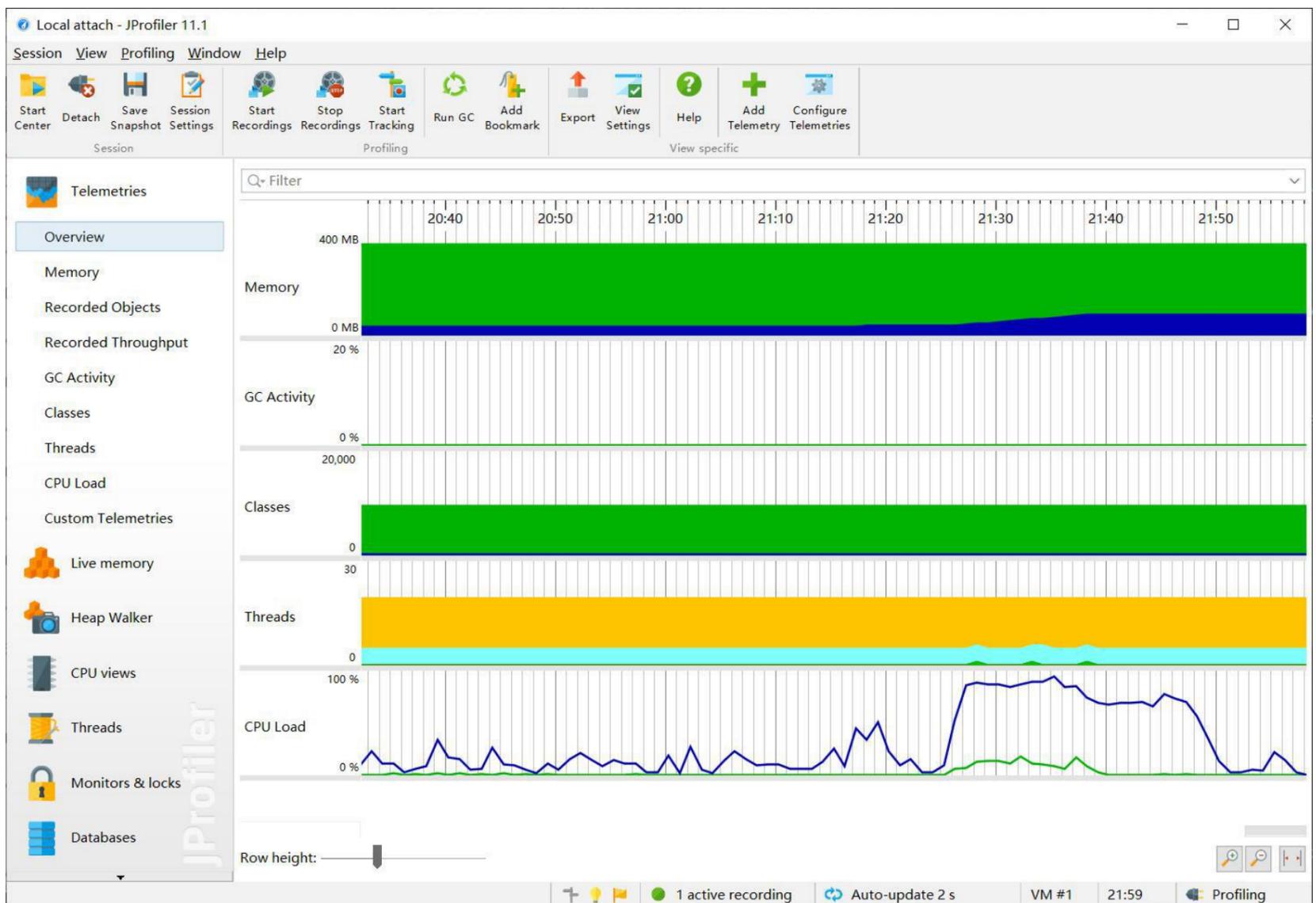
Telemetries Live memory All Objects Recorded Objects Allocation Call Tree Allocation Hot Spots Class Tracker Heap Walker CPU views Threads Monitors & locks Databases JEE & Probes MBeans

Aggregation level: Classes

Name	Instance Count	Difference	Size
char[]	261,289	+177,913 (+213 %)	25,120 kB
java.lang.String	160,632	+87,615 (+120 %)	3,855 kB
java.lang.Class[]	129,650	+100,975 (+352 %)	2,266 kB
java.lang.Object[]	82,495	+66,797 (+426 %)	2,608 kB
byte[]	56,463	+45,736 (+426 %)	7,972 kB
java.util.HashMap\$Node	43,635	+23,355 (+115 %)	1,396 kB
java.util.concurrent.ConcurrentHashMap\$Node	37,569	+7,358 (+24 %)	1,202 kB
java.util.HashMap\$Node[]	32,783	+23,081 (+238 %)	1,883 kB
int[]	31,047	+22,941 (+283 %)	11,911 kB
java.util.LinkedHashMap\$Entry	30,892	+11,481 (+59 %)	1,235 kB
java.util.HashMap	28,181	+23,311 (+479 %)	1,352 kB
java.util.ArrayList	26,997	+19,739 (+272 %)	647 kB
java.util.ArrayList\$Itr	23,622	+20,353 (+623 %)	755 kB
java.lang.reflect.Method	21,945	0 (±0 %)	1,931 kB
java.util.LinkedHashMap\$LinkedKeyIterator	21,835	+19,841 (+995 %)	698 kB
java.lang.Object	21,818	+2,345 (+12 %)	349 kB
java.lang.StringBuilder	21,264	+19,359 (+1016 %)	510 kB
java.util.LinkedHashMap	20,925	+11,890 (+132 %)	1,171 kB
java.util.Collections\$UnmodifiableCollection\$1	20,202	+18,137 (+878 %)	484 kB
org.apache.ibatis.reflection.property.PropertyTo...	14,051	+12,467 (+787 %)	449 kB
java.nio.HeapByteBuffer	13,641	+12,428 (+1025 %)	654 kB
com.mysql.cj.util.LazyString	13,467	+12,240 (+998 %)	430 kB
java.lang.Integer	11,880	+10,415 (+711 %)	190 kB
java.util.LinkedHashMap\$LinkedValueIterator	11,231	+10,210 (+1000 %)	359 kB
java.lang.String[]	10,522	+5,921 (+129 %)	386 kB
java.lang.Class	10,456	+52 (±0 %)	1,166 kB
java.lang.annotation.Annotation[]	9,933	+8,920 (+881 %)	297 kB
com.mysql.cj.result.StringValueFactory	9,658	+9,180 (+1921 %)	154 kB
java.util.regex.Matcher	9,372	+8,520 (+1000 %)	599 kB
java.util.TreeMap\$Entry	8,804	+5,611 (+176 %)	352 kB
java.util.HashSet	8,790	+7,310 (+494 %)	140 kB
java.util.LinkedHashSet	7,357	+3,990 (+119 %)	117 kB
org.springframework.transaction.interceptor.Ab...	7,226	0 (±0 %)	173 kB
java.lang.Class\$AnnotationData	7,076	0 (±0 %)	169 kB
<b>Total:</b>	<b>1,610,564</b>	<b>+1,040,507 (+183 %)</b>	<b>86,546 kB</b>

Q Class View Filters

1 active recording Auto-update 2 s VM #1 22:10 Profiling



Local attach - JProfiler 11.1

Session View Profiling Window Help

Start Center Detach Save Snapshot Session Settings Start Recordings Stop Recordings Start Tracking Run GC Add Bookmark Export View Settings Help Freeze View Show In Heap Walker Mark Current

Session Profiling View specific

Telemetries Live memory All Objects Recorded Objects Allocation Call Tree Allocation Hot Spots Class Tracker Heap Walker CPU views Threads Monitors & locks Databases JEE & Probes MBeans

Aggregation level: Classes

Name	Instance Count	Size
char[]	83,322	10,707 kB
java.lang.String	73,008	1,752 kB
java.util.concurrent.ConcurrentHashMap\$Node	30,211	966 kB
java.lang.Class[]	28,675	574 kB
java.lang.reflect.Method	21,945	1,931 kB
java.util.HashMap\$Node	20,280	648 kB
java.util.LinkedHashMap\$Entry	19,411	776 kB
java.lang.Object	19,281	308 kB
java.lang.Object[]	15,698	754 kB
byte[]	10,670	2,023 kB
java.lang.Class	10,404	1,161 kB
java.util.HashMap\$Node[]	9,702	691 kB
java.util.LinkedHashMap	9,035	505 kB
int[]	8,106	6,593 kB
java.util.ArrayList	7,258	174 kB
org.springframework.transaction.interceptor.AbstractFallback...	7,226	173 kB
java.lang.Class\$AnnotationData	7,076	169 kB
java.util.HashMap	4,867	233 kB
java.lang.String[]	4,601	171 kB
java.util.LinkedHashSet	3,367	53,872 bytes
java.util.LinkedList	3,278	104 kB
java.util.ArrayList\$Itr	3,197	102 kB
java.util.TreeMap\$Entry	3,193	127 kB
java.lang.reflect.Field	2,956	212 kB
java.lang.ref.SoftReference	2,708	108 kB
java.util.LinkedList\$Node	2,637	63,288 bytes
java.beans.MethodRef	2,451	58,824 bytes
java.lang.ref.WeakReference	2,333	74,656 bytes
java.util.LinkedHashMap\$LinkedKeySet	2,203	35,248 bytes
org.springframework.core.annotation.AnnotationUtils\$Defaul...	2,163	34,608 bytes
java.util.Hashtable\$Entry	2,143	68,576 bytes
java.lang.reflect.Constructor	2,132	170 kB
java.util.Collections\$UnmodifiableCollection\$1	2,041	48,984 bytes
java.util.LinkedHashMap\$LinkedKeyIterator	1,994	63,808 bytes
<b>Total:</b>	<b>569,505</b>	<b>36,699 kB</b>

Class View Filters

1 active recording Auto-update 2 s VM #1 20:38 Profiling