

# 迭代一：测试文档

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# 1. 简介

## 1.1 项目背景

本项目是一个线上众包测试平台，项目背景详情见需求规格文档。

## 1.2 测试目的

1. 前端页面渲染
2. 后端数据库交互
3. 后端接口完成度
4. 后端接口正确性
5. 后端接口之间的交互
6. 前端与后端的交互

## 1.3 测试环境

- springboot版本：2.6.3
- mybatis-plus版本：3.5.1
- mysql版本：8.0.28
- vue版本：2.X
- junit版本：5.8.2

## 1.4 测试范围

- 测试主要为集成测试，后端包括Mapper层单元测试，Service层集成测试，Controller层集成测试。前端测试包括与后端的交互。

# 2. 测试计划

## 2.1 后端测试

1. 单元测试：主要对后端的Mapper层进行单元测试。
2. 集成测试：调用后端的Service层和Controller层，以及前端进行层层集成测试。

## 3. 后端测试

### 3.1 Mapper层单元测试

#### 3.1.1 测试方向

测试mapper包下的每一个被调用过的方法并调用数据库进行验证。

#### 3.1.2 测试准备

1. 测试方法使用@Transactional注解保证任务原子性，并且在运行完测试用例后将涉及文件操作的文件夹中残留文件删除，这样不容易受外部数据干扰，也不会影响后续的测试进行。
2. 关闭正在运行的后端避免测试途中外部传入新数据影响测试结果。

#### 3.1.3 测试用例

##### 3.1.3.1 UserMapper

测试编号：0

测试方法：userMapper.selectByMap

```
1      void testSelect(){
2          Map<String,Object> map=new HashMap<>();
3          map.put("email","123");
4          assert 0==userMapper.selectByMap(map).size();
5      }
```

测试编号：1

测试方法：userMapper.insert

```
1 void testInsert(){
2     User user=new User("123","123",UserIdentity.DELIVER);
3     assert 1==userMapper.insert(user);
4     Map<String,Object> map=new HashMap<>();
5     map.put("email","123");
6     userMapper.deleteByMap(map);
7 }
```

### 3.1.3.2 CodeMapper

测试编号：0

测试方法：codeMapper.selectByMap

```
1 void testSelect(){
2     Map<String,Object> map=new HashMap<>();
3     map.put("code","123");
4     assert codeMapper.selectByMap(map).size()==0;
5 }
```

测试编号：1

测试方法：codeMapper.deleteByMap

```
1 void testDelete(){
2     codeMapper.insert(new Code("123456"));
3     Map<String,Object> map=new HashMap<>();
4     map.put("code","123456");
5     assert codeMapper.deleteByMap(map)==1;
6 }
```

### 3.1.3.3 TaskMapper

测试编号：0

测试方法：taskMapper.insert

```
1 void testInsert(){
2     User user=new User("23","32312", UserIdentity.DELIVER);
3     userMapper.insert(user);
4     Task task=new
Task(user.getId(),"213d",123,123,0,0L,"dsajdo","fdejiodfj","ejwi");
5     assert 1==taskMapper.insert(task);
6     taskMapper.deleteByMap(null);
7     userMapper.deleteByMap(null);
8 }
```

测试编号1:

测试方法: taskMapper.updateById

```
1 void testUpdateById(){
2     User user=new User("23","32312", UserIdentity.DELIVER);
3     userMapper.insert(user);
4     Task task=new
Task(user.getId(),"213d",123,123,0,0L,"dsajdo","fdejiodfj","dhi");
5     taskMapper.insert(task);
6     int t=task.getId();
7     task.setId(234325423);
8     assert 0==taskMapper.updateById(task);
9     task.setId(t);
10    task.setAurl("67");
11    assert 1==taskMapper.updateById(task);
12    assert
"67".equals(taskMapper.selectById(task.getId()).getAurl());
13    taskMapper.deleteByMap(null);
14    userMapper.deleteByMap(null);
15 }
```

测试编号: 2

测试方法: taskMapper.selectByMap

```
1 void testSelectByMap(){
2     User user=new User("23","32312", UserIdentity.DELIVER);
3     userMapper.insert(user);
4     Task task=new
Task(user.getId(),"213d",123,123,0,0L,"dsajdo","fdejiodfj","wdioj");
5     taskMapper.insert(task);
6     Map<String, Object> select = new HashMap<>();
7     select.put("id", task.getId());
8     select.put("userId", task.getUserId());
9     assert taskMapper.selectByMap(select).size()==1;
10    select.remove("id");
11    Task task2=new
Task(user.getId(),"213d",123,123,0,0L,"dsajdo","fdejiodfj","fejo");
12    taskMapper.insert(task2);
13    assert taskMapper.selectByMap(select).size()==2;
14    Task task3=new
Task(user.getId(),"213d",123,123,0,0L,"dsajdo","fdejiodfj","efjoi");
15    taskMapper.insert(task3);
16    assert taskMapper.selectByMap(null).size()==3;
17    taskMapper.deleteByMap(null);
18    userMapper.deleteByMap(null);
19 }
```

测试编号：3

测试方法：taskMapper.selectTaskByLabel

```
1 void testSelectTaskByLabel(){
2     User user=new User("23","32312", UserIdentity.DELIVER);
3     userMapper.insert(user);
4     long time=System.currentTimeMillis()*2;
5     Task task=new
Task(user.getId(),"SMTC",123,123,0,time,"dsajdo","fdejiodfj","wo");
6     Task task1=new
Task(user.getId(),"MT",123,123,1,time/4,"dsajdo","fdejiodfj","feji");
7     taskMapper.insert(task);
8     taskMapper.insert(task1);
9     Integer tag=null;
10    Integer if_finished=null;
11    long now_time=System.currentTimeMillis();
12    assert
taskMapper.selectTaskByLabel(tag,if_finished,null,now_time).size()==2;
13    if_finished=0;
14    assert
taskMapper.selectTaskByLabel(tag,if_finished,null,now_time).size()==1;
15    if_finished=1;
16    assert
taskMapper.selectTaskByLabel(tag,if_finished,null,now_time).size()==1;
17    tag=0;
18    assert
taskMapper.selectTaskByLabel(tag,if_finished,null,now_time).size()==0;
19    tag=1;
20    assert
taskMapper.selectTaskByLabel(tag,if_finished,null,now_time).size()==1;
21    if_finished=null;
22    tag=null;
23    String name="MT";
24    assert
taskMapper.selectTaskByLabel(tag,if_finished,name,now_time).size()==2;
25    name="MTC";
26    assert
taskMapper.selectTaskByLabel(tag,if_finished,name,now_time).size()==1;
27    taskMapper.deleteByMap(null);
28    userMapper.deleteByMap(null);
29 }
```

### 3.1.3.4 WorkMapper

测试编号：0

测试方法：workMapper.insert

```
1  public void testInsert(){
2      User user0=new User("666","jdwdfnm", UserIdentity.DELIVER);
3      User user1=new User("waoij","fejiojf",UserIdentity.WORKER);
4      User user2=new User("ooj","foiwjf",UserIdentity.WORKER);
5      userMapper.insert(user0);
6      userMapper.insert(user2);
7      userMapper.insert(user1);
8      Task task=new
Task(user0.getId(),"jeiw",10,10,1,0L,"dea","ejijfw","djo");
9      taskMapper.insert(task);
10     assert 1==workMapper.insert(new
Work(null,user1.getId(),task.getId(), WorkStatus.TO_FINISH));
11     workMapper.deleteByMap(null);
12     taskMapper.deleteByMap(null);
13     userMapper.deleteByMap(null);
14 }
```

测试编号：1

测试方法：workMapper.selectByMap



```
1 public void testSelectByMap(){
2     User user0=new User("666","jdwdfnm", UserIdentity.DELIVER);
3     User user1=new User("waoij","fejiojf",UserIdentity.WORKER);
4     User user2=new User("ooj","foiwjf",UserIdentity.WORKER);
5     userMapper.insert(user0);
6     userMapper.insert(user2);
7     userMapper.insert(user1);
8     Task task=new
Task(user0.getId(),"jeiw",10,10,1,0L,"dea","ejijfw","feji");
9     Task task2=new
Task(user0.getId(),"jeiw",10,10,1,0L,"dea","ejijfw","fejo");
10    taskMapper.insert(task);
11    taskMapper.insert(task2);
12    workMapper.insert(new Work(null,user1.getId(),task.getId(),
WorkStatus.TO_FINISH));
13    workMapper.insert(new Work(null,user1.getId(),task2.getId(),
WorkStatus.TO_FINISH));
14    workMapper.insert(new Work(null,user2.getId(),task.getId(),
WorkStatus.TO_FINISH));
15    workMapper.insert(new Work(null,user2.getId(),task2.getId(),
WorkStatus.TO_FINISH));
16    Map<String,Object> map=new HashMap<>();
17    map.put("userId",user1.getId());
18    assert 2==workMapper.selectByMap(map).size();
19    map.put("taskId",task.getId());
20    assert 1==workMapper.selectByMap(map).size();
21    workMapper.deleteByMap(null);
22    taskMapper.deleteByMap(null);
23    userMapper.deleteByMap(null);
24 }
```

### 3.1.3.5 ReportMapper

测试编号：0

测试方法：reportMapper.selectByMap

```
1 public void testSelectByTaskId(){
2     User user0=new User("342","321", UserIdentity.DELIVER);
3     User user1=new User("34","321", UserIdentity.WORKER);
4     User user2=new User("34333","321", UserIdentity.WORKER);
5     userMapper.insert(user0);
6     userMapper.insert(user1);
7     userMapper.insert(user2);
8     Task task=new Task(user0.getId(),"软工三作业检
查",10,10,0,0L,"a","b","dfs");
9     taskMapper.insert(task);
10    Report report1=new Report(user1.getId(),task.getId(),"67大
帝","czy","6+");
11    reportMapper.insert(report1);
12    Report report2=new Report(user2.getId(),task.getId(),"67大
帝","czy","6+");
13    reportMapper.insert(report2);
14    Map<String, Object> map = new HashMap<>();
15    map.put("taskId", task.getId());
16    assert reportMapper.selectByMap(map).size()==2;
17    reportMapper.deleteByMap(null);
18    taskMapper.deleteById(task.getId());
19    userMapper.deleteById(user0.getId());
20    userMapper.deleteById(user1.getId());
21    userMapper.deleteById(user2.getId());
22 }
```

### 3.1.3.6 ReportImageMapper

测试编号：0

测试方法：reportImageMapper.deleteByMap

```
1 public void testDelete(){
2     User user0=new User("123","321", UserIdentity.DELIVER);
3     User user1=new User("1","321", UserIdentity.WORKER);
4     userMapper.insert(user0);
5     userMapper.insert(user1);
6     Task task=new Task(user0.getId(),"软工三作业检
查",10,10,0,0L,"a","b","cc");
7     taskMapper.insert(task);
8     Report report1=new Report(user1.getId(),task.getId(),"好垃圾
啊","点进去就闪退","赢麻了的Mate40 pro plus 12+512");
9     reportMapper.insert(report1);
10    List<String> list= Arrays.asList("123","3423","3213");
11    for (String s : list) {
12        reportImageMapper.insert(new ReportImage(report1.getId(),s));
13    }
14    Map<String, Object> map = new HashMap<>();
15    map.put("reportId", report1.getId());
16    assert reportImageMapper.selectByMap(map).size()==3;
17    for (String s:list){
18        map=new HashMap<>();
19        map.put("image",s);
20        reportImageMapper.deleteByMap(map);
21    }
22    assert reportImageMapper.selectByMap(map).size()==0;
23    reportImageMapper.deleteByMap(null);
24    reportMapper.deleteByMap(null);
25    taskMapper.deleteById(task.getId());
26    userMapper.deleteById(user0.getId());
27    userMapper.deleteById(user1.getId());
28 }
```

测试编号：1

测试方法：reportImageMapper.insert

```
1 public void testInsert(){
2     User user0=new User("123","321", UserIdentity.DELIVER);
3     User user1=new User("1","321", UserIdentity.WORKER);
4     userMapper.insert(user0);
5     userMapper.insert(user1);
6     Task task=new Task(user0.getId(),"软工三作业检
查",10,10,0,0L,"a","b","dfs");
7     taskMapper.insert(task);
8     Report report1=new Report(user1.getId(),task.getId(),"好垃圾
啊","点进去就闪退","赢麻了的Mate40 pro plus 12+512");
9     reportMapper.insert(report1);
10    List<String> list= Arrays.asList("123","3423","3213");
11    for (String s : list) {
12        reportImageMapper.insert(new ReportImage(report1.getId(),s));
13    }
14    Map<String, Object> map = new HashMap<>();
15    map.put("reportId", report1.getId());
16    assert reportImageMapper.selectByMap(map).size()==3;
17    reportImageMapper.deleteByMap(null);
18    reportMapper.deleteByMap(null);
19    taskMapper.deleteById(task.getId());
20    userMapper.deleteById(user0.getId());
21    userMapper.deleteById(user1.getId());
22 }
```

测试编号：2

测试方法：reportImageMapper.selectByMap

```

1  public void testSelectByMap(){
2      User user0=new User("342","321", UserIdentity.DELIVER);
3      User user1=new User("34","321", UserIdentity.WORKER);
4      userMapper.insert(user0);
5      userMapper.insert(user1);
6      Task task=new Task(user0.getId(),"软工三作业检
查",10,10,0,0L,"a","b","ddji");
7      taskMapper.insert(task);
8      Report report1=new Report(user1.getId(),task.getId(),"67大
帝","czy","6+");
9      reportMapper.insert(report1);
10     List<String> list= Arrays.asList("123","3423","3213");
11     for (String s : list) {
12         reportImageMapper.insert(new ReportImage(report1.getId(),s));
13     }
14     Map<String, Object> map = new HashMap<>();
15     map.put("reportId", report1.getId());
16     assert reportImageMapper.selectByMap(map).size()==3;
17     reportImageMapper.deleteByMap(null);
18     reportMapper.deleteByMap(null);
19     taskMapper.deleteById(task.getId());
20     userMapper.deleteById(user0.getId());
21     userMapper.deleteById(user1.getId());
22 }

```

## 3.2 Service层集成测试

### 3.2.1 测试方向

通过调用方法以及assert断言测试Service层中各方法的准确性。

### 3.2.2 测试准备

1. 测试方法使用@Transactional注解保证任务原子性，并且在运行完测试用例后将涉及文件操作的文件夹中残留文件删除，保证下一次测试不受影响。
2. 关闭正在运行的后端避免测试途中外部传入新数据影响测试结果。

### 3.2.3 测试用例

#### 3.2.3.1 UserService

测试编号：0

测试方法：userService.register

```
1 void testRegister(){
2     UserDTO userDT0=new
    UserDTO("1123","123456",UserIdentity.DELIVER);
3     assert userService.register(userDT0).getCode()==4000;
4     assert userService.register(userDT0).getCode()==4001;
5 }
```

测试编号：1

测试方法：userService.login

```
1 void testLogin(){
2     UserDTO userDT0=new
    UserDTO("1123","123456",UserIdentity.DELIVER);
3     assert userService.login(userDT0).getCode()==4002;
4     userService.register(userDT0);
5     UserDTO userDT02=new
    UserDTO("1123","123457",UserIdentity.DELIVER);
6     assert userService.login(userDT02).getCode()==4003;
7     assert userService.login(userDT0).getCode()==4000;
8 }
```

测试编号：2

测试方法：userService.codeJudge

```
1 void testCode() {
2     assert !userService.codeJudge("abc");
3     codeMapper.insert(new Code("abc"));
4     assert userService.codeJudge("abc");
5 }
```

测试编号：3

测试方法：userService.getIdentityByUserId

```
1 void testGetIdentityByUserId(){
2     UserDTO userDTO=new UserDTO("tzh19850355091@163.com","123456",
    UserIdentity.DELIVER);
3     userService.register(userDTO);
4     Map<String,Object> map=new HashMap<>();
5     map.put("email","tzh19850355091@163.com");
6     assert UserIdentity.DELIVER==userService.getIdentityByUserId(
7         userMapper.selectByMap(map).get(0).getId());
8 }
```

### 3.2.3.2 WorkService

测试编号：0

测试方法：workService.findTaskByUserId

```
1 public void testFindTaskByUserId() {
2     User user0 = new User("666", "jdwdfnm", UserIdentity.DELIVER);
3     User user1 = new User("waoij", "fejiojf", UserIdentity.WORKER);
4     userMapper.insert(user0);
5     userMapper.insert(user1);
6     Task task = new Task(user0.getId(), "jeiw", 10, 10, 1,
    System.currentTimeMillis() + 100000, "dea", "ejijfw", "wo");
7     taskMapper.insert(task);
8     workMapper.insert(new Work(null, user1.getId(), task.getId(),
    WorkStatus.T0_FINISH));
9     assert workService.findTaskByUserId(user1.getId(),
    WorkStatus.FINISH).getData().size() == 0;
10    assert workService.findTaskByUserId(user1.getId(),
    WorkStatus.T0_FINISH).getData().size() == 1;
11 }
```

测试编号：1

测试方法：workService.partTask

```

1 public void testPartTask() {
2     User user0 = new User("666", "jdjwdfnm", UserIdentity.DELIVER);
3     User user1 = new User("waoij", "fejiojf", UserIdentity.WORKER);
4     User user2 = new User("ooj", "foiwjf", UserIdentity.WORKER);
5     userMapper.insert(user0);
6     userMapper.insert(user2);
7     userMapper.insert(user1);
8     Task task = new Task(user0.getId(), "jeiw", 10, 10, 1, 0L, "dea",
"ejijfw", "fej");
9     Task task2 = new Task(user0.getId(), "jeiw", 10, 10, 1,
System.currentTimeMillis() + 2743892784327L, "dea", "ejijfw", "wo");
10    taskMapper.insert(task);
11    taskMapper.insert(task2);
12    assert workService.partTask(new WorkDTO(user1.getId(),
task.getId(), WorkStatus.FINISH)).getCode() == 6002;
13    assert workService.partTask(new WorkDTO(user1.getId(),
task2.getId(), WorkStatus.TO_FINISH)).getCode() == 4000;
14    assert workService.partTask(new WorkDTO(user1.getId(),
task2.getId(), WorkStatus.TO_FINISH)).getCode() == 6001;
15 }

```

### 3.2.3.3 TaskService

测试编号：0

测试方法：taskService.issueTask

测试编号：1

测试方法：taskService.issueTask

测试编号：2

测试方法：taskService.findTaskByTaskIdList

测试编号：3

测试方法：taskService.findAllTasks





Java |  复制代码

测试编号：4

测试方法：taskService.selectTaskByLabel



Java |  复制代码

### 3.2.3.4 ReportService

测试编号：0

测试方法：reportService.commitReport, reportService.updateReport

```
1 public void testCommitAndUpdate() {
2     User user0 = new User("1", "321", UserIdentity.DELIVER);
3     User user1 = new User("12", "321", UserIdentity.WORKER);
4     userMapper.insert(user0);
5     userMapper.insert(user1);
6     Task task = new Task(user0.getId(), "软工三作业检查", 10, 10, 0,
    System.currentTimeMillis() + 100000, "a", "b", "fej");
7     taskMapper.insert(task);
8     MultipartFile multipartFile =
    FileUtil.getMulFileByPath("src/test/java/com/collect/img/-4248c8a4e688399
    8.jpg");
9     List<MultipartFile> images = new LinkedList<>();
10    images.add(multipartFile);
11    workMapper.insert(new Work(null, user1.getId(), task.getId(),
    WorkStatus.TO_FINISH));
12    ReportDT0 reportDT0 = new ReportDT0(user1.getId(), task.getId(),
    images, "干得不错", "直接不错", "iPhone13 pro max 远峰蓝 1TB");
13    reportService.commitReport(reportDT0);
14    ReportV0 reportV01 = (ReportV0)
    reportService.lookReports(task.getId()).getData().get(0);
15    int uid = user1.getId();
16    int tid = task.getId();
17    assert reportV01.toString().equals("ReportV0{userId=" + uid + ",
    taskId=" + tid + ", images=null, note='干得不错', steps='直接不错',
    device='iPhone13 pro max 远峰蓝 1TB'}");
18    assert reportV01.getPaths().size() == 1;
19    reportDT0.setImages(new LinkedList<>());
20    reportDT0.setId(reportV01.getId());
21    reportDT0.setNote("什么垃圾");
22    reportDT0.setSteps("上来就闪退");
23    reportService.updateReport(reportDT0);
24    reportV01 = (ReportV0)
    reportService.lookReports(task.getId()).getData().get(0);
25    assert reportV01.toString().equals("ReportV0{userId=" + uid + ",
    taskId=" + tid + ", images=null, note='什么垃圾', steps='上来就闪退',
    device='iPhone13 pro max 远峰蓝 1TB'}");
26    assert reportV01.getPaths().size() == 0;
27    reportImageMapper.deleteByMap(null);
28    reportMapper.deleteByMap(null);
29    taskMapper.deleteById(task.getId());
30    userMapper.deleteById(user0.getId());
31    userMapper.deleteById(user1.getId());
32 }
```

测试编号： 1

测试方法： reportService.lookReports

```
1 public void testLookReports() {
2     User user0 = new User("342", "321", UserIdentity.DELIVER);
3     User user1 = new User("34", "321", UserIdentity.WORKER);
4     User user2 = new User("34333", "321", UserIdentity.WORKER);
5     userMapper.insert(user0);
6     userMapper.insert(user1);
7     userMapper.insert(user2);
8     Task task = new Task(user0.getId(), "软工三作业检查", 10, 10, 0,
0L, "a", "b", "dfji");
9     taskMapper.insert(task);
10    workMapper.insert(new Work(null, user1.getId(), task.getId(),
null));
11    Report report1 = new Report(user1.getId(), task.getId(), "67大
帝", "czy", "6+");
12    reportMapper.insert(report1);
13    workMapper.insert(new Work(null, user2.getId(), task.getId(),
null));
14    Report report2 = new Report(user2.getId(), task.getId(), "67大
帝", "czy", "6+");
15    reportMapper.insert(report2);
16    List<String> list = Arrays.asList("123", "3423", "3213");
17    for (String s : list) {
18        reportImageMapper.insert(new ReportImage(report1.getId(),
s));
19    }
20    List<String> list2 = Arrays.asList("123", "nimabi");
21    for (String s : list2) {
22        reportImageMapper.insert(new ReportImage(report2.getId(),
s));
23    }
24    assert reportService.lookReports(task.getId()).getData().size()
== 2;
25    ReportV0 reportV0 = (ReportV0)
reportService.lookReports(task.getId()).getData().get(0);
26    assert reportV0.getPaths().size() == 3;
27    reportV0 = (ReportV0)
reportService.lookReports(task.getId()).getData().get(1);
28    assert reportV0.getPaths().size() == 2;
29    reportImageMapper.deleteByMap(null);
30    reportMapper.deleteByMap(null);
31    taskMapper.deleteById(task.getId());
32    userMapper.deleteById(user0.getId());
33    userMapper.deleteById(user1.getId());
34    userMapper.deleteById(user2.getId());
35 }
```

测试编号：2  
测试方法：reportService.lookReports

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```
1 public void testLookReportsNotFound() {  
2     assert reportService.lookReports(2318290).getCode() == 4000;  
3 }
```

### 3.3 Controller层集成测试

#### 3.3.1 测试方向

通过调用方法以及assert断言测试controller层中各方法的准确性。

#### 3.3.2 测试准备

- 1. 测试方法使用@Transactional注解保证任务原子性，并且在运行完测试用例后将涉及文件操作的文件夹中残留文件删除，保证下一次测试不受影响。
- 2. 关闭正在运行的后端避免测试途中外部传入新数据影响测试结果。

#### 3.3.3 测试用例

##### 3.3.3.1 UserController

测试编号：0  
测试方法：userController.register

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测试编号：1  
测试方法：userController.register

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测试编号：2  
测试方法：userController.login

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3.3.3.2 ReportController

测试编号：0

测试方法：reportController.commitReport、reportController.updateReport

▶

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测试编号：1

测试方法：reportController.lookReports

▶

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3.3.3.3 TaskController

测试编号：2

测试方法：taskController.issueTask、taskController.searchPublishedTask

▶

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测试编号：3

测试方法：taskController.searchTaskForWorker

▶

Java | 复制代码

测试编号：4

测试方法：taskController.searchTaskForWorker

▶

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测试编号：5

测试方法：taskController.updateTaskInfo

▶

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测试编号：6

测试方法：taskController.issueTask

▶


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测试编号：7

测试方法: taskController.findAllTasks



Java


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测试编号: 8

测试方法: taskController.selectTaskByLabel



Java

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### 3.3.3.4 WorkController

测试编号: 0

测试方法: workController.partTask



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