

CS673 Software Engineering**Team X - Project Name****Software Test Document**Your project Logo
here if any

<u>Team Member</u>	<u>Role(s)</u>	<u>Signature</u>	<u>Date</u>
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Revision history

<u>Version</u>	<u>Author</u>	<u>Date</u>	<u>Change</u>

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● Testing Summary

In this section, you will summarize what was tested, who is involved in testing, testing techniques used, and testing result. You may have the following tests

- Unit Testing
- Integration testing
- System Testing
- Acceptance Testing
- Regression Testing

Each test is written by the sub group that governs their parts. Tests may include manual and automatic as each sub group sees fit.

● Manual Testing Report

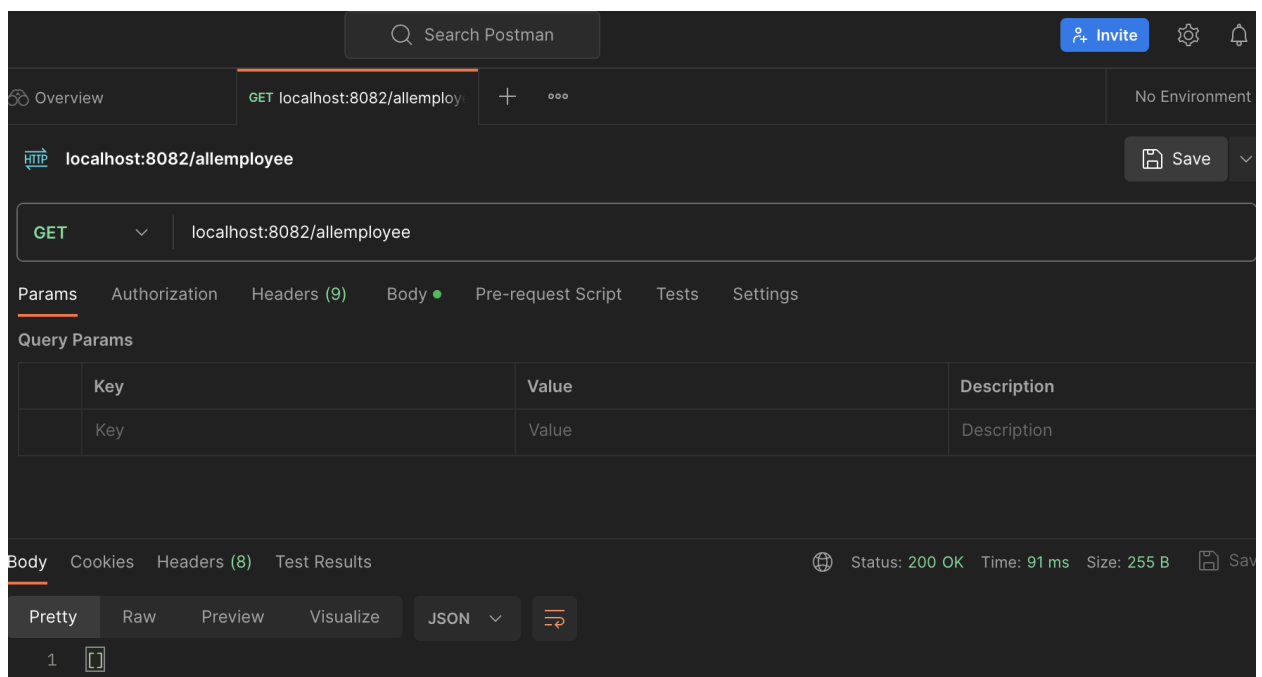
In this section, you will give a detailed description of each manual test case performed and the result. If this is a previous You shall list what are existing tests developed in the previous semester and what are new tests developed currently.

Here is a sample template that can be used for each test case. For system tests or acceptance tests, you may also include some screenshots.

- Test case ID, name
- New or old:
- Test items: (what do you test)
- Test priority (high/medium/low)
- Dependencies (to other test case/requirement if any):
- Preconditions: (if any)
- input data:
- Test steps:
- Postconditions:
- Expected output:
- Actual output:
- Pass or Fail:
- Bug id/link: (this should link to your github issue id)
- Additional notes:

(You can use an additional spreadsheet for this section as well)

- Test case ID: 1
- Test Name: Backend Server Testing for getMapping("/allEmployee")
- Test items: getMapping("/allEmployee")
- Test priority: Medium
- Dependencies (to other test case/requirement if any):
- Preconditions: Server must be actively running
- input data: none
- Test steps: enter 'localhost:8082/allemmployee' into Get Postman'
- Postconditions: status 200 ok, return all employee entity
- Expected output: status 200 ok, empty array (no current employee entity)
- Actual output: status 200 ok, empty array
- Pass or Fail: pass



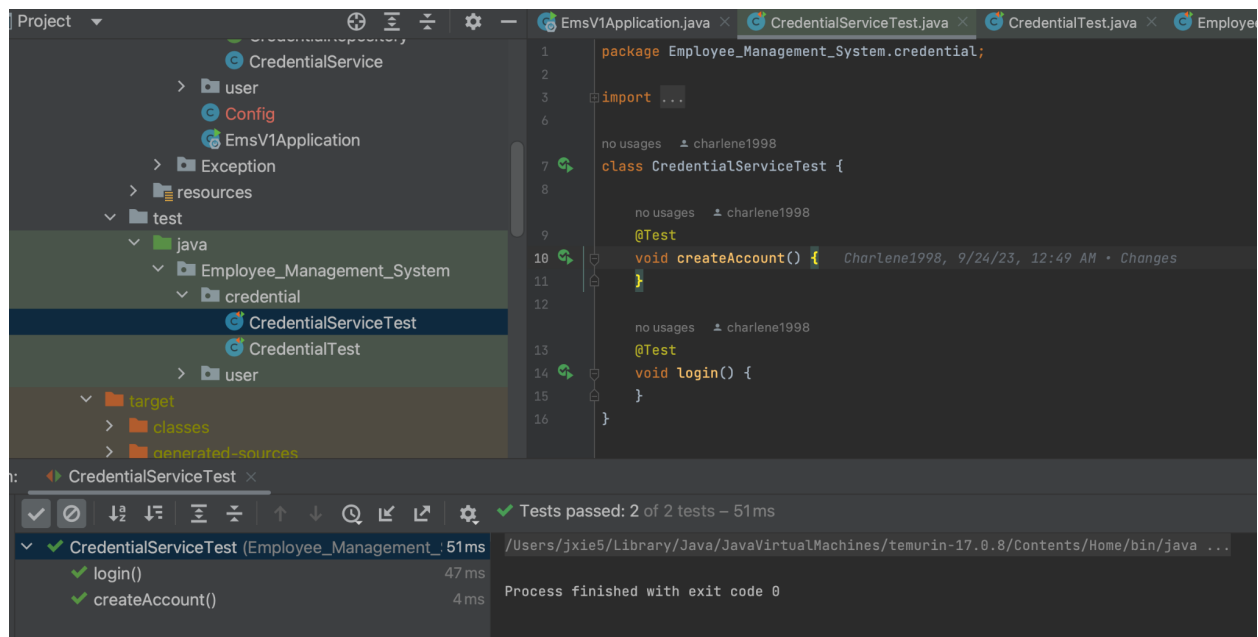
- Test case ID: 1
 - Test Name: Backend Server Testing for getMapping("/allEmployee")
 - Test items: getMapping("/allEmployee")
 - Test priority: Medium
 - Dependencies (to other test case/requirement if any):
 - Preconditions: Server must be actively running
 - input data: none
 - Test steps: enter 'localhost:8082/allemmployee' into Get Postman'
 - Postconditions: status 200 ok, return all employee entity
 - Expected output: status 200 ok, empty array (no current employee entity)
 - Actual output: status 200 ok, empty array
 - Pass or Fail: pass
- Automated Testing Report

Describe briefly the automated testing you have done, including where the test code resides in your code repository, what test frameworks are used, and the screen shots or generated testing report.

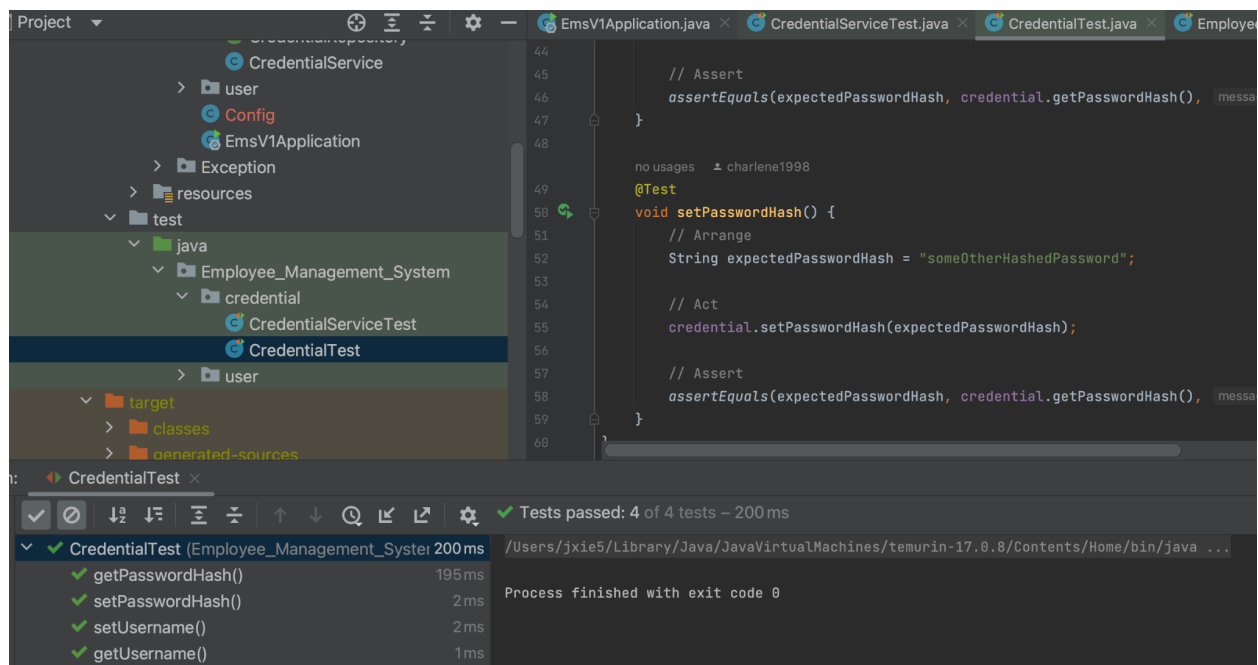
System testing:

These tests reside in project-team-3/code/Employee_management_system/src/test/java/Employee_Management_system according to IntelliJ and under the database-frontend-backend branch. There are currently 2 folders of tests, credential and user.

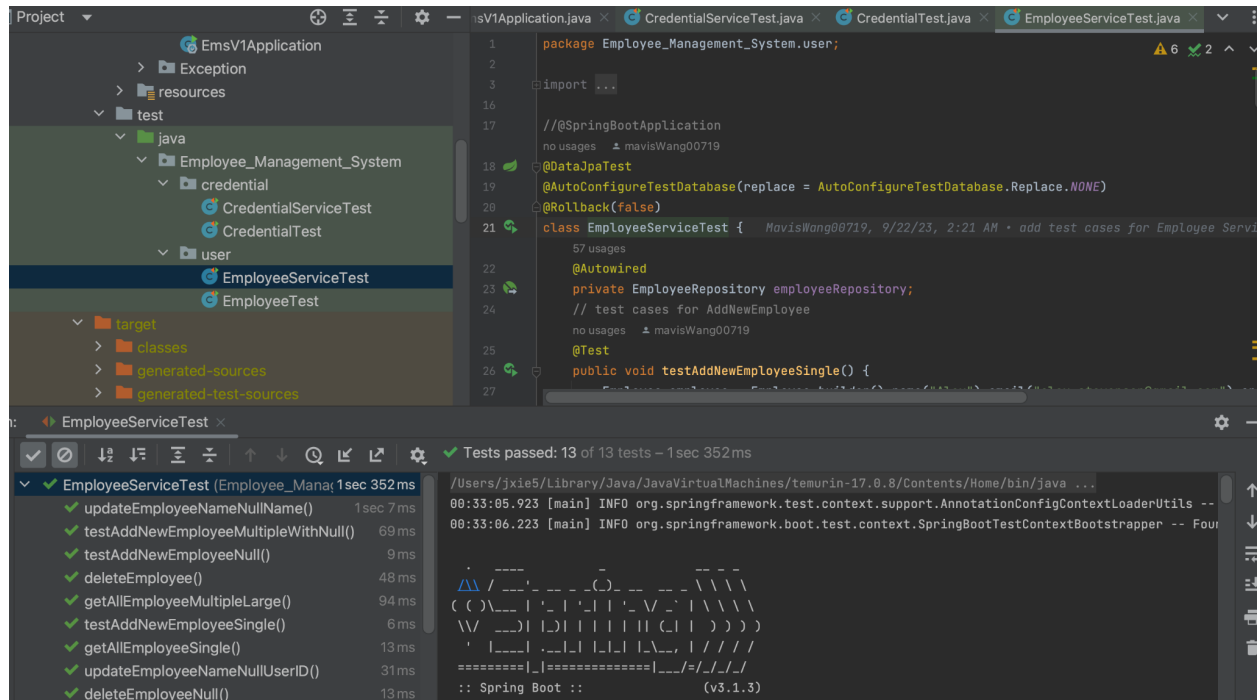
CredentialServiceTest: We are testing the methods of the CredentialService entity.



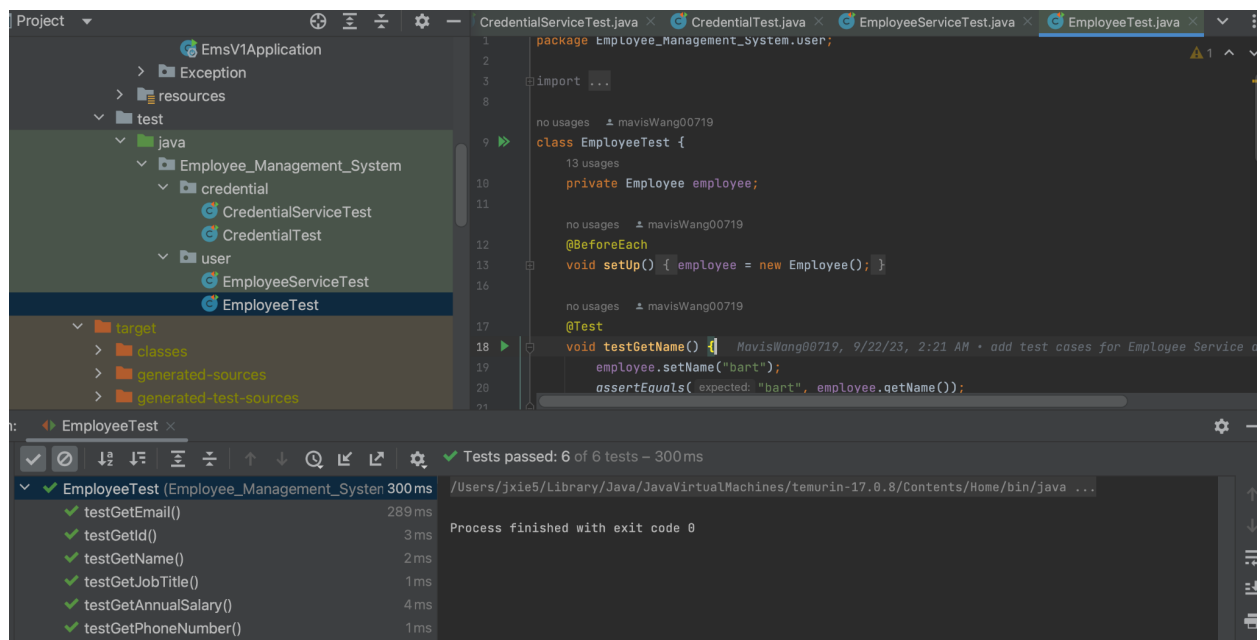
CredentialTest: Testing Credential entity



EmployeeServiceTest: Testing for SpringBoot initialization and EmployeeService class entity methods.



EmployeeTest: Testing for Employee entity's methods.



SpringSecurity:

After adding SpringSecurity dependencies, even if you bypass the front-end login page and go directly to use the method url like “
http://localhost:8800/admin/system/sysRole/findAll”, you will not get the information. It will show that

```
{"code":209,"message":"No permission","data":null}
```

After adding the global variable token, prove that you are logged in. All the methods will work just as before

The screenshot shows a REST client interface with a GET request to `/admin/system/index/getUserInfo`. The request headers include a `token` with a long alphanumeric value. The response is a JSON object indicating success.

请求头	内容	操作
<input checked="" type="checkbox"/> token	eyJhbGciOiJIUzUxMiIsInp0cCI6IkdkaSVAiQ.H4sIAAAAAAAAAAKtWKI5NUrJScgwN8dD18XF39NMNDXY	删除

```

1 {
2   "code": 200,
3   "message": "Success",
4   "data": {
5     "permissions": [
6       "bnt.sysUser.list",
7       "bnt.sysUser.add",
8       "bnt.sysUser.remove"
9     ],
10    "name": "zhangsan",
11    "menu": [
12      {
13        "id": 3,
14        "createTime": "2021-05-31 10:05:37",
15        "updateTime": "2022-06-09 01:22:47",
16        "isDeleted": 0,
17        "param": {},
18        "parentId": 2,
19        "name": "用户管理",
20        "type": 1,
21        "path": "sysUser",

```

Without Token:

The screenshot shows the same REST client interface, but the `token` header is now unchecked. The response is a JSON object indicating a 'No permission' error.

请求头	内容	操作
<input type="checkbox"/> token	eyJhbGciOiJIUzUxMiIsInp0cCI6IkdkaSVAiQ.H4sIAAAAAAAAAAKtWKI5NUrJScgwN8dD18XF39NMNDXY	删除

```

1 {
2   "code": 209,
3   "message": "No permission",
4   "data": null
5 }

```

- Testing Metrics

In this section, you shall report any metrics used for the evaluation, e.g. # of test cases, test coverage, defects rate, etc.

- References

- Glossary

