

Git Repository Address:

<https://github.com/zc87-Leo/Fetch-Rewards-Coding-Exercise.git>

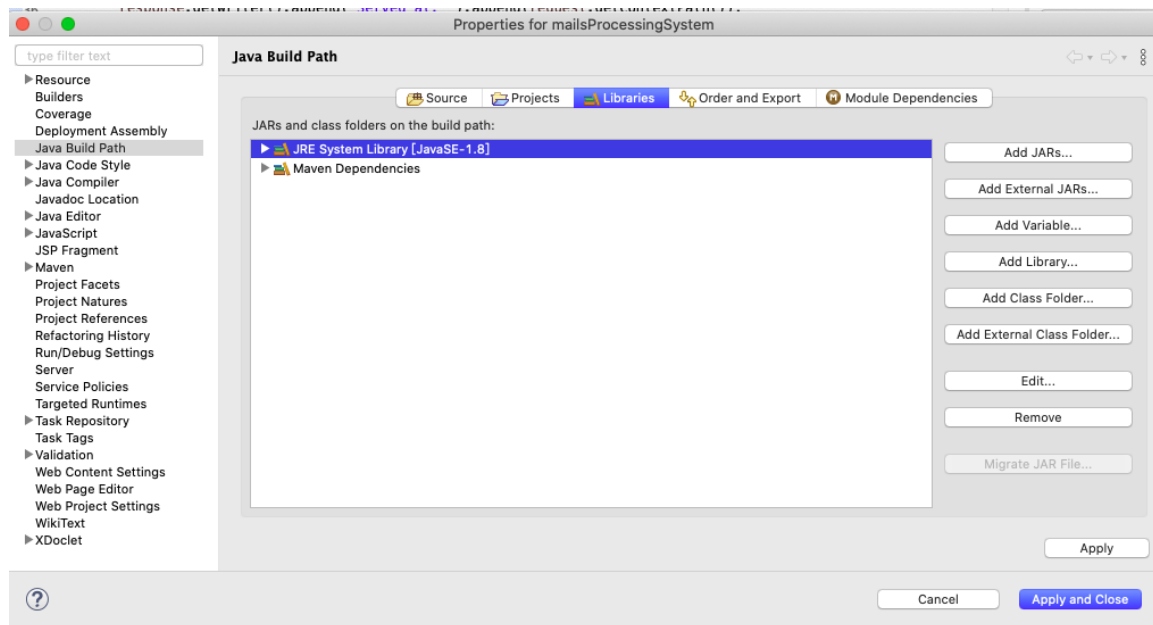
Mail Processing System is a Maven project, and it run on Tomcat.

How to run this project?

Step 1:

When you download successfully and import it into your IDE (I used Eclipse here), you also need to configure a tomcat server.

Step 2: You need to ensure that your excution environment is JAVASE-1.8. **It is very important!**



Step 3:

Add this project on your Tomcat Server.

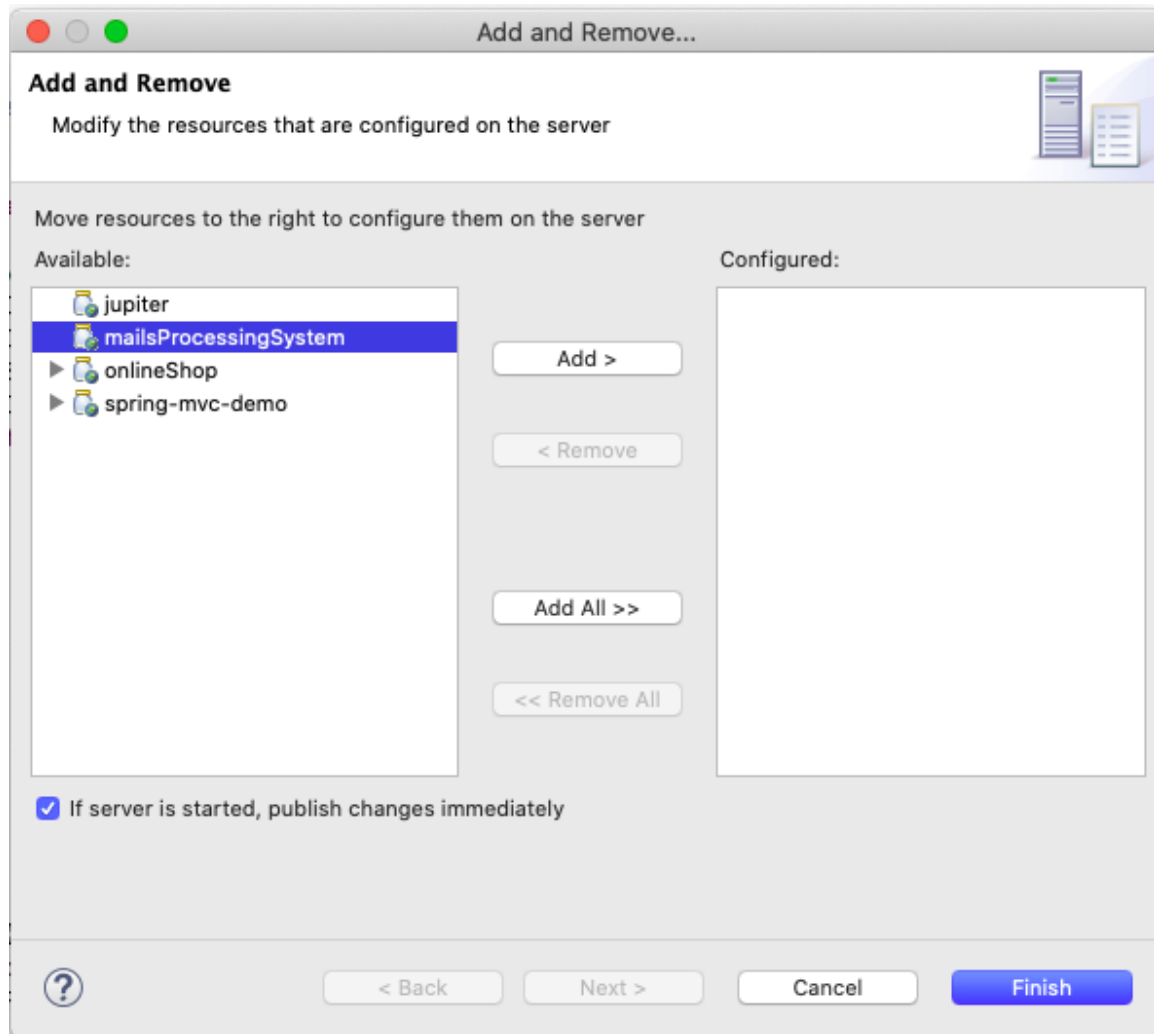
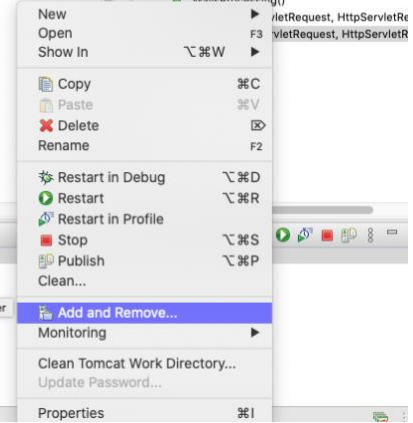
```

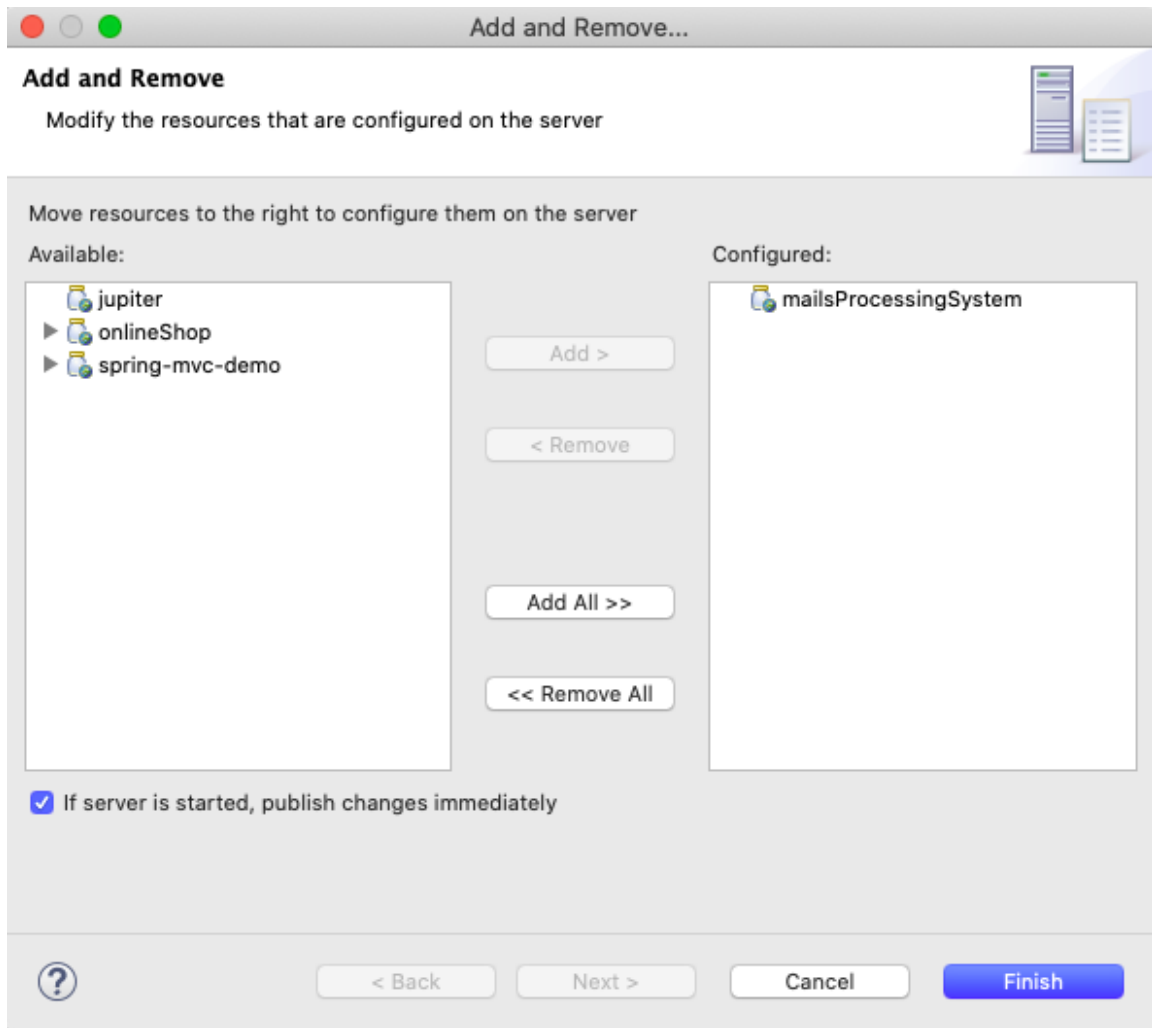
48 Set<String> set = new HashSet<>(); //in order to remove duplicate
49 JSONObject obj = new JSONObject();
50 for (Object j : mailsList) {
51     String s = j.toString();
52     s = s.substring(0, s.length() - 10); // must be gmail (remove "@gmail.com")
53     char[] array = s.toCharArray();
54     StringBuilder sb = new StringBuilder();
55     for (char c : array) { //Logic: 1. Ignore '.'; 2.Ignore the part after "+"
56         if (c == '.') {
57             continue;
58         } else if (c == '+') {
59             break;
60         } else {
61             sb.append(c);
62         }
63     }
64     set.add(sb.toString());
65 }
66 obj.put("number_of_unique_emails", set.size());
67 RpcHelper.writeJsonObject(response, obj);
68 }
69 }
70

```

Problems Javadoc Declaration Console Servers
 Apache Tomcat v9.0 at localhost [Started, Synchronized]

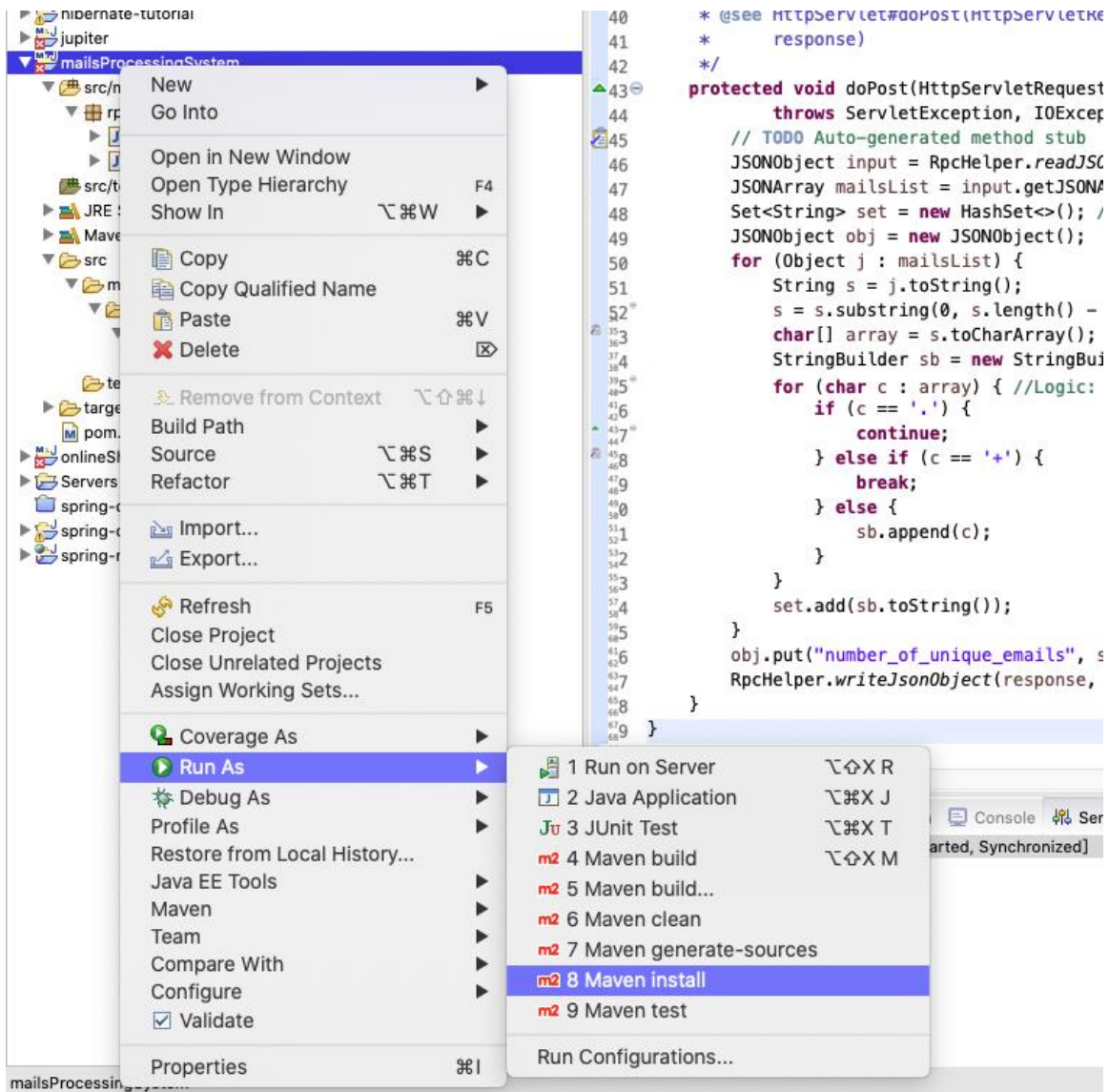
Add and Remove resources to the server



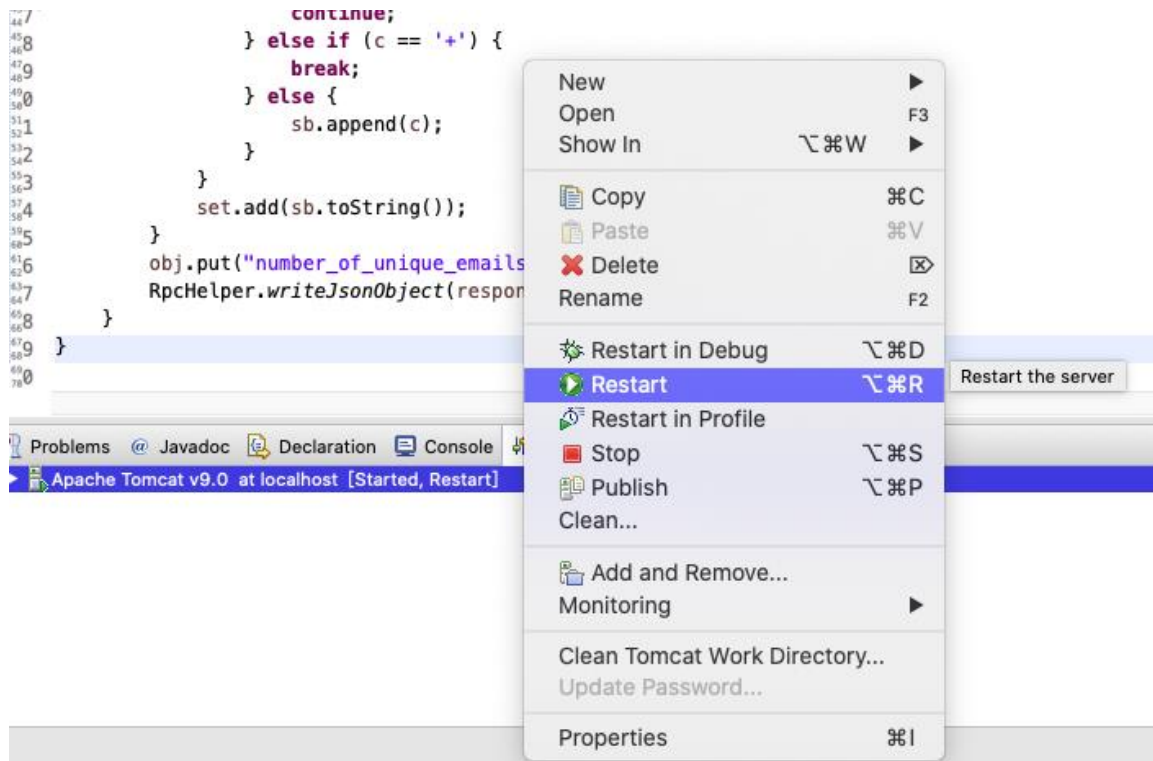


Step 4:

Execute maven install, and after the build success is displayed in the console, restart the tomcat server.



```
Problems  Javadoc  Declaration  Console  Servers
<terminated> /Library/Java/JavaVirtualMachines/jdk1.8.0_231.jdk/Contents/Home/bin/java (2020年9月28日 下午3:25:52)
[INFO] Installing /Users/zhangcheng/eclipse-workspace/mailsProcessingSystem/target/mailsProces:
[INFO] Installing /Users/zhangcheng/eclipse-workspace/mailsProcessingSystem/pom.xml to /Users/:
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.746 s
[INFO] Finished at: 2020-09-28T15:25:55-04:00
[INFO] -----
```



Step 5:

Open your **Postman**:



Use **POST** method: <http://localhost:8080/mailsProcessingSystem/mailsProcessing>

Test:

Request Body 1:

```
{  
  "emails_list": ["test.email@gmail.com", "test.email@fetchrewards.com"]  
}
```

Response Body 1:

```
{  
  "number_of_unique_emails": 2  
}
```

Untitled Request Comments 0

POST http://localhost:8080/emailsProcessingSystem/emailsProcessing Send Save

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "emails_list":["test.email@gmail.com","test.email+spam@gmail.com","testemail@gmail.com"]
3 }
4
5
6
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 14 ms Size: 204 B Save Response

Pretty Raw Preview Visualize JSON ≡

```
1 {
2   "number_of_unique_emails": 1
3 }
```

Request Body 2:

```
{
  "emails_list":["test.email@gmail.com","test.email+spam@gmail.com","testemail@gmail.com"]
}
```

Response Body 2:

```
{
  "number_of_unique_emails": 1
}
```

Untitled Request Comments 0

POST http://localhost:8080/emailsProcessingSystem/emailsProcessing Send Save

Params Authorization Headers (8) **Body** Pre-request Script Tests Settings Cookies Code

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

```
1 {
2   "emails_list":["test.email@gmail.com","test.email+spam@gmail.com","testemail@gmail.com"]
3 }
4
5
6
```

Body Cookies Headers (5) Test Results Status: 200 OK Time: 14 ms Size: 204 B Save Response

Pretty Raw Preview Visualize JSON ⌵

```
1 {
2   "number_of_unique_emails": 1
3 }
```

Bootcamp Build Browse 📄 🔍 📁 🔗 ?

Thanks for reading, have a nice day 😊!