



**POLITECNICO**  
MILANO 1863

**Acceptance**  
**Testing Document**

**Software Engineering 2**

Emanuele Cimino - Gabriele Lorenzetti

Prof. Di Nitto Elisabetta

## Contents

<b>Table of Contents</b>	<b>2</b>
<b>1 Tested Project</b>	<b>3</b>
1.1 Authors and Repository	3
1.2 Documents Considered	3
1.3 References	3
<b>2 Installation Setup</b>	<b>4</b>
<b>3 Acceptance test cases</b>	<b>5</b>
3.1 Test strategy	5
3.1.1 Login/Registration - UC 1/2/3	5
3.1.2 Logout - UC4	5
3.1.3 Data modification - UC5/6	6
3.1.4 Search - UC7	6
3.1.5 Internship Analytics page - UC8	6
3.1.6 Chat page - UC9	6
3.1.7 Selection process for students - UC10	7
3.1.8 Selection process for companies - UC11	7
3.1.9 Complaint resolution process - UC12 - first part	7
3.1.10 Complaint resolution process - UC12 - second part	7
3.1.11 Recommendation and Application Acceptance - UC13	8
3.1.12 Feedback Submission - UC14	8
<b>4 Project Inspection</b>	<b>9</b>
4.1 Quality of documentation	9
4.1.1 RASD	9
4.1.2 DD	9
4.2 Quality of code	9
<b>5 Effort Spent</b>	<b>10</b>

# 1 Tested Project

## 1.1 Authors and Repository

- Barbieri Alessandro
- Di Lorenzo Flavio
- **Repository**

## 1.2 Documents Considered

- RASD: Requirement Analysis Specification Document
- DD: Design Document
- ITD: Implementetion and Testing Document

## 1.3 References

- "A.Y. 2024-2025 Software Engineering 2 I&T assignment goal, schedule, and rules"

## 2 Installation Setup

In order to proceed with the installation of the Project, we followed the instruction given in ITD.

1. We installed **Tomcat 9.0.98**, unzipping files and starting it from the start.bat file in the bin folder.
2. We tried to install **MySQL Workbench 8.0.41**, but when installed, we had problem in establish a connection to the server because, doing this procedure, we did not had set the password for the root user, and it was not working. We solve it, through the pre-emptive downloading of MySQL Server 9.0.2 **MySQL Server** and then the installation of MySQL workbench as written, the connection was now established.
3. We opened the project in IntelliJ Idea Ultimate and we added the Tomcat Server and found the module as in the guideline given in the ITD.

The provided links in this section are here beause they were not present in the ITD.

### 3 Acceptance test cases

After the installation setup, we started by trying to use the website through the frontend, first by trying the sign Up function, but instead of a success, we received a error 404 from the server, that we assume it works properly since the homepage is found. So, the provided SQL code had a typo and we were not able to register anyone to the platform; it was briefly corrected by the team. Once this was resolved we were able to use the platform and we started doing some tests.

#### 3.1 Test strategy

To test the application, we analysed the state diagrams and use cases provided in the RASD and tried to emulate their flow.

##### 3.1.1 Login/Registration - UC 1/2/3

- **Test steps**

1. Provides requested information
2. If registration clicks on “Student” / “Company” and add other info
3. Clicks on “Login” / “Register”

- **Test cases**

1. Account with correct data
2. Account with the same Email
3. Account with empty field
4. Account non registered tries to Login

- **Results**

1. Registration/Login successful
2. Registration Denied - 401
3. Cannot click on login
4. Login Denied - 400

The Email confirmation sending cited in the RASD has not been implemented. We noticed that the password were not encoded in the database. We thinks that is a bad practice.

##### 3.1.2 Logout - UC4

- **Test steps**

1. Clicks on “Logout”

- **Results**

1. User logout of the platform

### 3.1.3 Data modification - UC5/6

- **Test steps**

1. Click on “Modify CV” or "insert/modify internship" from the home page

- **Test cases**

1. Correct info
2. Out of bounds input

- **Results**

1. Correctly updated CV - internship
2. Exception handled - invalid

### 3.1.4 Search - UC7

- **Test steps**

1. Student inserts keyword

- **Test cases**

1. Correct search-keyword
2. Not correct search-keyword

- **Results**

1. Return results
2. Does not return result

We noticed in testing that respect to the ITD, even if it has a simplified implementation than RASD, we can only search through the internship name and not the company name, not as specified.

### 3.1.5 Internship Analytics page - UC8

Skipped as it was not object of the implementation and testing project

### 3.1.6 Chat page - UC9

- **Test steps**

1. Select message button in home page
2. Write message
3. Send message

- **Results**

1. Other user involved notified, history of the chat visible if exists

### **3.1.7 Selection process for students - UC10**

- **Test steps**

1. Student apply by clicking the button on the internship in the internship list
2. If accepted and the questionnaire is sent, compile it
3. Eventually reject the interview date

- **Results**

1. Student is applied, and eventually the compiled interview is uploaded

### **3.1.8 Selection process for companies - UC11**

- **Test steps**

1. Company clicks on button "myInternship" and select the internship
2. Selects student and see his information and CV, if present, and clicks on button "Accept" or "reject" for the student
3. Company, if accepted the student, can upload questionnaire, schedule the interview date or directly start/reject the internship

- **Results**

1. Internship is started/rejected, or interview is scheduled or questionnaire is available

### **3.1.9 Complaint resolution process - UC12 - first part**

- **Test steps**

1. Writes complaint in a text box in My Internship page
2. User selects Upload complaints button in My Internship page
3. Send complaint

- **Test cases**

1. Empty box sent
2. Correct data inserted

- **Results**

1. Cannot send the box
2. The other user can see the complaint and resolve the issue

### **3.1.10 Complaint resolution process - UC12 - second part**

- **Test steps**

1. Users receive complaint notification
2. User close complaint

- **Results**

1. Complaint closed

We did not understand well what was the purpose of button reject closure, because every time it was used, it gave an error

### **3.1.11 Recommendation and Application Acceptance - UC13**

Skipped as it was not object of the implementation and testing project.

### **3.1.12 Feedback Submission - UC14**

- **Test steps**

1. Company end the internship
2. Student goes to my Internship Page
3. Upload feedback

- **Test cases**

- Sends empty feedbacks
- Sends compiled feedback

- **Results**

1. Insert default rating setting
2. Insert values



## 4 Project Inspection

### 4.1 Quality of documentation

#### 4.1.1 RASD

- **State diagram 2.1.3:** We found an issue on the state diagram regarding the selection process. A student can be selected without compiling a questionnaire and neither doing an interview, it seems not the correct way to handle the selection process.
- The whole sections on: performance requirement, design constraint and software system attributes are missing in chapter 3
- Class diagram and use cases are compliant with the implementation

#### 4.1.2 DD

- On pages 9 and 12 there are some commented TODOs, it's not nice.
- In section 2.5.3 where is described the type function, POST or GET, is not specified in none of the function the request body, success code, error code; the fields are empty.
- The sections 2.7 (Others design decision) and 3 (USER INTERFACE DESIGN) are left empty, there are only the titles. Even if the user interfaces design are well explained in the RASD

### 4.2 Quality of code

For what concern the code, it is clean and it is in order, some more comment would have been appreciated but it was, as said well structured. The exception are well handled. Even if, just the exception that occurs when we try to end an already ended internship has an incorrect message, even though it prevents a wrong action.

## **5 Effort Spent**

We tested the application and wrote this document together for a total of 7,5 hours; of which 3 only for the installation and running of the project.