



POLITECNICO
MILANO 1863

SOFTWARE ENGINEERING II

STUDENTS&COMPANIES - IMPLEMENTATION DOCUMENT

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link repo github

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1 Installation Setup

In order to install the application we followed the instructions provided in the chapter 7 of the ITD founded on the github repo. We didn't face any problem and we were able to run the program without any sort of difficulties.

2 Acceptance phase

To accept the software, we tested all the functionalities marked as implemented in the ITD document. We verified that each of them was indeed implemented and functioning correctly. We primarily tested them manually by simulating the experience of a final user in interacting directly with the software. Some functionalities could not be tested due to the software's incompleteness, which prevented further testing.

NOTE: After discussing with the evaluated team, it emerged that the software does not function correctly when starting with an empty database. This is due to conflicts arising when multiple users from different roles (students, companies, universities) share the same ID. Therefore, the following tests were conducted by manually modifying the data in the database to ensure that each user had a unique ID. Moreover the table "Skills" needed to be filled it manually

2.1 Login and Signup test case

2.1.1 Test procedure

- On the homepage select "register as student/company/university".
- Fill in the shown form and click the register button
- Click the login button
- fill in the form to access as student/company/university and click the login button

2.1.2 Test outcome

The user is correctly generated and the login procedure works as intended. The sign-up process works properly without any visible issue.

2.2 Upload Cv test case

2.2.1 Test procedure

Login with a student without a cv and in the home page click on the button "upload cv", fill in the form and submit.

2.2.2 Test outcome

The publication of the cv seems to work fine, but we suggest to put something to let the student know if the information were in the correct format.

2.3 Modify Cv test case

2.3.1 Test procedure

Login with a student with a cv and in the home page click on the button "upload cv", modify some fields and then submit.

2.3.2 Test outcome

The modify CV page shows the previous answers for all the fields, except for the skills fields which remain empty. After the update of some of them and the submit, the student is redirected to the home page, but after selecting again "upload CV" the modification page shows again the data uploaded the first time, which means that the modification didn't work properly.

2.4 Delete CV test case

This test can't be done because in the modification page there isn't any interface to delete the CV.

2.5 Upload Internship test case

2.5.1 Test procedure

Login with a company without an internship and in the home page click on the button "upload internship", fill in the form and submit.

2.5.2 Test outcome

The publication of the internship seems to work fine.

2.6 Modify Internship test case

2.6.1 Test procedure

Login with a company with a internship and in the home page click on the button "upload internship", modify some fields and then submit.

2.6.2 Test outcome

The modify Internship page shows the previous answers for all the fields, except for the skills fields and the questions which remain empty. After the update of some of them and the submit, the page will refresh showing the old value without any changes.

2.7 Delete Internship test case

This test can't be done because in the modification page there isn't any interface to delete the Internship.

2.8 Apply for internship Test Case

2.8.1 Test procedure

After the insertion of one internship from a company, login with a student and browse the internship to find the uploaded one, select it and apply. Then check the company notification section to verify if the apply notification has arrived. Now, with the company, review the answers and accept or reject the student.

2.8.2 Outcome

- On the student side: the internship search functionality seems to work properly, allowing students to select an uploaded internship. After selecting an internship, students can view detailed information about the project. By clicking on "Apply," they can answer the questions and submit their application. However, the system currently allows a student to apply to the same internship multiple times and also submit applications for internships that have already ended.
- On the company side: after the student submits the application, the notification page will display a notification of the application to the company. When the notification is opened, the company can view the form's answers. There are buttons to accept or decline the application, but currently, they do nothing when clicked.

2.9 Match making Test Case

2.9.1 Test procedure

Upload multiple internships for a company. Then, create a CV for a student that has skills matching only one of these internships. Log in as the student, go to the "Browse Internships" section, and sort by "Matching." Verify that the internship with the same characteristics as the CV is at the top of the list.

2.9.2 Outcome

The matched internships are shown at the top of the global list as expected

2.10 Feedback Test Case (Student side)

2.10.1 Test Procedure

After an apply is confirmed (by modifying the database because it can't be done through the application) with ending date before the current date, login with

the student and then, in the home page, click on release feedback, select the internship and then write the feedback.

2.10.2 Outcome

The feedback page allows the user to select the internship but, after clicking the button to write it, the system redirects to an error page with the title: "method not allowed" and make it impossible to write the feedback.

2.11 Feedback Test Case (Company side)

2.11.1 Test Procedure

After an apply is confirmed (by modifying the database because it can't be done through the application) with ending date before the current date, login with the company and then, in the home page, click on release feedback, select the internship and then write the feedback.

2.11.2 Outcome

After clicking on release feedback the application will redirect the client on an error page with the title "BuildError".

2.12 Complaint Test Case (student side)

2.12.1 Test Procedure

When a student has an active internship, login in as student and click the "complaint" button. Then write the complaint and send it.

2.12.2 outcome

As soon as the login is completed, the application crashes, making it impossible to test further.

note: the internship was marked as active manually on the DB, since it's impossible to do so following the application flow. It's yet possible that the crashed is due to the manual modification of the DB.

2.13 Complaint Test Case (company side)

2.13.1 Test Procedure

When a student has an active internship, login in as student and click the "complaint" button. Then write the complaint and send it.

2.13.2 Outcome

The "complain button" is not showed so it's impossible to execute the test.
note: the internship was marked as active manually on the DB, since it's impossible to do so following the application flow.

3 Effort Spent

The table below show the number of hours that each member of the group worked for the ATD document.

Member	Hours
Elia Priuli	14h
Veronica Viceconti	8h
Marco Zuccoli	17h

4 Reference

1. revised group's github repo