Students & Companies

Acceptance Test Document

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Contents

1 Tested project

Authors

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GitHub Repository

- https://github.com/felixsrp/RojasJinLe

Reference Documents

- **RASD**
- **DD**
- **ITD**

2 Installation

2.1 Environment Setup

1. We utilized **MacOS** as our testing environment.
2. We cloned the repository and entered its folder.

```
git clone git@github.com:felixsrp/RojasJinLe.git
cd RojasJinLe/
```

2.2 Backend Installation

1. We moved into the backend directory.

```
cd backend/
```

2. We installed **Node.js** (v16.x) and **npm**.
3. We installed **Docker Desktop** for MacOS.
4. We ensured Docker was running and started the necessary containers.

```
docker compose up -d postgres adminer maildev
```

5. We installed the backend dependencies.

```
npm install
```

6. We copied the environment variables file.

```
cp .env.example .env
```

7. We ran the database migrations.

```
npm run migration:run
```

8. We populated the database with test data.

```
npm run seed:run:relational
```

9. We started the backend server.

```
npm run start:dev
```

10. We accessed the backend API at **http://localhost:3000**.

2.3   Frontend Installation

1. We downloaded and installed **Android Studio** from the official website.
2. We launched the **Android Emulator** using the **Virtual Device Manager**.
3. We installed the application by dragging and dropping the APK into the emulator.
4. We verified that the application was launched correctly.

2.4   Conclusion

The installation process proceeded smoothly without any issues.

3 Test cases

3.1 Testing

This section outlines the test procedures we conducted to evaluate both the functionality and adherence to the project product's functions, as outlined in the RASD. Each test case was designed to include the most relevant usage scenarios from the user's point of view. Below is a complete list of the test cases performed to validate product performance and compliance. For each one, the objective, the steps performed, the cases considered and the results obtained are indicated.

3.1.1 Sign up and login for a student

- **Goal:** Verify that the student can sign up and log in.
- **Steps:**
    1. Open the application.
    2. Click on the "Sign up" button.
    3. Fill in the required fields.
    4. Click on the "Log in" button.
    5. Fill in the required fields.
- **Cases:**
    - The user fills in all the fields correctly.
    - The user fills in the fields incorrectly.
    - Already existing email.
    - Already existing phone number.
    - Upload a big file as CV.
- **Results:**
    - **Successes:**
        * The user can sign up and log in to the application.
    - **Issues Found:**
        * A user can sign up with credentials that have already been used, or anyway the app does not provide errors if the email or phone number have already been used for another account.
        * A user can use an invalid format for the email, the feedback of the system shows that the user has been registered successfully but the user can't log in.

3.1.2 Sign up and login for a company

- **Goal:** Verify that the company can sign up and log in.
- **Steps:**
  1. Open the application.
  2. Click on the "Contact us" button.
- **Cases:**
  - The company contacts the platform to create an account.
- **Results:**
  - **Issues Found:**
    * The company can't contact the platform to create an account. This process can't be tested because the button doesn't work.

3.1.3 Profile and CV management

- **Goal:** Verify that the user can upload the CV.
- **Steps:**
  1. Open the application.
  2. Click on the "Sign up" button.
  3. Fill in the required fields including the CV.
  4. Click on the "Sign up" button.
- **Cases:**
  - Upload a big file as CV.
- **Results:**
  - **Successes:**
    * The user can sign up and log in to the application.
  - **Issues Found:**
    * The application doesn't check if the CV is bigger than 5 MB (it is written that the file size limit is 5MB - RASD R8).
    * The system can't give the possibility to the user to update the CV after the registration (RASD R11).

3.1.4 Internship management

- **Goal:** Verify that the company can create, edit and delete an internship.
- **Steps:**
  1. Login in the application.
- **Cases:**
  - Create a new internship.
  - Edit an internship.
  - Delete an internship.
- **Results:**
  - **Successes:**
    * The company can create an internship.
  - **Issues Found:**

* The company can't edit or delete an internship (RASD R13).

3.1.5 CV/internship description suggestion

According to the project specification, this feature is not implemented.

3.1.6 Internship search and recommendation

- **Goal:** Verify that the system allows companies to create internships, students to search for internships using skills and filters, and students to receive personalized internship recommendations.
- **Steps:**
  1. Log in as a company.
  2. Navigate to the "Add Internship" section.
  3. Fill in the internship details, including the required skills.
  4. Click the "Submit" button.
  5. Log out and switch to a student account.
  6. Navigate to the "Application" section.
  7. Use the search bar to enter one of the required skills (e.g., "Python").
  8. Verify that the newly created internship appears in the results.
  9. Apply the "Location" filter with different values (e.g., "Amsterdam", "Remote", "Milan").
  10. Observe whether the internship results change based on the selected location.
  11. Navigate to the "Recommendations" section to view personalized suggestions.
- **Cases:**
  - Correct flow.
- **Results:**
  - **Successes:**
    * The system correctly allows companies to create internships.
    * Searching for internships using skills works as expected.
  - **Issues Found:**
    * The location filter does not work properly; results remain the same regardless of the selected location.
    * The recommendation system is unstable: initially, it provided suggestions correctly. Later, it caused critical errors, such as the student being unexpectedly switched into a company profile previously accessed, or the application crashing when clicking on the "Recommendations" section.
  - The feature to save internships to "Favorites" has not been implemented.

3.1.7 Internship application process

- **Goal:** Verify the hiring process.
- **Steps:**
  1. Student applies for an internship.
  2. Company sees the application.
- **Cases:**
  - Company sees the application and their CVs.

- – Company accepts the application.
- – Company rejects the application.
- – Student sees the result.
- – Student apply for more than one internship.
- **Results:**
    - **Issue found:**
        - * The company can't see the CV uploaded by the student, but only a dummy document (RASD R15).
        - * A student can apply for other internships even if he has already an ongoing internship, and a new company can accept the application such that the student can have more than one ongoing internship.

3.1.8 Questionnaire and interview

- **Goal:** Verify that the system allows companies to add questionnaires and interviews for candidates, and that students can see the added links.
- **Steps:**
    1. Log in as a company.
    2. Click on the internship in which to add the questionnaire and the interview for the new candidate.
    3. Select a new candidate from the list.
    4. Click on the "Add Questionnaire" button.
    5. Enter the questionnaire details, including a link to the form.
    6. Click "Confirm" and verify that the questionnaire is added to the candidate's profile.
    7. Click on the "Add Interview" button.
    8. Enter the interview details, including a date, time, and a link to the meeting.
    9. Click "Confirm" and verify that the interview is added to the candidate's profile.
    10. Log out and switch to a student account.
    11. Navigate to the "Application" section.
    12. Verify that the questionnaire link appears in the corresponding section.
    13. Verify that the interview link appears in the corresponding section.
- **Test Cases:**
    - – Correct flow.
- **Results:**
    - – Companies can successfully add questionnaires to candidates.
    - – Companies can successfully add interviews to candidates.
    - – Students can see both the questionnaire and interview links in their application section.

3.1.9 Notifications and reminders

- **Goal:** Verify that the user can receive notifications and reminders.
- **Steps:**
    1. Login in the application.
    2. Search the button of the notifications.
- **Cases:**

- – The user receives a notification.
- – The user receives a reminder.
- **Results:**
  - **Not implemented:**
    - * The user has no notification button (RASD R26).

However, there is the recommendation button, but if a student clicks on it, the app crashes.

3.1.10 Complaints and feedback

- **Goal:** Verify whether the system allows students and companies to submit feedback about internships and whether the feedback is used for optimizing the recommendation algorithm.
- **Steps:**
  1. Log in as a student.
  2. Navigate to the profile section.
  3. Click on the "Send Feedback" button.
  4. Select a rating.
  5. Write a comment.
  6. Click "Submit".
  7. Repeat the same steps while logged in as a company.
- **Test Cases:**
  - – Correct flow – The user submits feedback with a rating and a comment.
  - – Feedback submission with an empty or incomplete comment field.
  - – Multiple submissions – The user submits feedback multiple times.
- **Results:**
  - **Successes:**
    - * The system allows students and companies to submit feedbacks correctly.
    - * Feedback is only submitted when both a rating and a comment are provided.
  - **Issues Found:**
    - * Users can submit feedback multiple times without restrictions.
    - * There is no way to view the submitted feedback after sending it.
  - **Not Implemented:**
    - * The system does not use feedbacks for the ended internships (RASD R27).
    - * According to the project specifications, this feature is not implemented (RASD R28).
    - * According to the project specifications, this feature is not implemented (RASD R29).

3.1.11 Chatroom

According to the project specifications, this feature is not implemented.

3.2 Further notes

We would have suggested that the development team considered creating a website instead of an Android-only app, as it might have been more practical to implement. Additionally, we noticed some issues with the app's functionalities, for example, clicking the 'Recommendation' button causes it to crash, and the company is only able to download a dummy document instead of the actual CV

uploaded by the student. Moreover, the prototype we received does not appear to fully align with the project specifications, and its usability could be improved.

4   Effort spent

Unit	Member	Hours
Testing	Ostidich, Salari, Rivitti	15
Report	Salari, Rivitti	5