

# ECSE 321 - Intro to Software Engineering

## Deliverable 6 Report

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# 1 Implementation

## Main Features Correctness Comments:

- **Desktop:**
- **Web:**
- **Mobile:**
  - 1.4.1 - The mobile application only allows student profiles to login
  - 1.4.2 - The mobile application was written in java
  - 1.4.3 - The mobile application only used libraries provided by android studio and no other tools were used
  - 1.4.4 - The students may store their student ID in their description as a string.
  - 1.4.5 - The application uses a controller to load job postings from persistence
  - 1.4.6 - The application lists all the job postings to the user in a separate view
  - 1.4.7 - This was not fulfilled since the administration can view other jobs that the student has applied for and can control whether or not he will get the job
  - 1.4.8 - The user is not able to specify his preferences and rank his applications. He instead is given the choice to choose which offers he will ultimately accept
  - 1.4.9 - The mobile application retrieves job offers from persistence
  - 1.4.10 - The mobile application displays job offers to the user
  - 1.4.11 - The student may accept or reject job offers

## 2 Usability of Application

- **Desktop:** The desktop program shall be run by double clicking on the .jar file of the program. The output directory gets initialized in the same directory as the .jar file is located in. All saved data (persistence data) is stored in this output folder. No installation is necessary with the use of the .jar file. Full deletion requires the deletion of the output folder and the .jar file, and if the user has forked the repository, the user would need to delete the local repository as well.
- **Web:** The Web application is accessed through the web and doesn't host any permanent or temporary files client-side. The user is required to access the server that hosts the website.
- **Mobile:** The mobile program shall be released as an apk file that may be installed on an Android phone. Once the apk file is installed, the user may use the application on the phone.

## 3 Testing of Applications

- **Unit Testing:**
- **Integration Testing:**
- **System Testing:**

### 3.1 Testing Conclusion

**Description:**

**Rationale:**

## 4 Release Pipeline

The release pipeline shall follow the plan as in deliverable 4's report. Every release shall follow semantic versioning: MAJOR.MINOR.PATCH. With the first release being V1.0.0. During deployment, the Travis script shall invoke the scripts: ant export-desktop, ant export-web, and ant export-mobile. These shall export the necessary jar, apk, and web files.

- **Desktop:** The Executable Desktop JAR archive shall be released. The APP/Desktop directory shall be released as a repository.
- **Web:** The Web Application zip archive shall be released. The APP/Web directory shall be released as a repository.
- **Mobile:** The apk file of the android program shall be released. The APP/Mobile directory shall be released as a repository.

### 4.1 Future Releases

## 5 Overview of Individual Work Hours

- **Matthew:** 40+ Hours
- **Harley:**
- **Jake:** 420+ hours
- **Camilo:**
- **Robert:**

## 6 Leadership and Responsibilities for Each Phase

### 6.1 Design:

**Matthew:** Involved in Design of Domain Model, Software Architecture, Use Case Diagram, and Behavioral Sequence Diagram.

### 6.2 Development:

**Matthew:** Involved in updating necessary changes to Domain Model and Detailed Domain Model during this phase.

### **6.3 Validation:**

**Matthew:** Involved in Unit Testing Desktop application. Involved in implementing new Desktop application features under a Test Driven Development Paradigm.

### **6.4 Release:**

**Matthew:** Involved in Deployment Phase of Software System. Suggested to use Travis CI as Deployment Tool and GitHub Releases as a release hosting solution. Implemented Travis CI as a CI tool.