

School of Computing

Year 4 Project Proposal Form

SECTION A

Project Title _____ Jobder _____

Student Name _____ Adrian Rabbitte _____

Student ID _____ 14500447 _____ Stream __CASE_____

Project Supervisor Name _____ Jennifer Foster _____

The Android application Jobder is an android application which will aid in the employment of employees especially directly towards Students, People with no qualifications and People with poor lexical skills. Jobder will employ a simple interface to allow the user to adapt to the application quickly and to minimise to fear in creating a CV.

This Application will consist of the employer contacting the employee without where the employer is anonymous the employee before the employee is contacted.

The application will consist of two modes the Employee and the Employer. Here are the steps of the application for each mode respectively.

Employee.

1) LOGIN / SIGN UP.

The Employee will be given the choice to either sign up or login.

2) Create Profile/ Edit Profile.

Here the employee will be allowed to create a new profile or edit their profile. For their profile picture they will be allowed to take a picture using the built-in camera from the application or upload a picture from their album. The employee will have certain fields to fill in e.g. Skills, Description, Previous Employment. The employee will fill in these fields which their grammar and a spelling will automatically be corrected. This layout will help people with very poor lexical skills and people who never created a CV to complete it under simple headings. The employee will have to pick certain fields he/she is interested in working in, e.g. Painting, Pub Worker. This is minimal work in terms of the reward of a job.

3) Swap Jobs.

This feature in the application will allow people who live in housing estates or in rural areas help swap their skills where their economy won't be damaged. Here the user who is looking for a task to be complete in a certain field will be allowed to view profiles in their area. e.g. If I am good at painting but I am in need for a person who is a plumber, where the plumber is looking for someone to Paint they can swap their skills for a day.

Employer.

1) LOGIN / SIGN UP.

The Employer will be given the choice to either sign up or login.

2) Chose area/ areas of employment search.

When the employer clicks on certain fields e.g. Painting. All the employee's profiles in the set area will be displayed by their profile pictures, age and distance on google maps API.

4) View Profile.

The Employer can now see all the available workers on google maps API. The Employer can now click onto their picture and view their profile which will consist of their CV. If the Employer is satisfied with the employee He/ She has the opportunity to instant message the employee to agree on a fixed term of work.

4) Rating

When the work is completed the employer has the chance to rate the employee and comment on his/her work, this feature will only be visible for the Employer to avoid certain conflicts between the two parties.

5) Settings

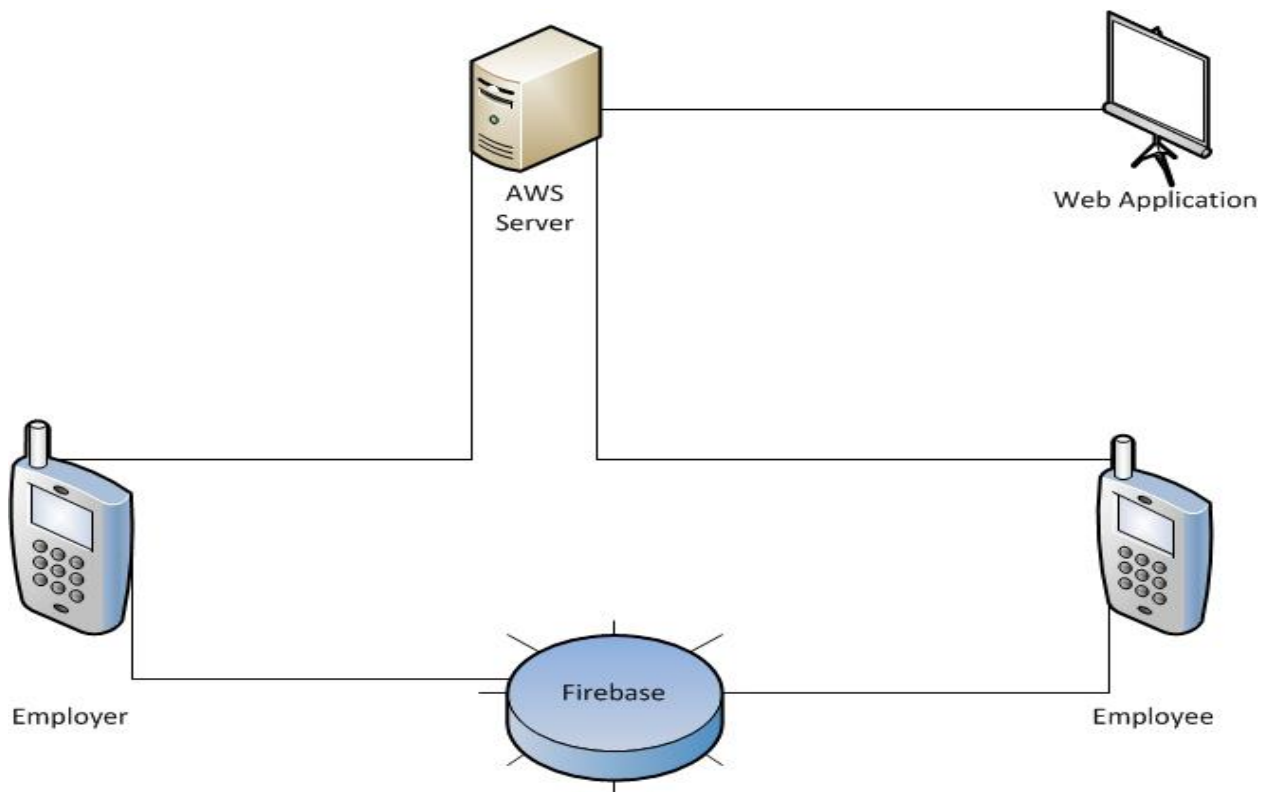
The employee will have customizable settings. He / She will have the ability to view workers inside a certain range of distance. e.g. View all the workers within a 20-km radius. The employee can also set certain searches within the application if they are looking for a particular worker with a high rating, this will be running in the background and the employer will receive a notification when the employee is found.

6) Web Application.

There will also be a web application for administration purposes. This will be used to add fields of employment into the application. The web app will also record and keep stats of improved employment areas and keep track of good employees from bad. The web application will also be able to highly recommend these employees to employers using push notifications. The web application will create charts for analysing the rate of the employment industry, and to see where future employment is going for the future.

This is a very straight forward explanation of the application. There are a number of certain features such as a system of push notifications. e.g. If the Employer clicks on a field and there are no employees available, once an employee is registered in that field in the future a notification will automatically be sent to the employer indicating that there are employees available in that field. Also, employees that receive high ratings will be advertised as a notification to employers. (Highly Recommended).

Here is a simple diagram of how the system communicates.



Background.

The application idea came to me when I started my internship programme. There were a number of friends that were finding it difficult to get employment. However, there was work available but due to the lack of communication these jobs were not filled. I was offered a job by my local neighbour who was not aware I was undergoing my internship, so I asked a friend to fill in for him. This was because he was unaware of people who were free and willing to complete the work.

Achievements.

I feel that this application will provide and fix the employment barriers in the future by the simple scroll of the app. This is an area that has not been considered in terms of employment. There are other applications that help people who have qualifications but Jobder is aimed at a different target groups.

Justification.

I feel that that this application will be used by all people who is having difficulty in search of employment and people who are looking for employees. The application can be used by all age groups due to its simple interface which is a massive factor which I learned from our Human Computer Interaction last year.

Programming Languages.

Java.
Xml.
PHP
SQL
JSON
JavaScript
HTML5

Programming Tools.

Android Studio.

AWS

PHPMYAdmin

Firebase

Learning Challenges

Learning how to implement google maps API into an application.

Dealing with graphical images storing in database, and loading them instantly to the application.

Enabling the link of the user's databases with each other by normalising the databases.

Learning how to use Firebase.

Identifying grammar mistakes and fixing them automatically within the application.

Learning JSON.

Learning Java Script.

Learn how to create a webserver and configure with apache, php and SQL using Amazon Web Services.

Hardware / software platform.

Android Studio.

Eclipse.

AWS.

Below is a very simple prototype of the application Jobder with a lot of features missing, this is just to portray the future design of the application in a simple way.

