



Mobile Application Programming - CS526
Term 1, 2020-2021

Deliverables 2



Group: 1
Report Submitted to:
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Submitted by:

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Declaration statement:

All team members hereby declare that this project work entitled "Conncectly" submitted to Dr. Feras Altarouti, is a record of CS526: Mobile Application Programming course done and programmed by project team members. The work of this project is submitted in the partial fulfillment of bachelor's degree of Computer Science in Imam Abdulrahman bin Faisal University. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any another degree or diploma.

Introduction - Problem statement:

The process of searching for a job is a long and stressful process. It can take months to search for a suitable job. But these days, searching for a job has become a bit easier through job search sites and applications rather than through traditional ads or newspaper follow-up. So, we decided to build an app that would act as a portal between job seekers and recruiters so that it allows users to share their educational details, Search for a job matching their qualifications, and it also allows each user to apply for multiple jobs at a time.

Project Goals and Objectives:

- The aim, or the main purpose of this app to provide a platform for young graduates and fresher to find the right and satisfactory job according to their qualification.
- Jobseekers will have an easy access to the different job opportunities.
- Jobseekers can apply for multiple jobs at a time.
- It helps companies find suitable employees for their job requirements.

Project Scope:

The application has two users:

- Jobseekers: access the system using email and password. They can modify their personal information and upload a CV to be able to apply for jobs.
- Job Provider/Company: access the system using email and password. They can post jobs and view job applications.

Project Success Criteria:

- Both users can successfully log in to the system with their data that is stored on the database.
- The job provider can add job opportunities to the system.
- The job provider can find the requests posted to the job they post.
- The jobseeker can view the jobs and post a request for applying the job.

Limitations/Restrictions:

- The interface is provided in English only
- Login and password are used for identification of the user.
- Only registered users have the rights to access the system.

Project Details:

Common Activities:

- The splash screen appears for 10 seconds when running the application, then it moves to the login activity

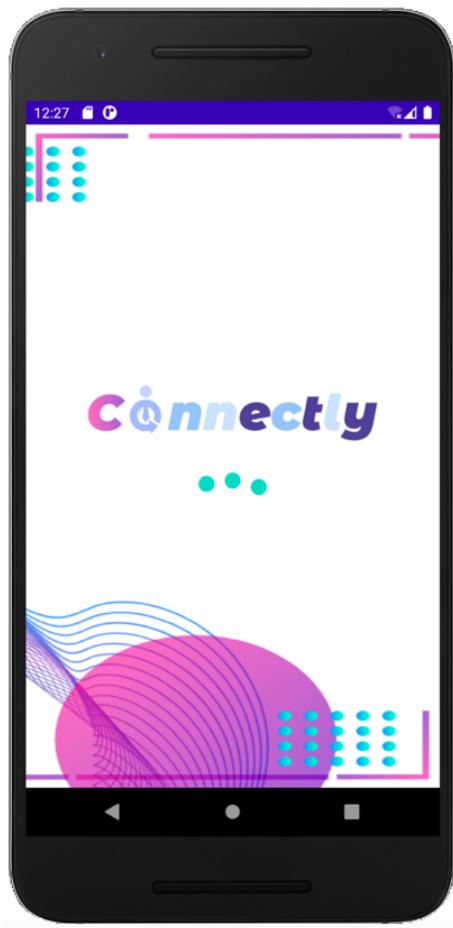


Figure 1 splash screen

Login Activity

- Seeker or provider can login with the Email ID and password. If one of them is wrong, a message "Wrong Username or password" will appear.
- If the registered user is a seeker, he/she will be transferred after verifying the email and password to the seeker home page, otherwise he/she will be transferred to the company home page.

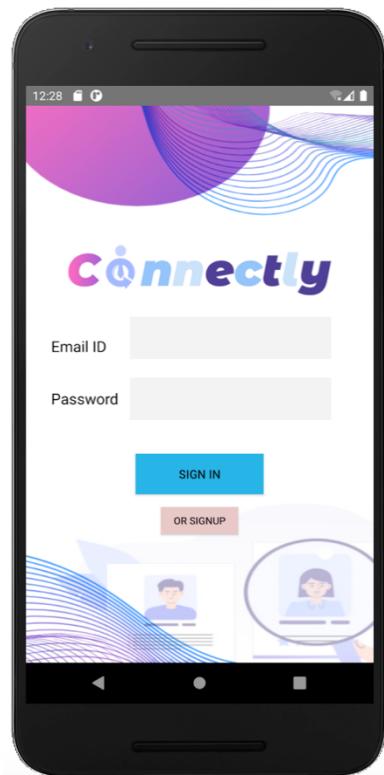


Figure 2 login activity

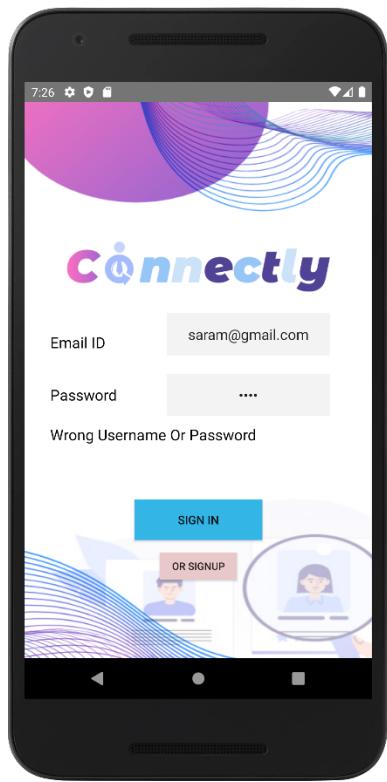


Figure 3 Login activity wrong information case

Signup Activity

- Seeker or provider can sign up with the Email ID and password. If the email id is already existing in the database, a message "The Username/Email already exist" will appear.
- The entry for the password must be identical to the entry for the confirm password, otherwise a message "please enter password correctly in two fields" will appear.
- If the user chose seeker will show a toast message that he/she is signed up successfully as seeker and then open seeker home page, otherwise it will show the provider successfully signed up and then open the job provider(Company) home page.

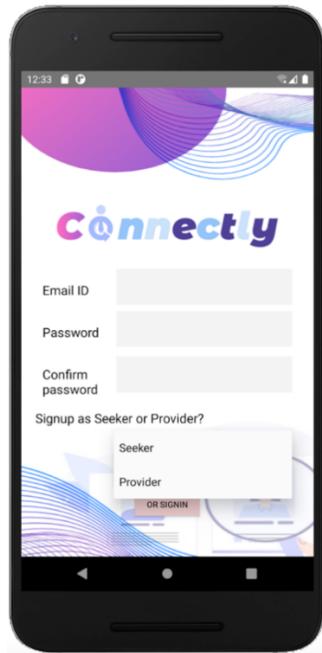


Figure 4 Signup - choosing signup as seeker or provider

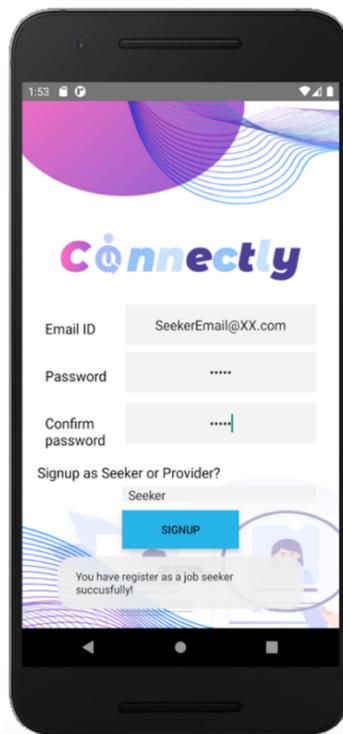


Figure 5 signup - successful seeker signup

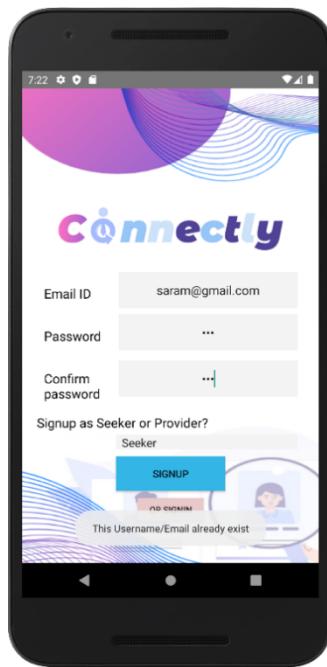


Figure 6 signup - user already exist case

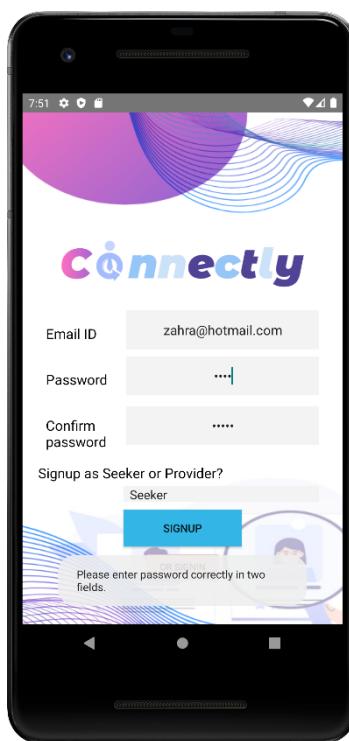
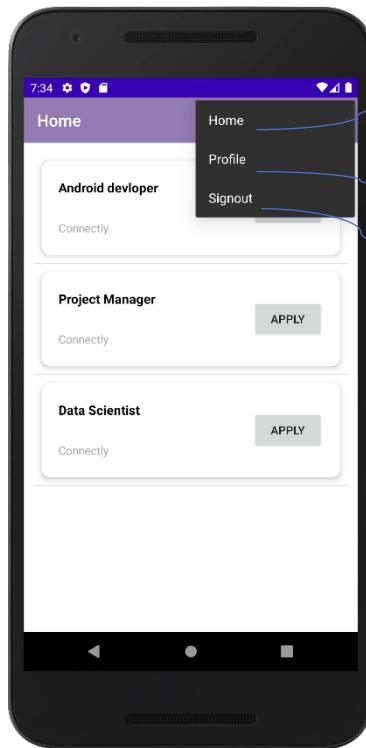


Figure 7 signup - inconsistent password case

Seeker Activities and Fragments:

Menu



Return to seeker home activity

Return to seeker profile activity

Return to login activity

Figure 8 Seeker's menu

Seeker home

- The list of available jobs will appear on the seeker home page. If there are no jobs posted, the message “There are no jobs yet” appears.
- APPLY button takes the user to apply job activity.

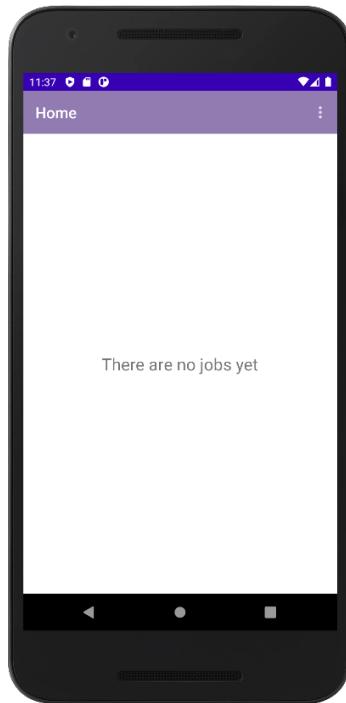


Figure 9 seeker's home - no job yet case

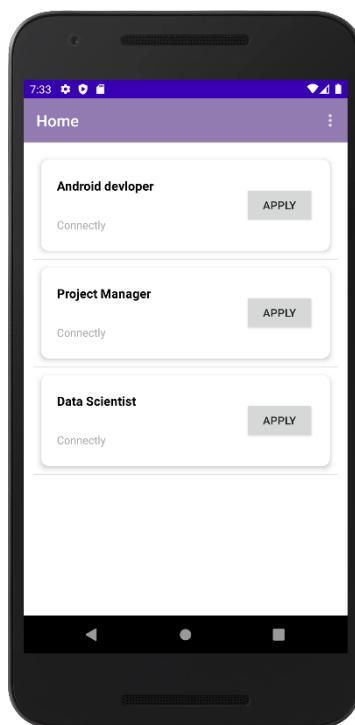


Figure 10 seeker's home - job posted case

Seeker profile activity

The seeker profile activity consists of an app bar, a menu and a tab layout. Our focus here is on the tabs in the tab layout are:

- 1- The Information tab:** This tab is the first tab that appears when the user opens his profile. In this tab the user can only view information but cannot edit them. When the user is a new user, all information text areas are empty, except for the email text area, which is auto filled by the program.

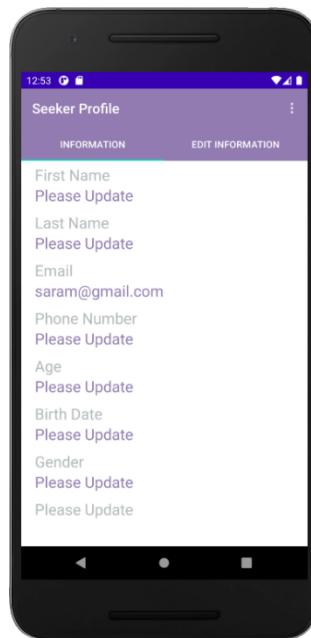


Figure 11 seeker profile - information tab (fragment)

- 2- The Edit Information tab:** Here, the user can edit/provide his information like; first and last name, phone number, age, date of birth, gender, and upload a CV as a pdf file.

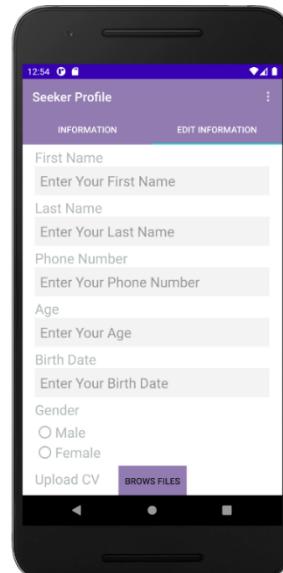


Figure 12 seeker profile - edit information tab (fragment)

- a. When the user clicks on “browse file” button, it will take him to the files browser on his phone, to choose a file and upload it.

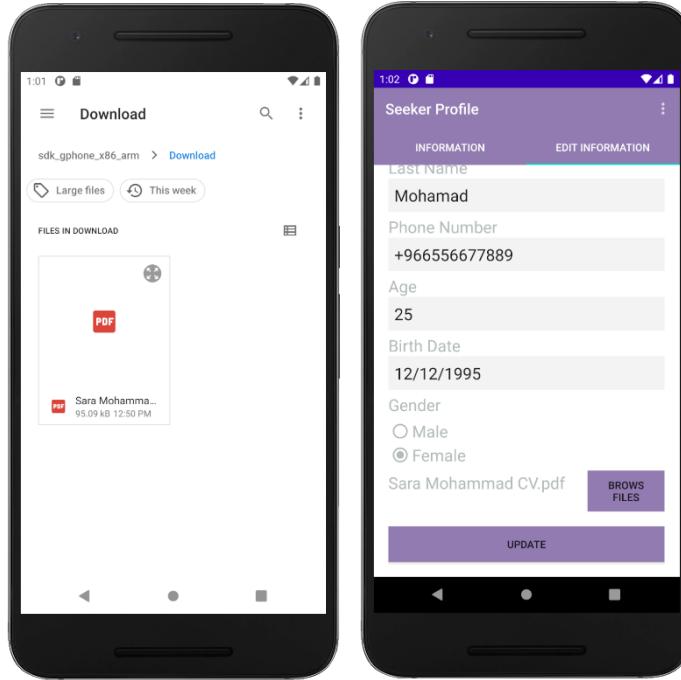


Figure 13 seeker profile - edit information tab (fragment): case of uploading cv

- b. When the user is done with editing, they should click on the “update” button, and the program will take him to the Information tab with newly updated data in it.

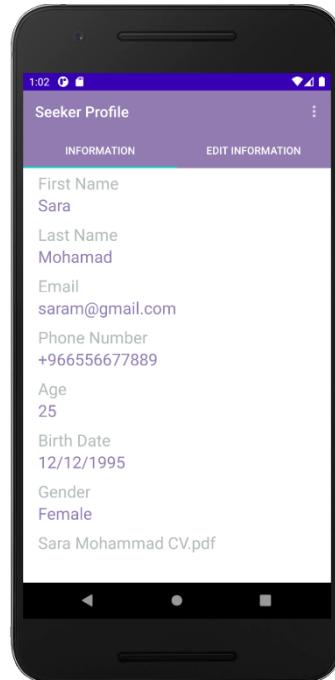


Figure 14 seeker profile - edit information tab (fragment) & information tab (fragment): case of clicking on "Update" button on the edit information fragment

Apply job

- The job information is retrieved from the database for each job.
- The APPLY button sends a broadcast receiver saying “Apply done successfully” and sends the Seeker CV that was uploaded on the database in the Seeker Profile(Edit information fragment) to the Provider account as a request applied to a job, and moves to the seeker home.
- If the seeker clicks on the APPLY button and applied a specific job one time, then he would not be able to apply for the same job again, and a toast message will be shown says “Cannot apply for job again”, then moves to the seeker’s home.

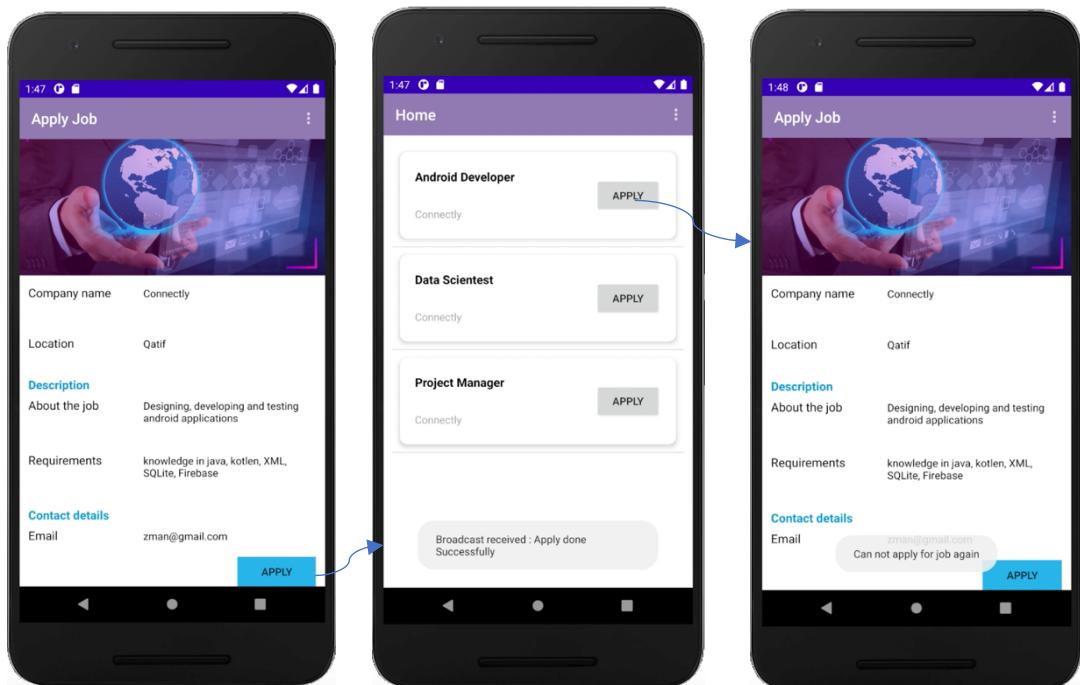
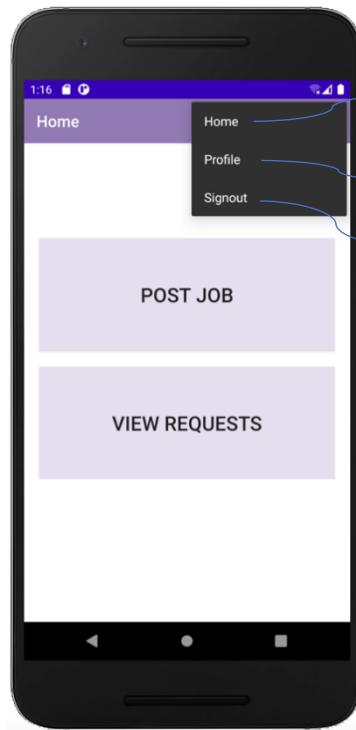


Figure 15 Apply job - successful case , cannot apply for job again case

Provider Activities and Fragments:

Menu



Return to provider home activity

Return to provider(company) profile

Return to login activity

Figure 16 provider menu

Provider home activity

- In case if the user clicks on the “POST JOB” button, the user will navigate to the POST JOB Activity.
- In case if the user clicks on the “VIEW REQUESTS” button, the user will navigate to the VIEW REQUESTS Activity.



Figure 17 Provider Home

Provider (Company) profile activity: information fragment

The provider profile activity consists of an app bar, a menu and finally a tab layout. The tabs in the tab layout are:

- 1- Information tab:** This tab is the first tab that appears when the provider opens his profile. In this tab the user can only view information but cannot edit them. When the user is a new user, all information text areas are empty, except for the email text area, which is auto filled by the program.

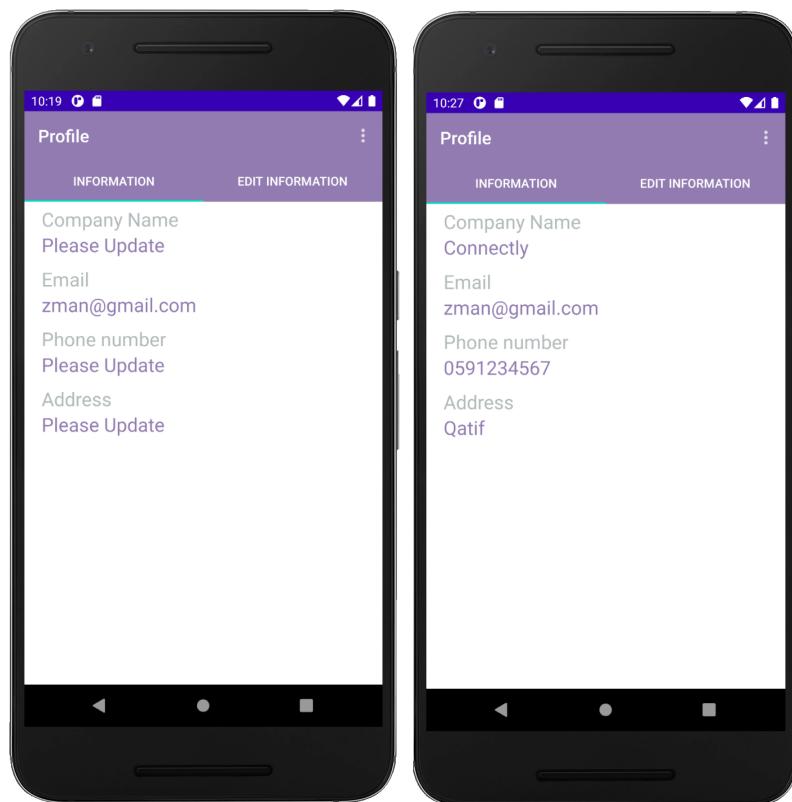


Figure 18 Provider Profile – information tab (fragment): case of before updating & case of after updating

Provider (Company) profile activity:
edit information fragment

- 2- Edit Information tab:** Here, the provider can edit/provide his information like company name, phone number, and address.

When the provider is done with editing, he should click on the “update” button, and the program will take him to the Information tab with newly updated data in it.

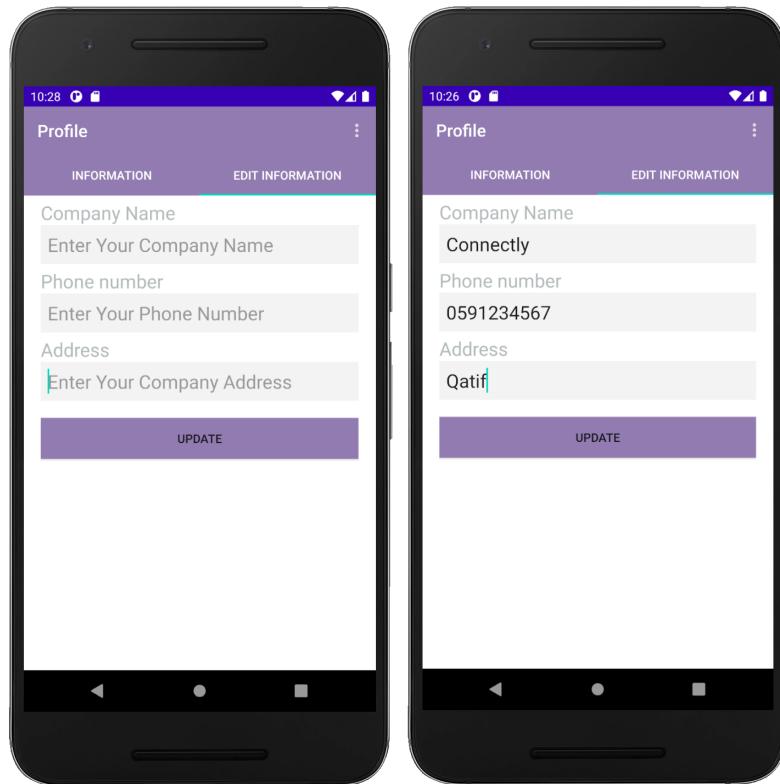


Figure 19 Provider Profile – edit information tab (fragment)

Post job activity:

The company name is filled automatically, but all the other information such as the job title, job description, requirements and job location are required to be filled by the provider.

The provider has three options:

- 1- Add the job with its information by clicking on “POST JOB” button, then the home page with “Broadcast received: New Job Posted” message will be displayed.
- 2- Erase the data that was written by the provider by clicking on “CLEAR DATA”, and the post job page will stay visible and editable to the provider.
- 3- Cancel posting the job by clicking on “CANCEL” button, and the home page will be displayed.

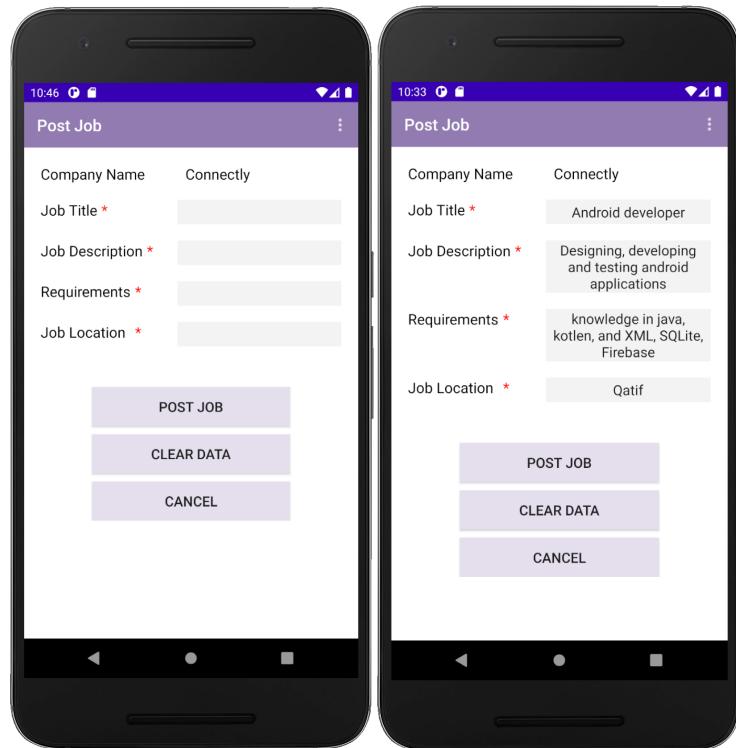


Figure 20 Post Job Activity – filling the job's information

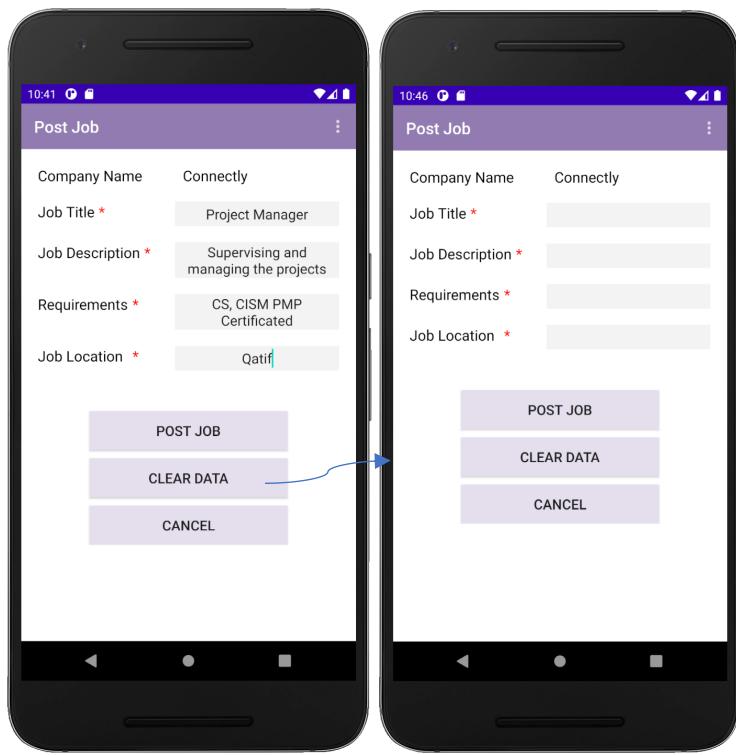


Figure 21 Post Job Activity - Case of clear data

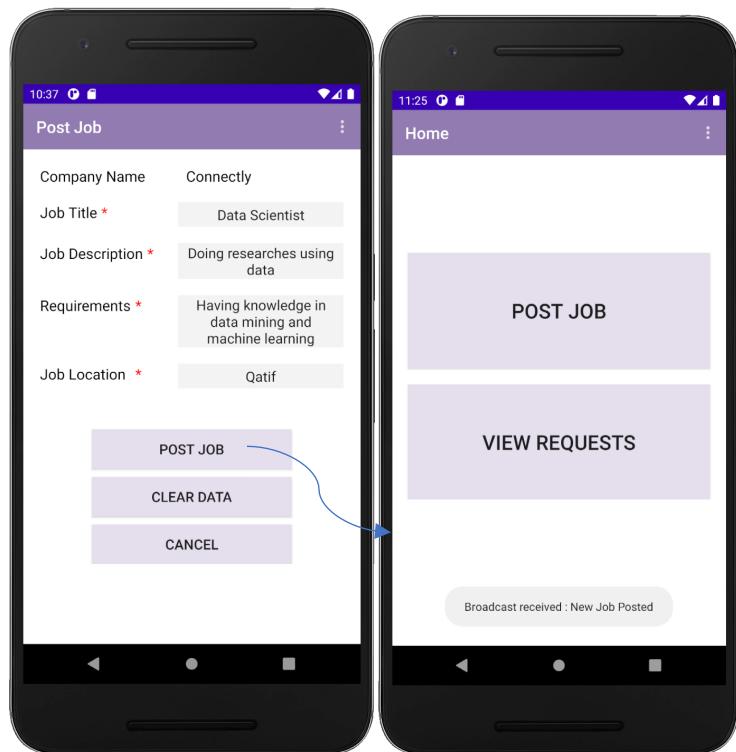


Figure 22 Post Job activity - case of clicking on Post Job Button

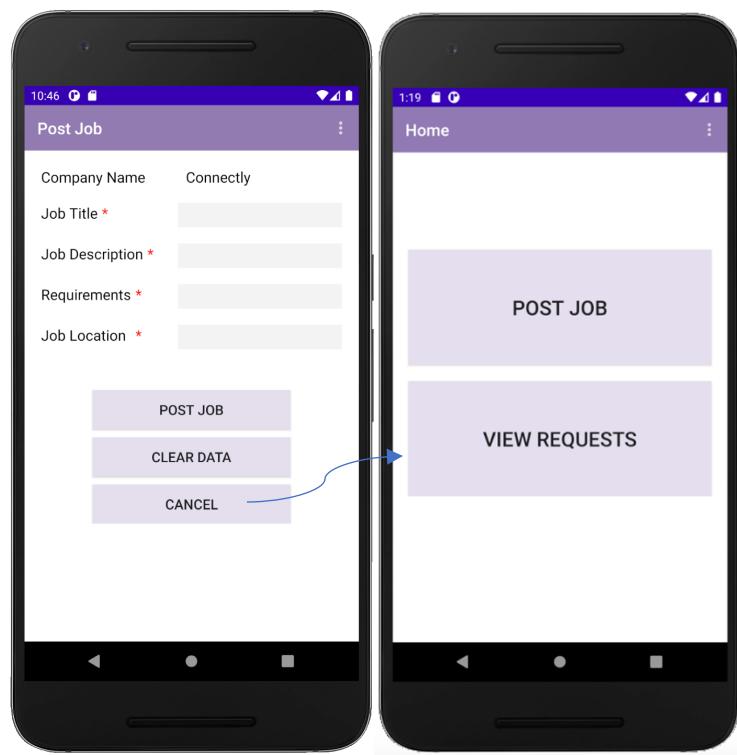


Figure 23 Post Job activity - case of clicking on the CANCEL button

View requests activity:

- View requests activity will show to the provider all the requests that seekers had made. Each request contains the seeker name and the job title he\she request for. When there are no requests yet, the view request activity will be empty with a sentence that "There are no requests".
- The "VIEW" button in each request will redirect the provider to the seeker's CV in the request activity.

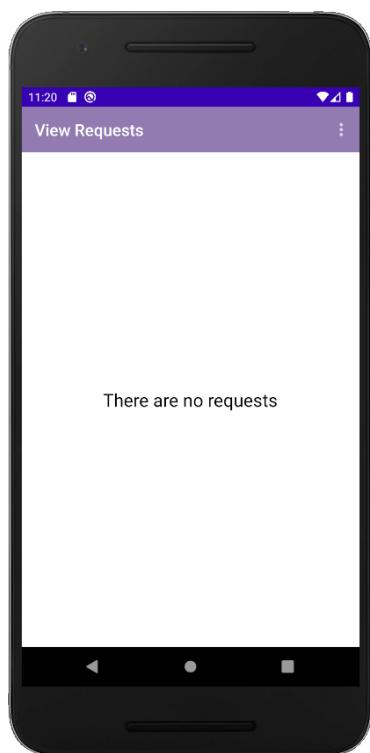


Figure 24 View Requests activity - case of no requests posted yet

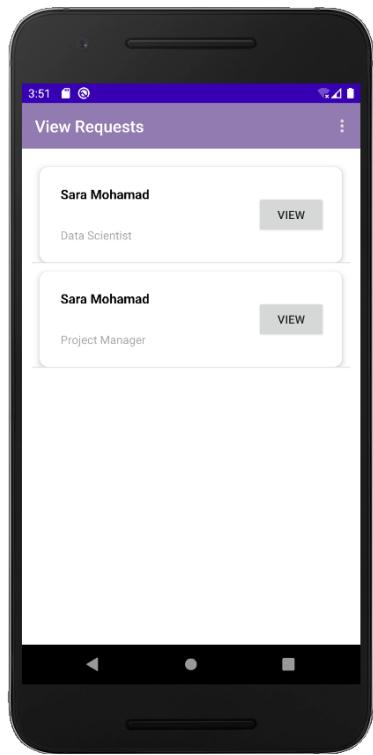


Figure 25 View Requests activity - case if requests posted

Request activity:

Request activity shows the seeker's CV for the provider in the request that the seeker is looking for.

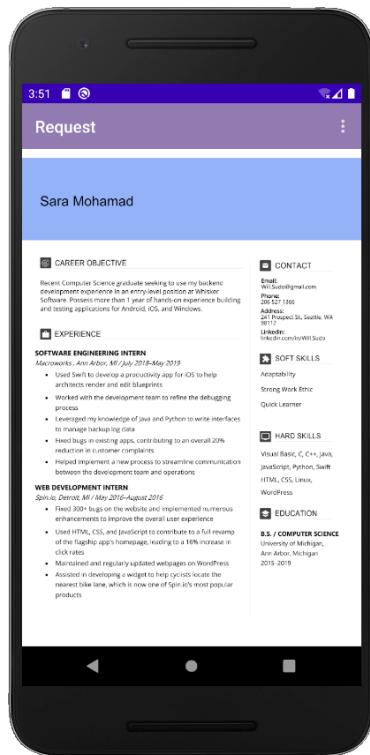


Figure 26 Request Activity

Content Provider:

Note: the Content provider have been applied here in the seekerContactsProvider.java class for our application on the seekers table, so we can send all seekers data except CV to another application (Content Resolver application), but we have not made a content resolver application.

Data base ER:

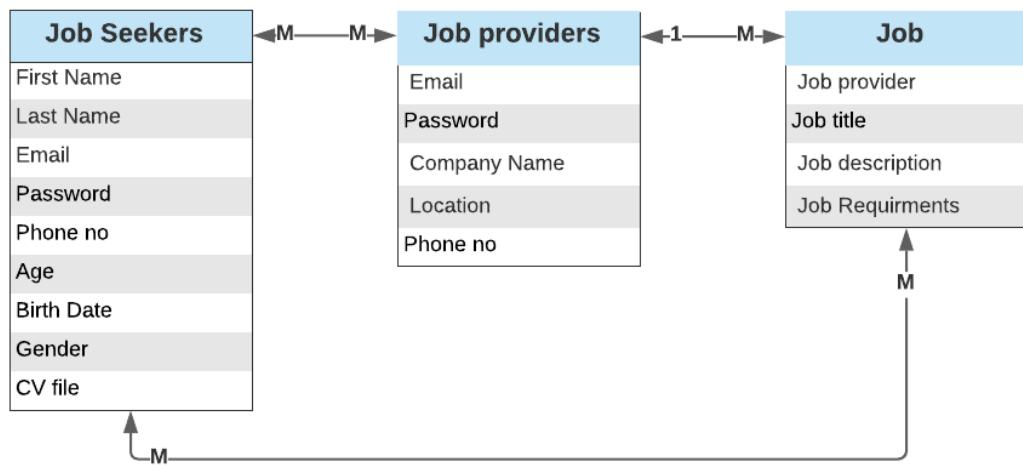


Figure 27 Connectly database ER Diagram

Project Success Factors and Criteria:

The purpose of this application is to build a portal application between job seekers and recruiters to help job seekers find job opportunities, that suites their qualifications and help companies find employees who fit job requirements they are looking for. The list below shows the criteria that made this application successful:

- depending on your purpose, you can sign up to this application as a job seeker or job provider by providing us the email id, password, confirmation of the password, specifying which type of user is signing up a seeker or provider.
- A new user cannot signup with an existing username/email as a clarify message will appear.
- Each type of user can sign in, to their account and based on their email id they will be directed to different interfaces.
- Each type of user can view and edit their information.
- Job seeker can upload his/her CV when the user gives the application the permission to access the photos, media, and files on their device. After the user uploads the CV, it will be stored in their profile if he/she finds a suitable job opportunity it will send the seeker's information and the CV once the seeker clicks on the “Apply” button on the job opportunity he/she liked.
- A list of different job opportunities will appear to the seeker and can view the details of each job opportunity by clicking on the “Apply” button, it will show all needed information such as the company’s name, location, job description, requirements, and the contact details.
- The seeker can apply to different job opportunities at a time.
- The seeker cannot apply multiple times on the same job opportunity.
- The job provider cannot post a job without filling all required fields.
- The job provider cannot post the same opportunity multiple times.
- The job provider can post different job opportunities their company provides at a time.
- The job provider will have a list that shows all the job requests and can view each applicant CV for each job opportunity through clicking on the “View” button.
- In case there wasn’t any applicant for the jobs the provider posted, a clarify message will appear saying “There are no requests”.
- In case there wasn’t any job opportunities for the seeker, a clarify message will appear saying “There are no jobs yet”.
- All interfaces where designed in a user-friendly manner.