

I. Introduction

This application delivers knowledge and expertise exchange between people where no real currency is involved, every member can provide service to other member to gain points in the app, and those points in turn can be used to get services from other members. Once the service is rendered, the hirer has the option of rating the employee depending upon the performance of the employee, which is one of the factors used in calculating points rate. As future developers, we wanted to develop this application which will be useful to many of the developers like us, who wanted to showcase their skills to promote themselves and be successful in their future endeavors. So, we are restricting the field of work to IT Industry.

II. Project Goal and Objectives

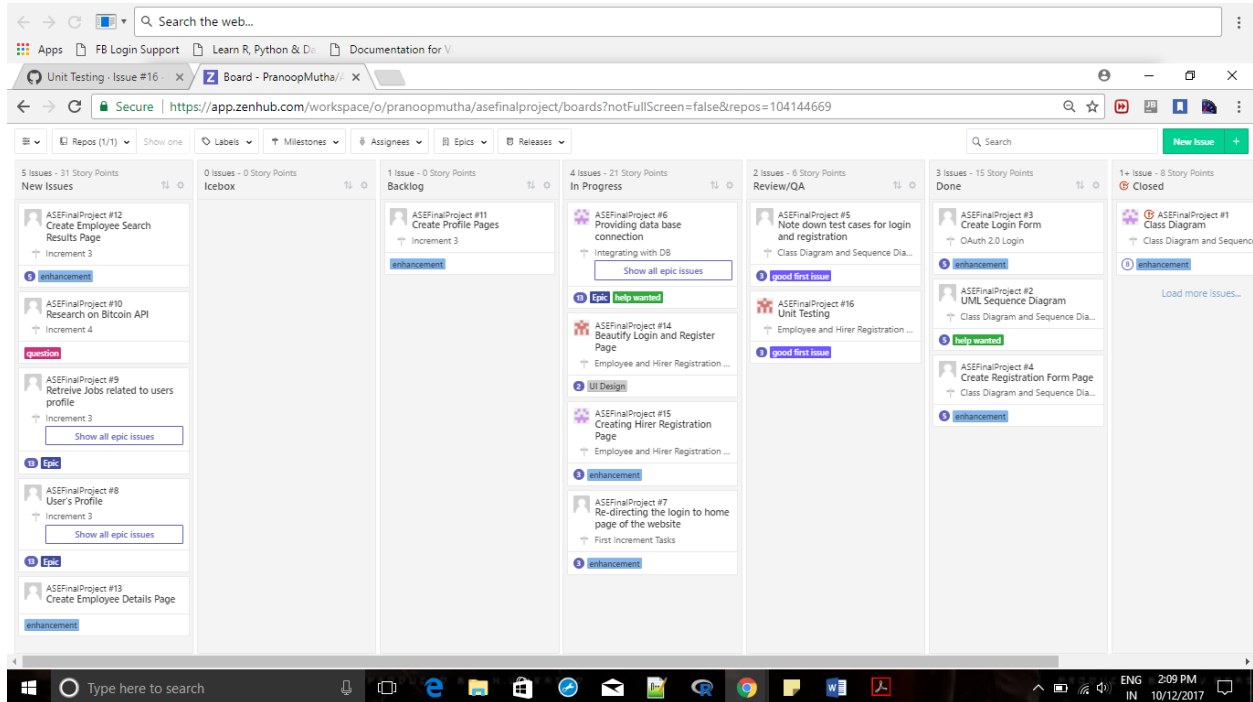
- **Overall Goal:** To create a global crowd sourcing marketplace website which allows the potential employers to post jobs that someone can bid to compete for it and complete it more effectively and economically.
- **Specific Objectives:** Many people with valuable experience and multiple talents are either not working, or doing something that is not related to their knowledge and talent; so, it is necessary to have a system that utilizes every talent and/or knowledge that a person might have.
- **Specific Features:**
 1. User Registration
 2. User Login
 3. Provides option to Select Location
 4. **Google Maps API:** We are integrating our application with Maps to search a hiring employee nearby, if needed to meet personally to discuss the ideas.
 5. **Select Employee**
 - Developer
 - Manual Tester
 - Automation Tester
 - Team Lead

- Support Person
- 6. Cost Estimation
- 7. Provide Feedback and rating too.
- 8. Employee Registration
- 9. Updating Profile
- 10. Sending Email for Forgot Password
 - a. **Push Notification API**
- 11. User Logout
- 12. **Bitcoin Developer API:** This API uses the block chain wallet method which is an easy method for websites to receive the bitcoin payments.
- **Significance:**
 - Helps to develop individual profiles as they complete more work.
 - Get to know more people working in different areas of interest.
 - The employers and employees can find each other.
 - Post work for site members bidding on in a competitive tender process.
 - Awarding points for the work done and in turn the points can be encashed.
 - We can also receive reviews and suggestions from the other peers and vice-versa.
 - Initial registration fee and some free points awarded as a joining bonus.

III. Project Plan (using Zen Hub Tool)

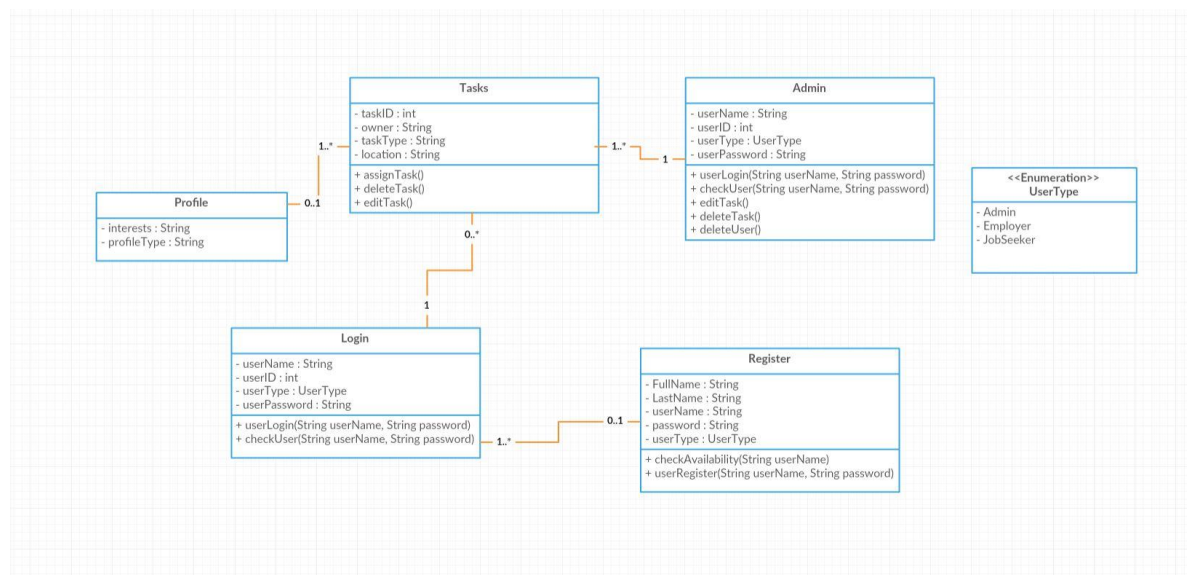
1) Schedule for four different increments

- **Stories (Issues): Scenario and Use case specification**



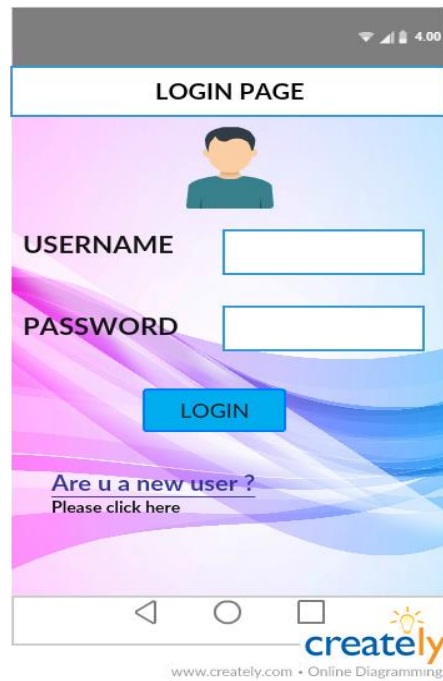
- **Service Design (detailed service design, unit test design)**

Below attached is the class diagram




Wire Frames:

Login Page:



4.00

LOGIN PAGE



USERNAME

PASSWORD

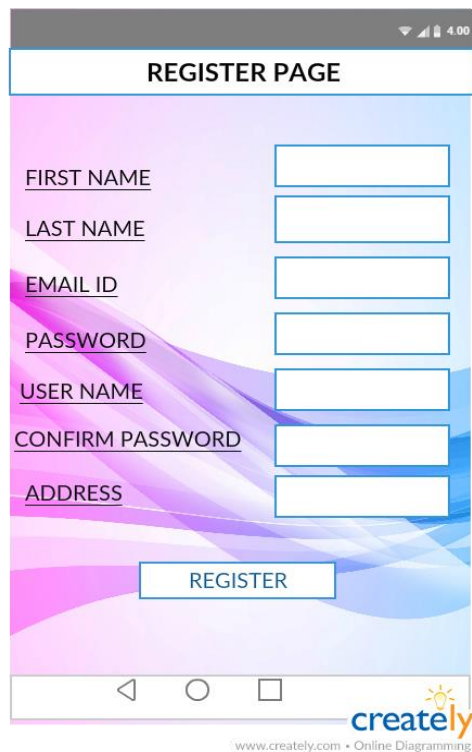
LOGIN

Are u a new user ?
Please click here

creately
www.creately.com • Online Diagramming

This wireframe for a login page is displayed on a mobile device screen. At the top, a status bar shows the time as 4.00. Below it, a white header bar contains the text 'LOGIN PAGE'. The main area has a pink and blue wavy background. It features a user icon, followed by input fields for 'USERNAME' and 'PASSWORD'. A blue 'LOGIN' button is positioned below the password field. A link for new users is at the bottom of the form area. The footer includes the 'creately' logo and website information.

Hirer Registration Page:



4.00

REGISTER PAGE

FIRST NAME

LAST NAME

EMAIL ID

PASSWORD

USER NAME

CONFIRM PASSWORD

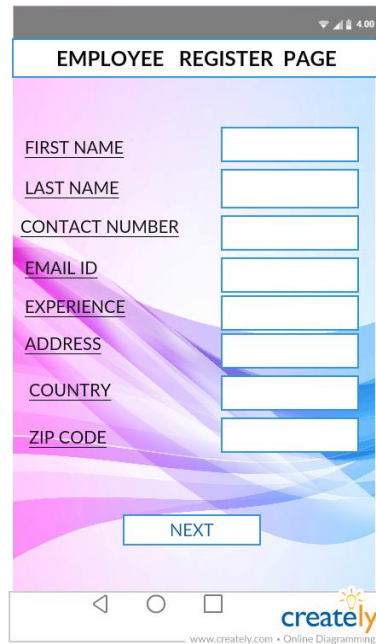
ADDRESS

REGISTER

creately
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This wireframe for a hirer registration page is shown on a mobile device. The status bar at the top indicates the time 4.00. A white header bar is labeled 'REGISTER PAGE'. The background is pink and blue with wavy patterns. The form consists of seven input fields: 'FIRST NAME', 'LAST NAME', 'EMAIL ID', 'PASSWORD', 'USER NAME', 'CONFIRM PASSWORD', and 'ADDRESS'. A white 'REGISTER' button is located at the bottom of the form. The footer features the 'creately' logo and website details.

3. Employee Registration Page:



EMPLOYEE REGISTER PAGE

FIRST NAME

LAST NAME

CONTACT NUMBER

EMAIL ID

EXPERIENCE

ADDRESS

COUNTRY

ZIP CODE

NEXT

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This screenshot shows the 'EMPLOYEE REGISTER PAGE' of a mobile application. The page features a series of text input fields for personal and professional information: FIRST NAME, LAST NAME, CONTACT NUMBER, EMAIL ID, EXPERIENCE, ADDRESS, COUNTRY, and ZIP CODE. A 'NEXT' button is positioned at the bottom of the form. The background has a light blue and purple wavy pattern. The bottom of the screen displays the 'createely' logo and the website 'www.createely.com • Online Diagramming'.

4. Employee Registration (Experience):



REGISTRATION PAGE - EXPERIENCE

EXPERIENCE

EXPERTISE

MINIMUM CHARGES

BACK SUBMIT

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This screenshot shows the 'REGISTRATION PAGE - EXPERIENCE' of the same mobile application. It contains three text input fields: EXPERIENCE, EXPERTISE, and MINIMUM CHARGES. At the bottom, there are two buttons: 'BACK' and 'SUBMIT'. The background is consistent with the previous page. The bottom of the screen displays the 'createely' logo and the website 'www.createely.com • Online Diagramming'.

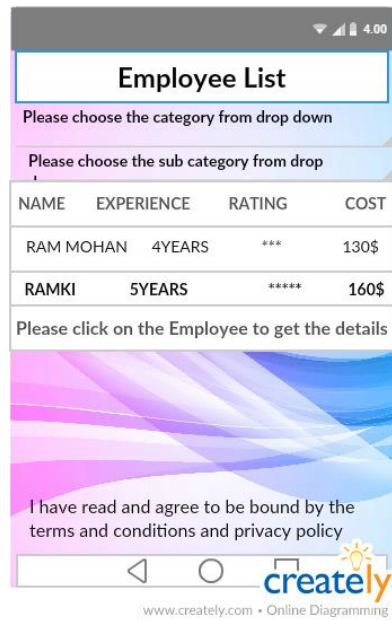
5. Main Page:



6. Sub Category Page:



7. Employee Results List Page:



The screenshot shows a mobile application interface for an 'Employee List'. At the top, there's a title bar with the text 'Employee List'. Below it, there are two dropdown menus: 'Please choose the category from drop down' and 'Please choose the sub category from drop'. A table with four columns (NAME, EXPERIENCE, RATING, COST) displays two employees: RAM MOHAN (4YEARS, ***, 130\$) and RAMKI (5YEARS, *****, 160\$). Below the table, there's a text prompt 'Please click on the Employee to get the details'. At the bottom, there's a checkbox labeled 'I have read and agree to be bound by the terms and conditions and privacy policy'. The footer includes the 'creately' logo and the text 'www.creately.com • Online Diagramming'.

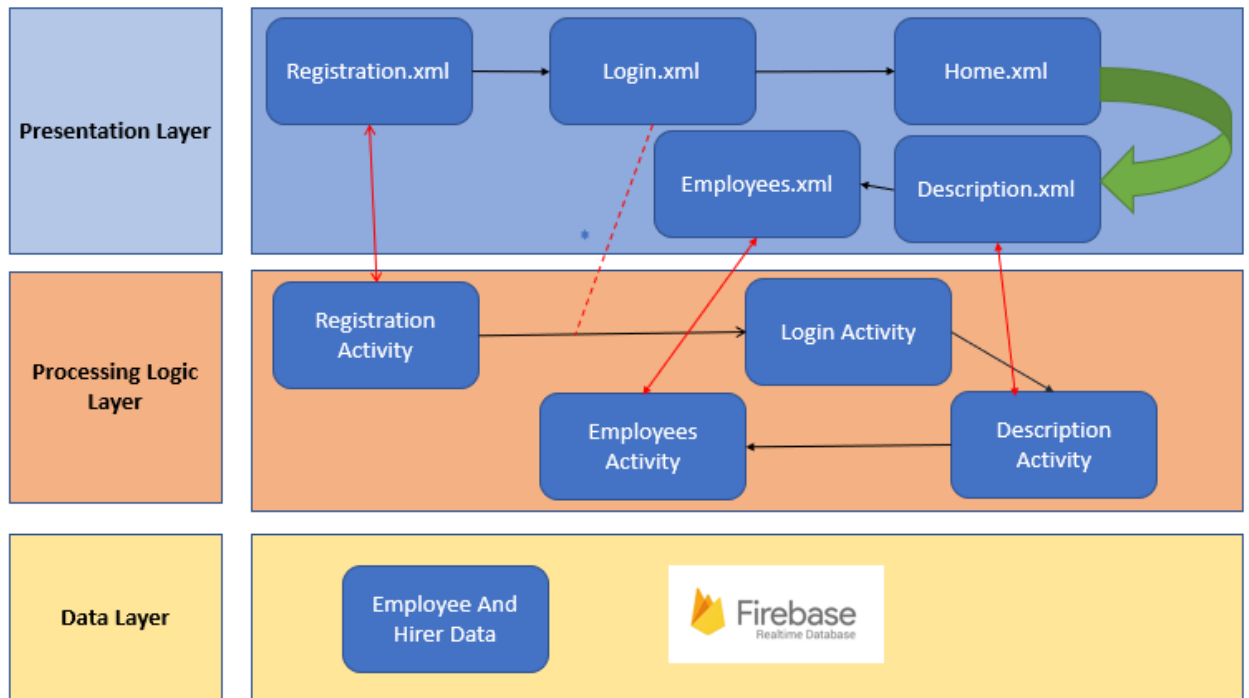
NAME	EXPERIENCE	RATING	COST
RAM MOHAN	4YEARS	***	130\$
RAMKI	5YEARS	*****	160\$

8. Employee Details Page:

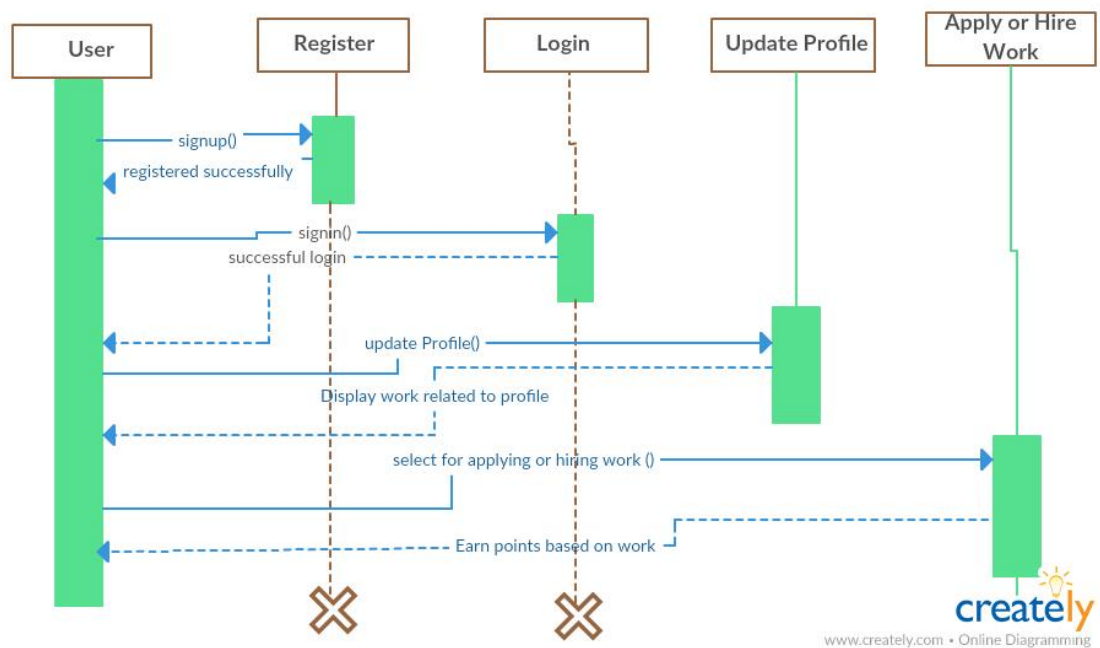


The screenshot shows a mobile application interface for an 'Employee details' page. The title bar at the top says 'Employee details'. Below it, there are several labels for form fields: 'Name:', 'Experience:', 'Category:', 'Contact Number:', 'Email id:', and 'Cost:'. The footer includes the 'creately' logo and the text 'www.creately.com • Online Diagramming'.

- Architecture Diagram



- Sequence Diagram



- **Use Cases:**

1. **Employee Profile Registration:** This will check whether the employee has given the complete details for account registration.
2. **Employee Experience and Skills Registration:** This will check whether the Employee is able to give the full details for registering the account.
3. **Home Page:** This will check whether the hirer is able to search for the required employee or not.
4. **Technology Selection Page:** This will check whether the employee is available for a role is well – known with the technology or not.

- **Service Implementation (Implementation and Testing)**

Test Case Name	Test Case Description	Expected	Pass/Fail	Pass/Fail
Navigation	Enter valid userID and Password	Redirect to Home Page	Pass	Pass
	Enter valid userID and Password	Display Job Category List	Pass	Pass
	Display Job Category List	Display Drop down to Select Sub Category	Pass	Pass
	Select Sub Category	Display Employee List based on Sub Category	Fail	Yet to do
	Select ForgotPassword Link	Redirect to Forgot Password Page	Pass	Pass
Update Profile	Select Send SMS Link	Receive message to mail	Fail	Yet to do
	Click on Edit Profile	Direct to Edit Profile Page	Pass	Pass
	Click on Change Password	Direct to Change Password Page	Pass	Pass
	Click on Update Profile Button	Profile Updated	Pass	Pass
	Try Login with new Password	Logged In	Pass	Pass

2) Project Timelines, Members, Task Responsibility

- **Project Timelines:**

Increment 1:

Task1: Design a login page and sign in using Google Login.

Task2: Design a login page and sign in using Facebook Login.

Task3: Design a register page and sign up for the application.

Task4 (Common Task): Research on Push Notification and setting up the environment for the application.

Increment 2:

Task1: Create Hirer Registration Page and Change Password Page.
(Vinay Jaibheem)

Task2: Create Profile Page for Employee and Update Profile.
(Pranoop Mutha)

Task3: Create Category and Sub Category pages. (Lakshmi Mrudula)

Task4: Create Forgot Password and research on Push Notification for sending SMS to mail. (Dinesh)

Task5 (Common Task): Research on integrating Firebase with Android Studio to retrieve and save the employee and hirer records.

Increment 3:

Task1: Retrieving jobs related to the user profile.

Task2: Integrating Google Maps API for searching users nearby.

Task3: Developing Users Profile.

Task4: Connecting with the External DB

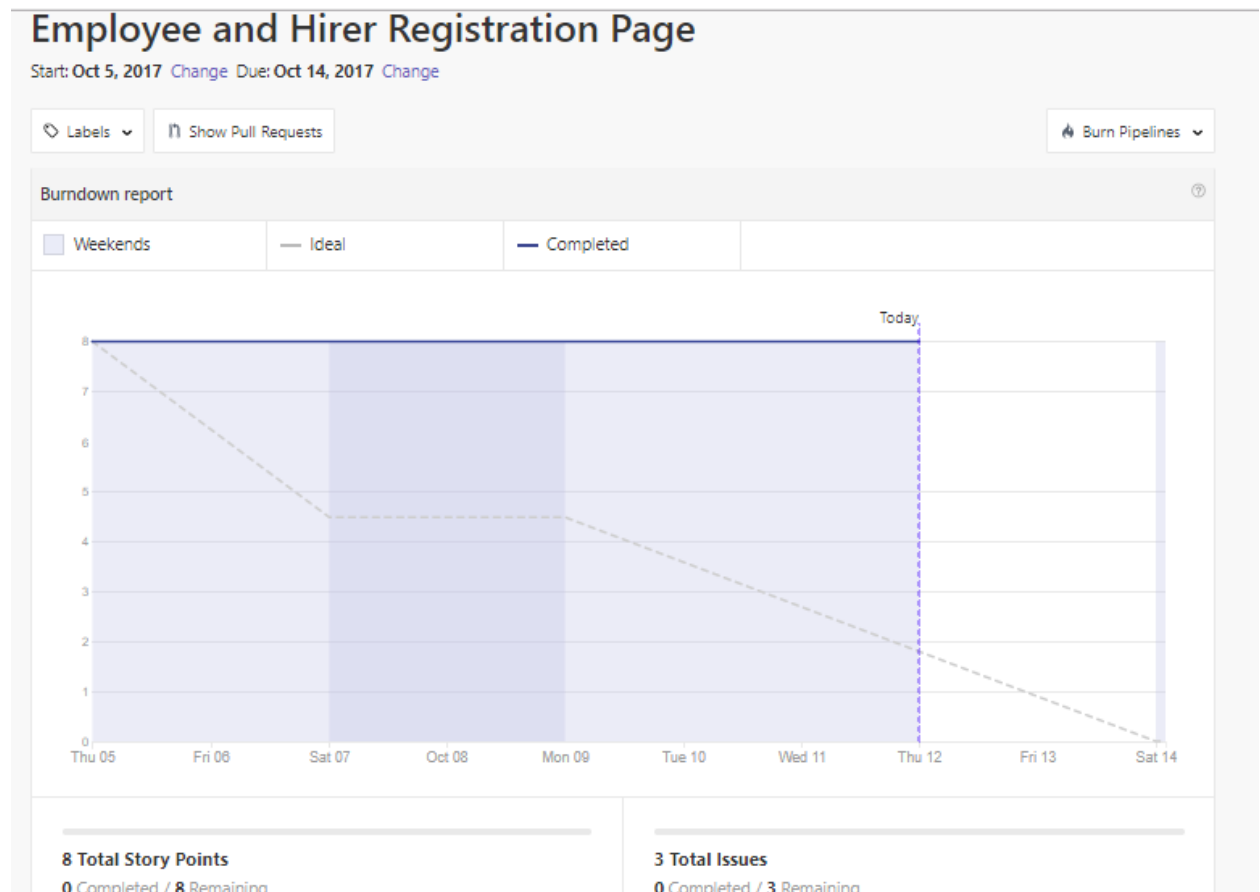
Task5 (Common Task): Research on Bitcoin API.

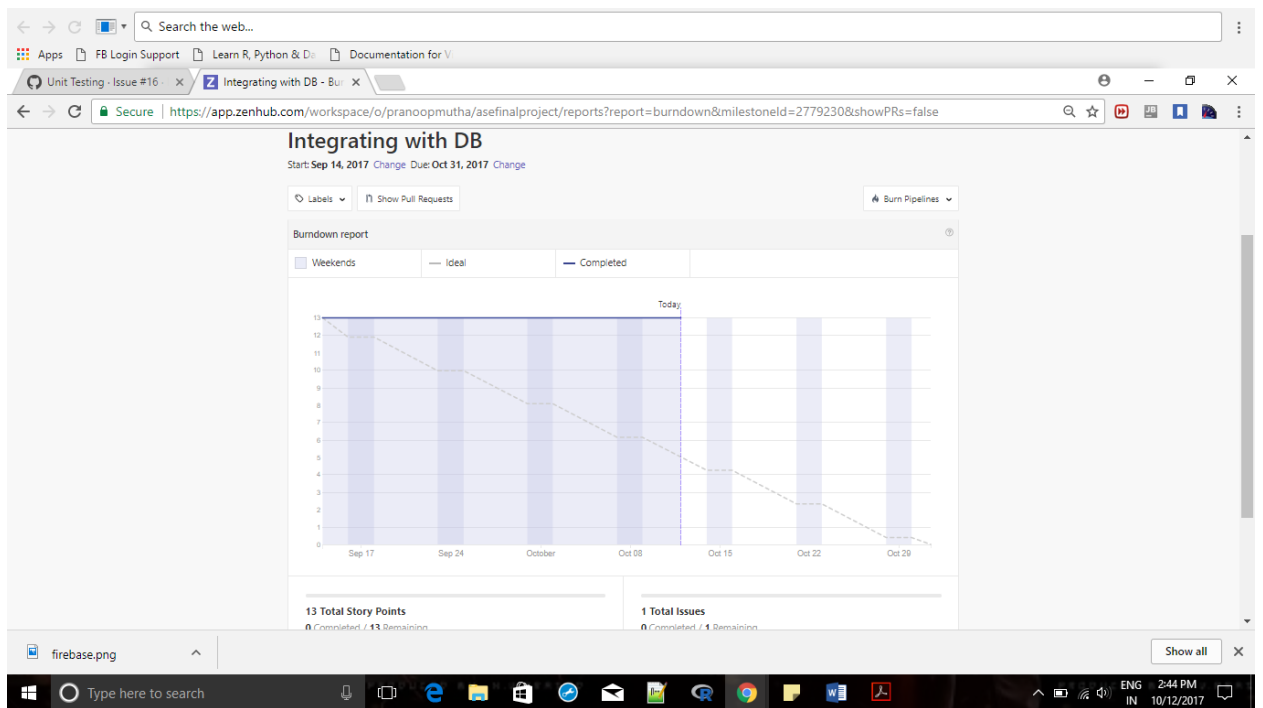
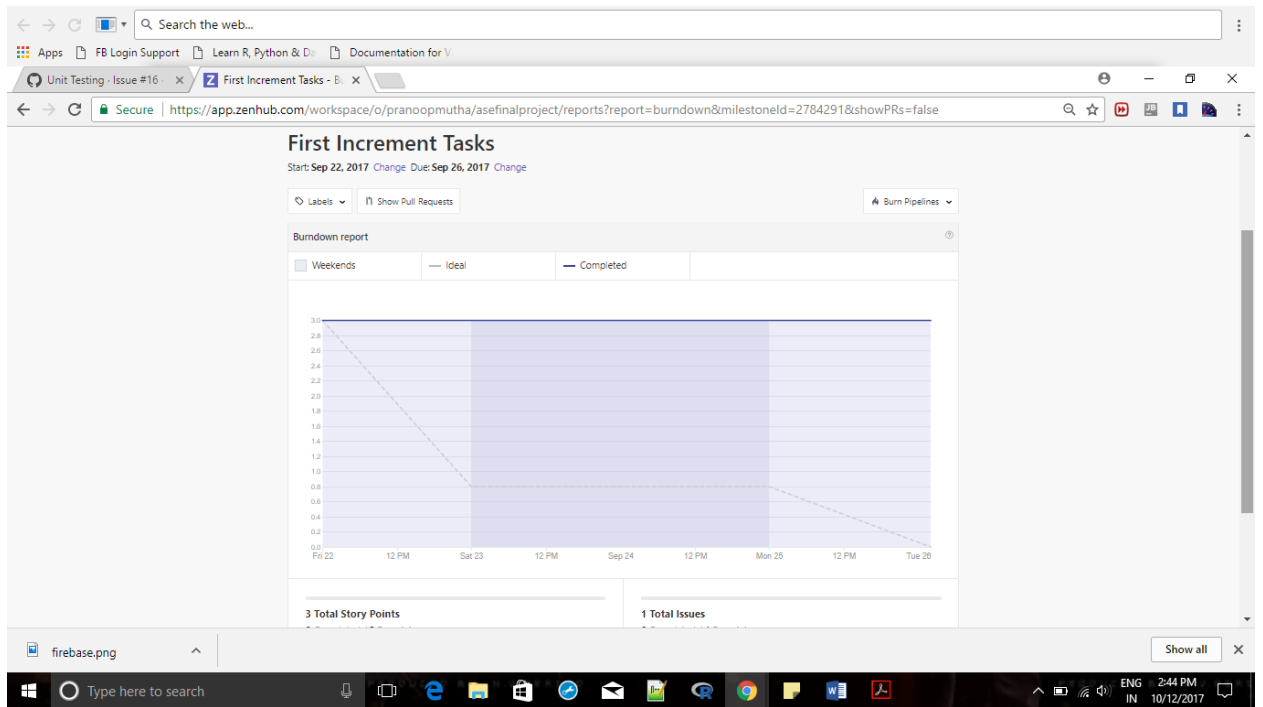
Increment4:

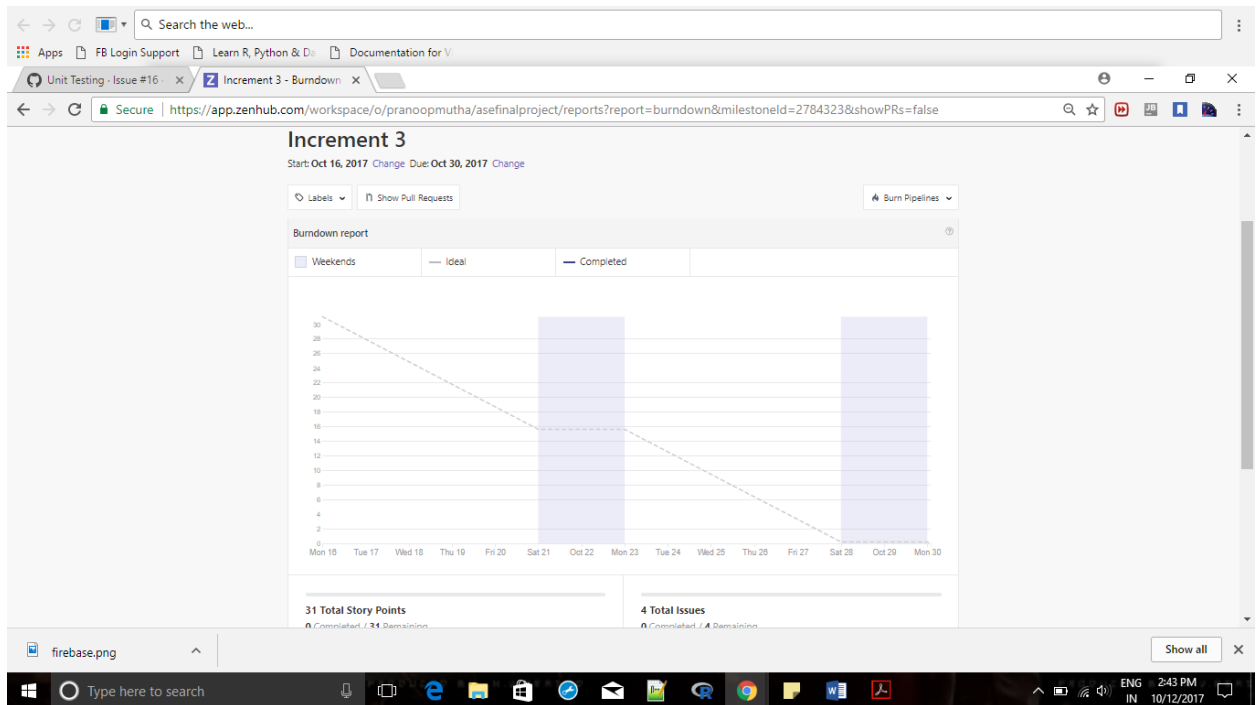
Task1: Integrating Bitcoin API

Task2: Integrating whole application and redirecting pages.

3) Burndown Chart







IV. Second Increment Report

- **Existing Services/ REST API**

As of now, we are not using any REST API, we are still in the research process of connecting to external DB and we will be mostly using SQL DB to fetch the data from the external resource.

- **Detail Design of Features**

The key features of the project are divided into tasks for each of the team member for each increment.

Starting with the **first couple of increments**, we will be working on Login, Register and User Profile Pages and redirecting the login page to the home page using login. The User profile pages will be including all the background information of the user such as the educational background, personal details, work experience etc. In the above tasks, the login page

was taken care by Vinay Jaibheem, the login with Facebook will be taken care of Lakshmi, Registration Page will be taken care of Dinesh and the profile pages will be taken care of Pranoop. The profile page also includes the integration of DB with it. In addition, the whole team will be researching on both how to integrate with DB and on the PUSH Notification and setting up the environment for application.

Moving to the **third increment**, retrieving jobs related to the user profile will be done by Pranoop. Once the user updates his skills in the profile, the jobs matching to it will be displayed. In detail, the skills will be taken as a filter for retrieving jobs that are best suited for the user. Next, Integrating Google Maps API will be taken care of Vinay Jaibheem, which helps the employer to meet the employee sometimes if in case there is a need to meet in person or he wants someone to work within their office premises. Developing users profile will be taken care of Lakshmi, which will be including features like notifications or projects list done by the user etc. and finally, connecting with external DB will be taken care of Dinesh. The whole team will be working on the research of the Bitcoin API. This is the API which is used for payment transfer in our application, which is a type of crypto currency.

Finally moving to the **fourth increment**, Pranoop and Vinay will be working on the Bitcoin API for payments mainly and the whole team will be working on the integrating and documentation, and the presentation part of the application.

Below attached is the sample sequence diagram for the application

- **Testing**

At each phase of the application, the testing goes on and the whole team will be part of this throughout the process of the application.

- **Implementation**

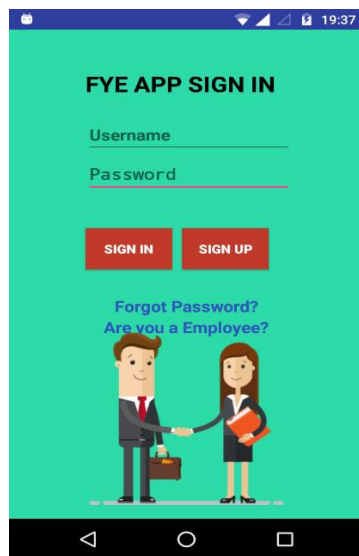
As of now, we are trying to implement the project in both web as well as mobile app, but according to the time and constraints of the team members, we may limit to web application only. We will be using HTML5, CSS3, Angular JS, JSON, SQL DB as the primary technologies and other couple of technologies or tools, if needed.

- **Deployment**

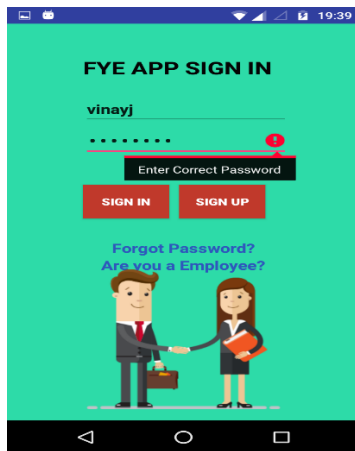
The whole project will be deployed to the GitHub for each increment for sure and whenever we are completed with the tasks within the increment. PFB the GitHub link and WIKI for our final project:

Deployment to Mobile:

1. **Hirer Sign In:**



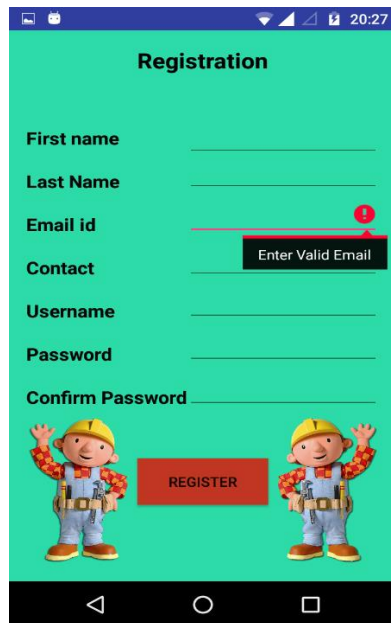
2. Hirer Sign In Validation:



3. Hirer Register Page:



4. Registration Page Validations



The screenshot shows a mobile application interface for a registration page. The title "Registration" is at the top. Below it are input fields for "First name", "Last Name", "Email id", "Contact", "Username", "Password", and "Confirm Password". The "Email id" field is highlighted with a red border and a red exclamation mark icon, indicating a validation error. A black tooltip with the text "Enter Valid Email" is displayed over the "Email id" field. At the bottom, there are two cartoon characters of a construction worker and a red "REGISTER" button.

Registration

First name _____

Last Name _____

Email id _____

Contact _____

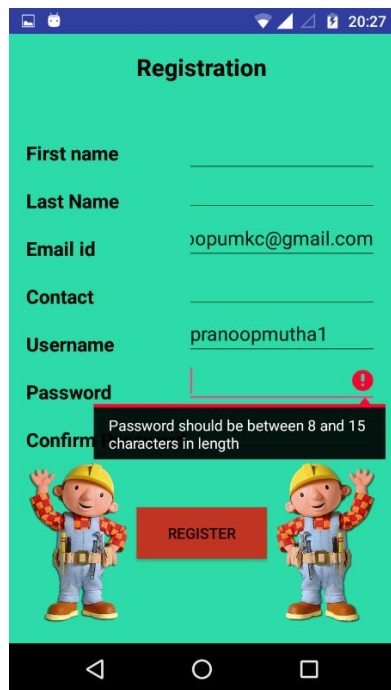
Username _____

Password _____

Confirm Password _____

Enter Valid Email

REGISTER



The screenshot shows the same registration page as the previous one, but with different data entered. The "Email id" field now contains "opumkc@gmail.com" and the "Username" field contains "pranoopmutha1". The "Password" field is highlighted with a red border and a red exclamation mark icon, indicating a validation error. A black tooltip with the text "Password should be between 8 and 15 characters in length" is displayed over the "Password" field. The "Confirm Password" field is empty. At the bottom, there are two cartoon characters of a construction worker and a red "REGISTER" button.

Registration

First name _____

Last Name _____

Email id opumkc@gmail.com

Contact _____

Username pranoopmutha1

Password _____

Confirm _____

Password should be between 8 and 15 characters in length

REGISTER

Registration

First name _____


Last Name _____


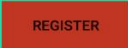

Email id opumkc@gmail.com

Contact _____

Username pranoopmutha1

Password

Confirm Password 



  

Employee Sign In:


Employee Sign In


Username _____

Password _____

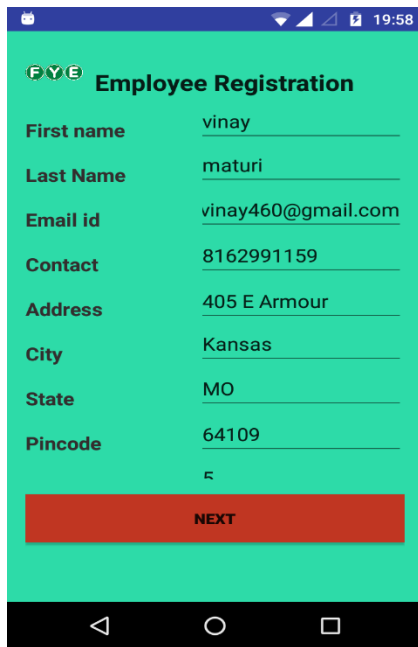
 

Forgot Password?





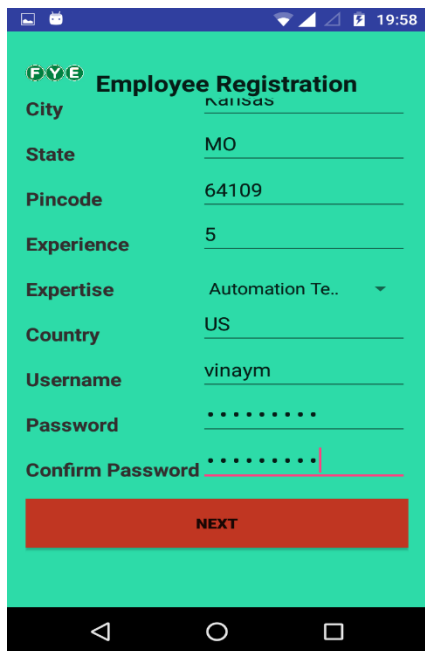
Employee Registration:



A screenshot of an Android application titled "Employee Registration" with the "FYE" logo. The form contains the following fields and values:

Field	Value
First name	vinay
Last Name	maturi
Email id	vinay460@gmail.com
Contact	8162991159
Address	405 E Armour
City	Kansas
State	MO
Pincode	64109

Below the fields is a red button labeled "NEXT". The Android navigation bar is visible at the bottom.

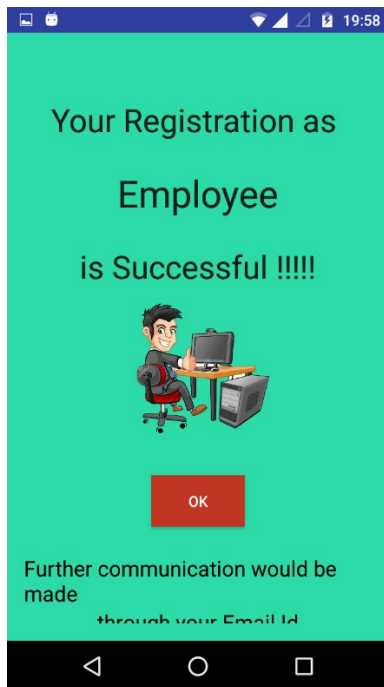


A second screenshot of the "Employee Registration" form, showing the continuation of the registration process. The fields and values are:

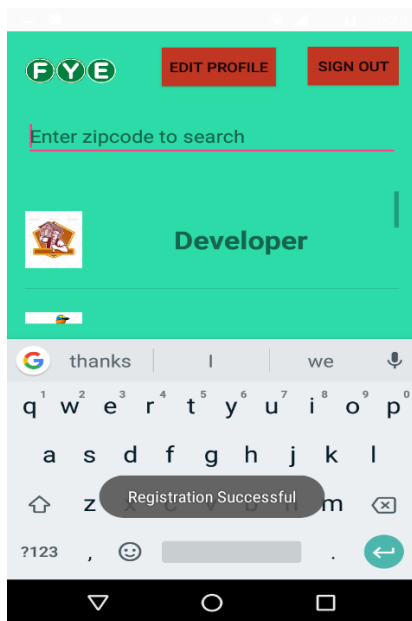
Field	Value
City	Kansas
State	MO
Pincode	64109
Experience	5
Expertise	Automation Te..
Country	US
Username	vinaym
Password
Confirm Password

A red button labeled "NEXT" is positioned at the bottom of the form. The Android navigation bar is visible at the bottom.

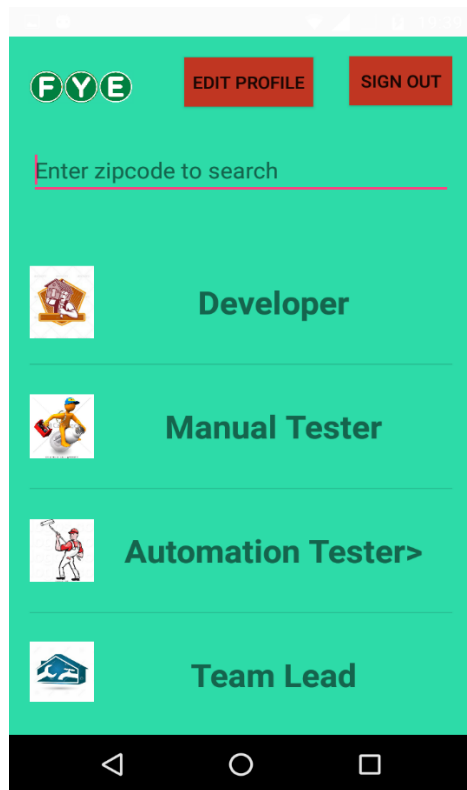
Employee Registration Success



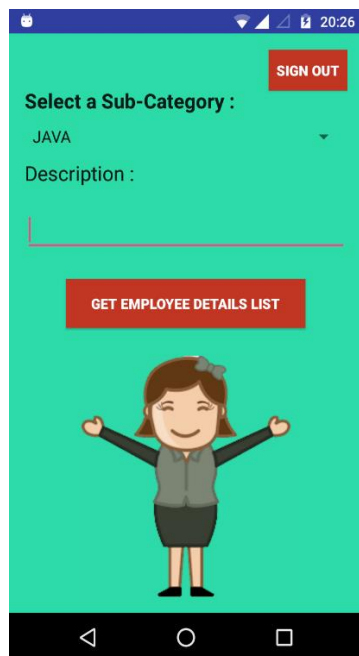
Hirer Registration Success:



Main Page:



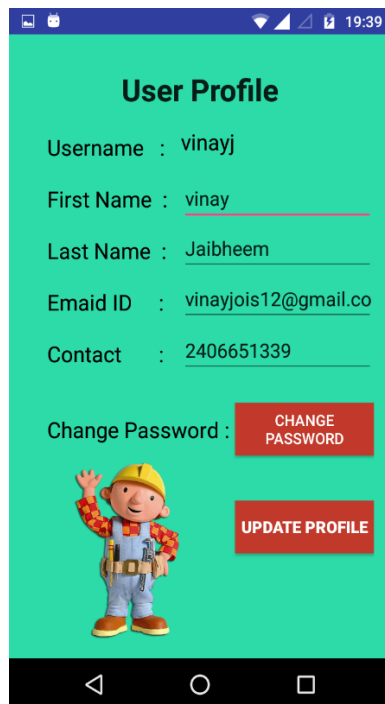
Sub Category Home Page:



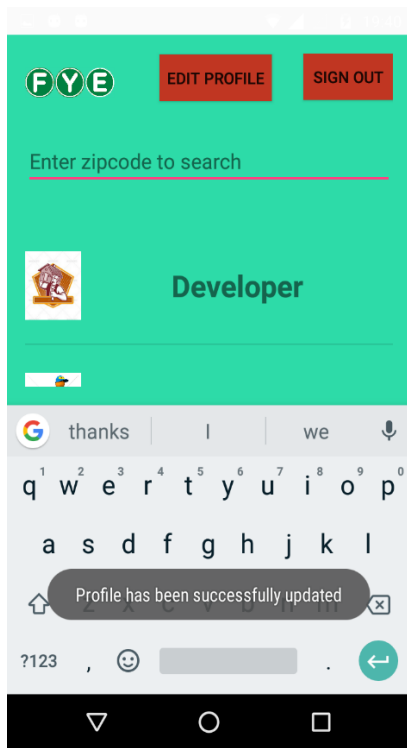
Sub Category Selection:



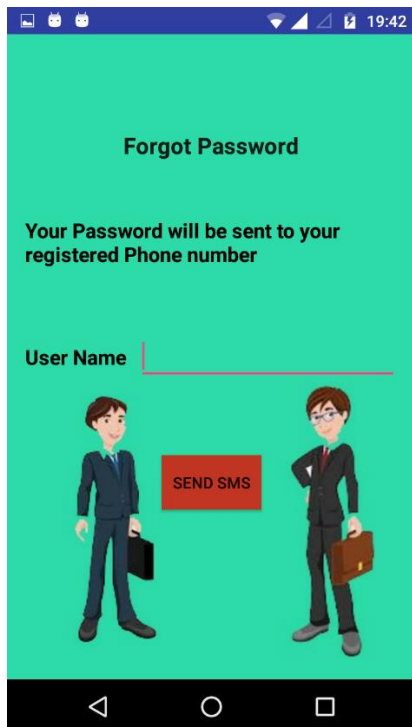
Edit User Profile:



User Profile Update Success:



Forgot Password:



Display Employee List Based on Category and Sub Category:

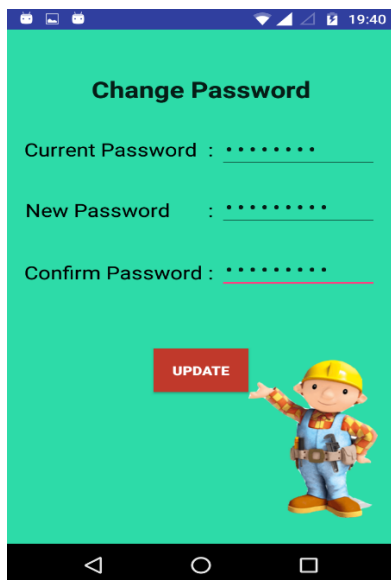


FYE Employees List SIGN OUT

Developer>JAVA

Name	Experience	Rating	Base Fare
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Change Password:




Change Password

Current Password : *

New Password : *

Confirm Password : *

UPDATE



- **GitHub and Wiki Links**

GitHub Link: <https://github.com/PranoopMutha/ASEFinalProject>

Wiki Link: <https://github.com/PranoopMutha/ASEFinalProject/wiki>

- **Project Management**

- **Implementation Status Report**

- **Work Completed**

Created Login Page, Registration Pages for both Employee and Hirer, Home Page, Sub Technology Page with some records from xml as temporary until data base configuration gets completed along with Architecture Diagram, wire frames and UML Diagrams

- **Work to be Completed**

Integrating Firebase DB with android i.e. collect data related to employee and hirer.

- **Bibliography**

www.freelancer.com

www.developers.google.com

www.developers.facebook.com

www.blockchain.info/api

www.creately.com

www.developers.firebase.com