

Second Increment

Introduction:

At times, people migrate to new locations and face difficulties to find people who can fix their household repairs, especially in the initial stages. They can be a plumber, an electrician, a carpenter etc. This problem is the motivation factor for us to build this new application. The primary goal of this application is to provide a one stop solution by finding the right person for corresponding problem, at nearby place, which can help to get their job done at times, people migrate to new locations and face difficulties to find people who can fix their household repairs, especially in the initial stages. They can be a plumber, an electrician, a carpenter etc. This problem is the motivation factor for us to build this new application. The primary goal of this application is to provide a one stop solution by finding the right person for corresponding problem, at nearby place, which can help to get their job done.

Objective:

The main objective of this application is to provide the details of the technicians nearby them, who can resolve the problem and give an opportunity of choosing the technician based on his experience and rating. This helps the user to overcome the difficulties in searching different people from various locations through number of contacts and reviews. User can select the type of problem to know the estimated cost of the repair. This application also provides an opportunity to the technicians to register themselves by creating a profile about their work and experience.

Features:

- User Registration
- User Login
- Provides an option to Select Location
- Select Technician
 - Plumber
 - Carpenter
 - Electrician
 - Painter
 - Mechanic
- Flexibility of providing unlisted subcategory of the problem
- Cost Estimation
- User can provide Feedback
- Technician Registration
- User Logout

Existing APIS:

We are using Google API to get the current address of the user and display it on the home page regardless of whether the user is logged in or not.

Detailed Design:

- **Wire Frames:**

Login Page:

4.00

LOGIN PAGE

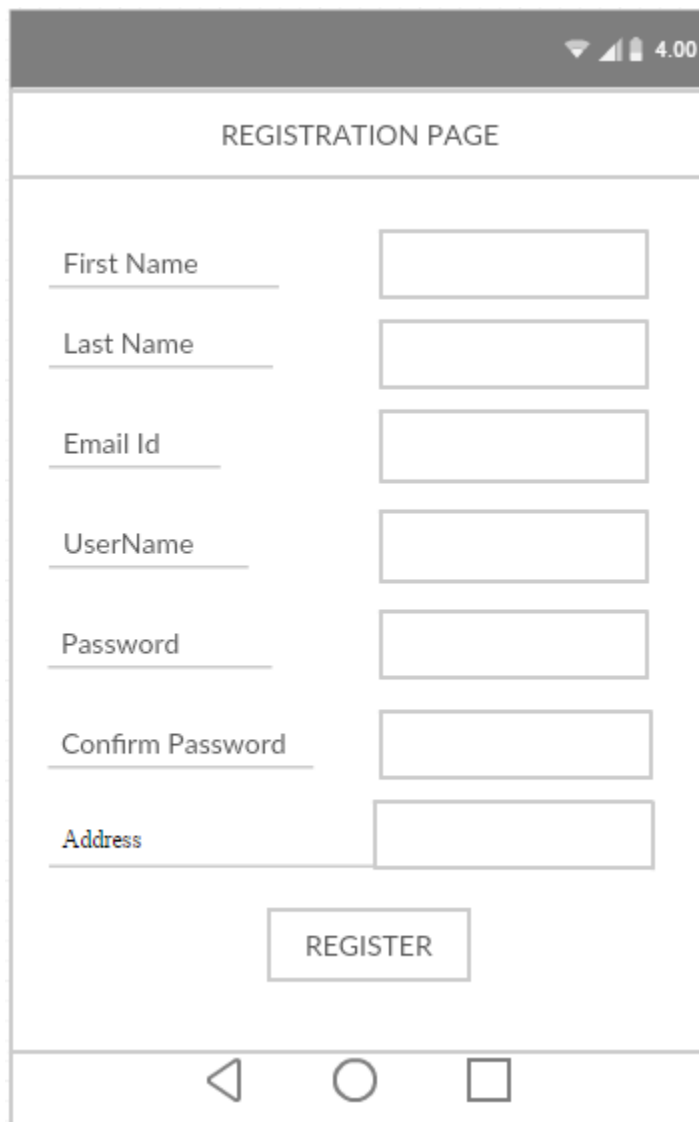
USERNAME

PASSWORD

[Are you a New User?](#)
Please click here

LOGIN

User Registration:

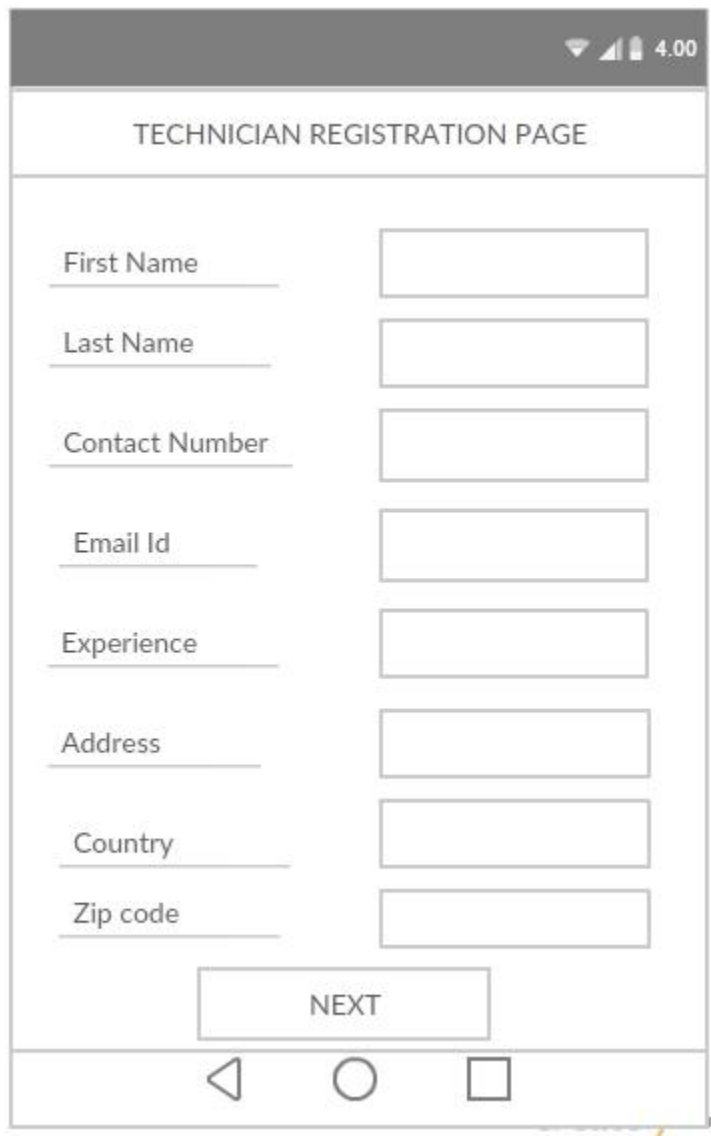


A mobile application registration page titled "REGISTRATION PAGE". The page features a dark grey header bar with status icons (Wi-Fi, cellular signal, battery) and the time "4.00". Below the header, the title "REGISTRATION PAGE" is centered. The form contains seven input fields: "First Name", "Last Name", "Email Id", "UserName", "Password", "Confirm Password", and "Address". Each field is preceded by a label and a horizontal underline. A "REGISTER" button is positioned below the "Confirm Password" field. At the bottom of the screen is an Android-style navigation bar with back, home, and recent apps icons.

First Name	<input type="text"/>
Last Name	<input type="text"/>
Email Id	<input type="text"/>
UserName	<input type="text"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
Address	<input type="text"/>

REGISTER

Technician Registration:



A mobile application interface for technician registration. The screen has a dark grey header bar at the top with status icons (Wi-Fi, signal, battery) and the time 4:00. Below the header is a white title bar with the text "TECHNICIAN REGISTRATION PAGE". The main content area is white and contains eight form fields, each with a label and a text input box. The labels are "First Name", "Last Name", "Contact Number", "Email Id", "Experience", "Address", "Country", and "Zip code". Below the form fields is a "NEXT" button. At the bottom of the screen is a white navigation bar with three icons: a back arrow, a circle, and a square.

TECHNICIAN REGISTRATION PAGE

First Name

Last Name

Contact Number

Email Id

Experience

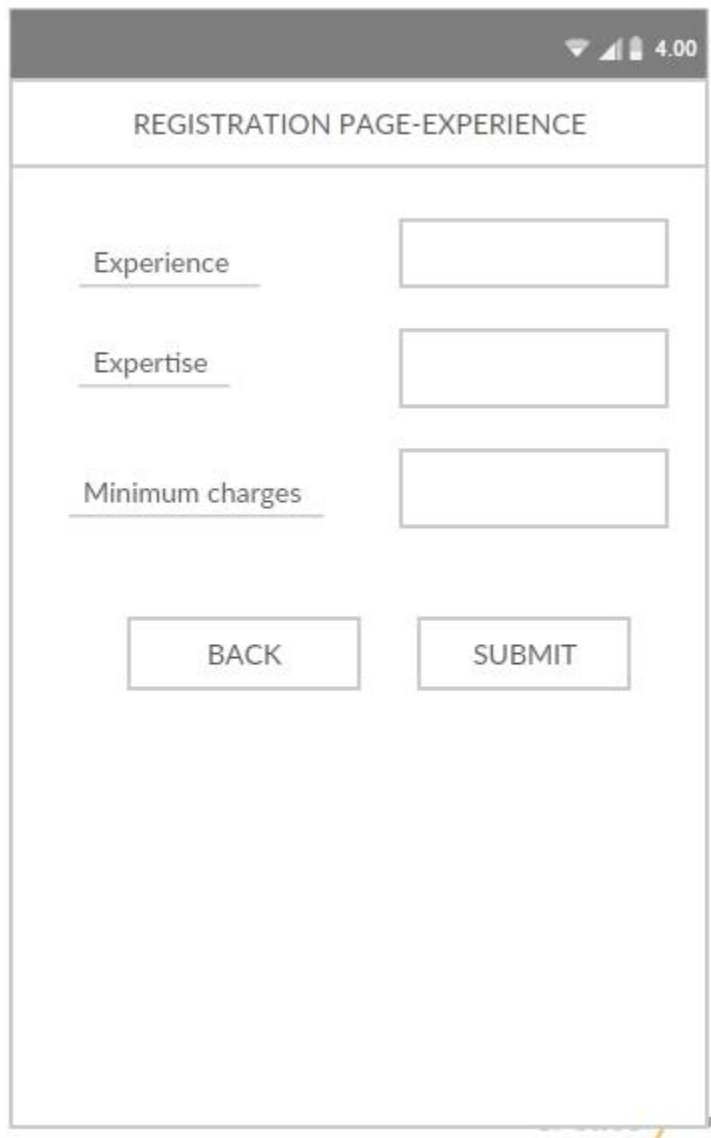
Address

Country

Zip code

NEXT

Technician Experience Registration:



A mobile application interface for technician registration. The screen has a dark grey header bar at the top with status icons (Wi-Fi, cellular signal, battery) and the time 4:00. Below the header is a white title bar with the text "REGISTRATION PAGE-EXPERIENCE". The main content area is white and contains three input fields, each with a label to its left: "Experience", "Expertise", and "Minimum charges". Each label is underlined. To the right of each label is a rectangular text input box. At the bottom of the form are two buttons: "BACK" on the left and "SUBMIT" on the right. A small yellow and orange icon is visible in the bottom right corner of the screen.

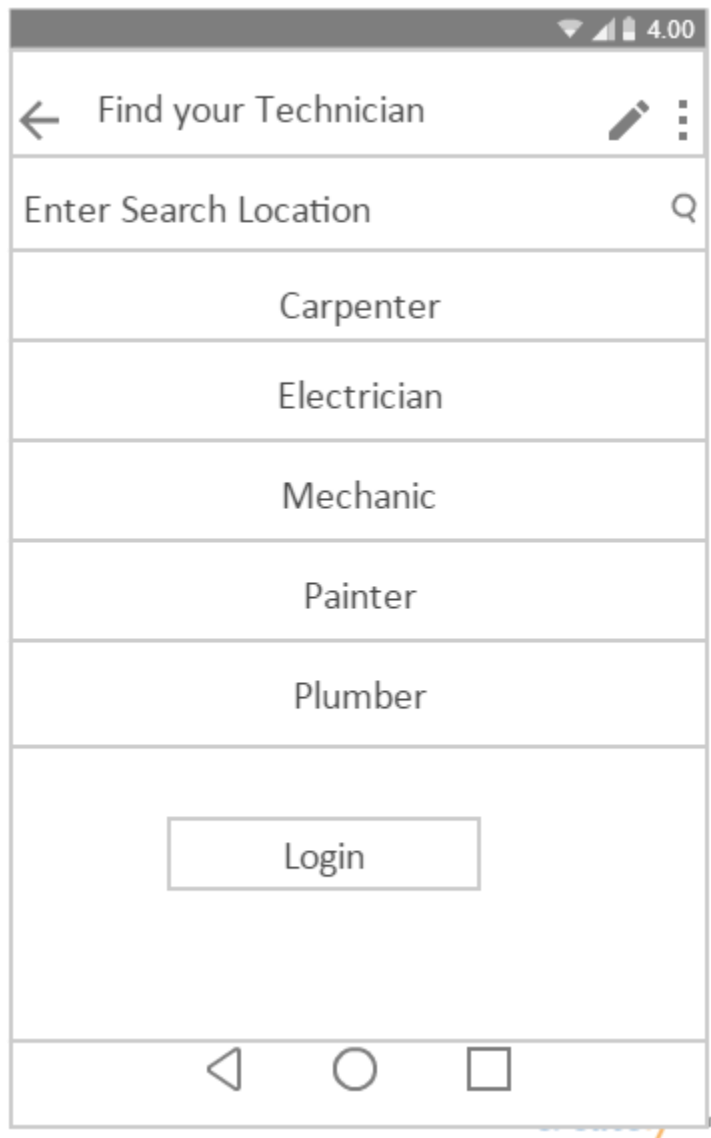
REGISTRATION PAGE-EXPERIENCE

Experience

Expertise

Minimum charges

Home Page:



A mobile application interface for finding technicians. The screen features a status bar at the top with a Wi-Fi icon, signal strength bars, battery level, and the time 4:00. Below the status bar is a header bar with a back arrow, the text "Find your Technician", a pencil icon, and a three-dot menu icon. A search bar follows with the placeholder text "Enter Search Location" and a magnifying glass icon. Below the search bar are five buttons for different technician types: "Carpenter", "Electrician", "Mechanic", "Painter", and "Plumber". A "Login" button is positioned below these options. At the bottom of the screen is an Android navigation bar with back, home, and recent apps icons.

Find your Technician
Enter Search Location
Carpenter
Electrician
Mechanic
Painter
Plumber
Login

Sub Category and Description:

The image is a wireframe of a mobile application interface. At the top, there is a dark grey header bar with a back arrow icon, the text "Find your Technician", a pencil icon, and a three-dot menu icon. Below the header is a white box with the text "Select Sub Category". Underneath this is another white box with the text "Description". The bottom of the screen features a white bar with three navigation icons: a left-pointing triangle, a circle, and a square. The entire interface is enclosed in a thin black border.

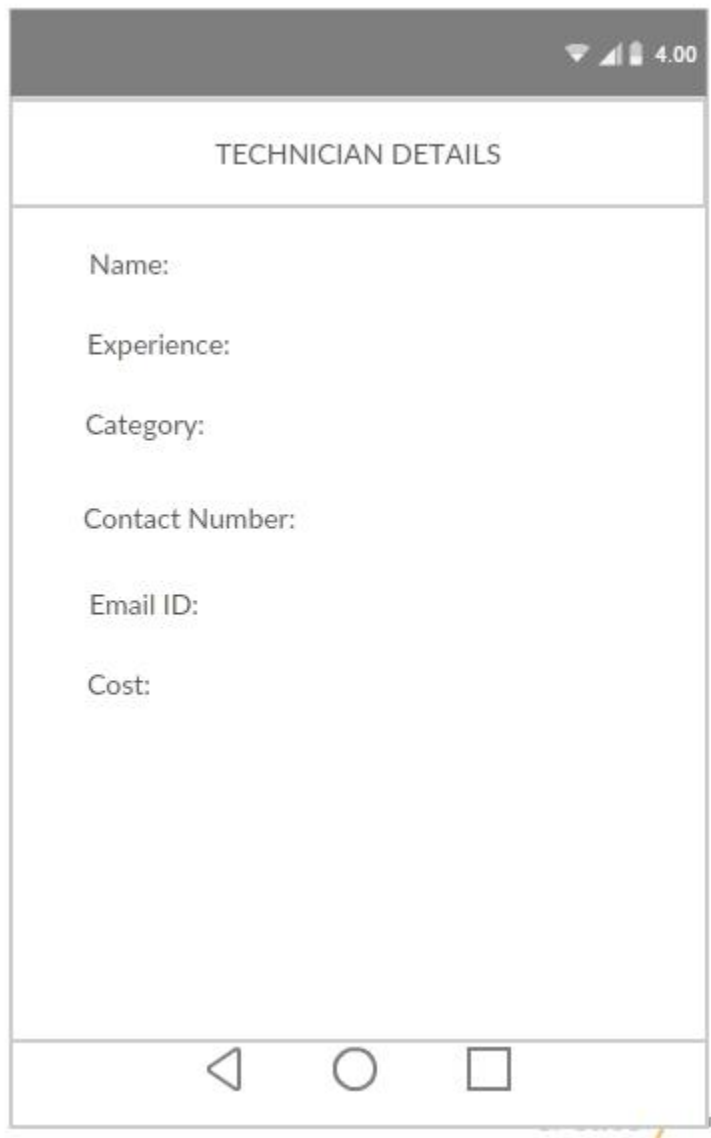
Technician Results:

The screenshot shows a mobile application interface with a dark grey status bar at the top displaying signal strength, battery level, and the time 4:00. The main content area is white and contains the following elements:

- A title bar labeled "TECHNICIAN LIST".
- Two instructional text boxes: "Please choose the category from drop down" and "Please choose the sub category from the drop".
- A table with four columns: NAME, EXPERIENCE, RATING, and COST.
- Two rows of technician data: John (5 years, 4 stars, 150\$) and Clark (7 years, 4 stars, 250\$).
- A text box: "Please click on the technician to get the details".
- A large empty rectangular area.
- A text box: "I have read and agree to be bound by the Terms and Conditions and Privacy Policy".
- A bottom navigation bar with three icons: a back arrow, a circle, and a square.

NAME	EXPERIENCE	RATING	COST
JOHN	5 YEARS	****	150\$
CLARK	7 YEARS	****	250\$

Technician Details:



The image is a screenshot of a mobile application interface. At the top, there is a dark grey status bar with icons for Wi-Fi, cellular signal, and battery, along with the time "4.00". Below this is a white header bar with the text "TECHNICIAN DETAILS" in a bold, sans-serif font. The main content area is a large white rectangle containing six labels: "Name:", "Experience:", "Category:", "Contact Number:", "Email ID:", and "Cost:", each followed by a wide, empty text input field. At the bottom of the screen is a white navigation bar with three icons: a left-pointing triangle, a circle, and a square. The entire application is displayed on a black background.

TECHNICIAN DETAILS

Name:

Experience:

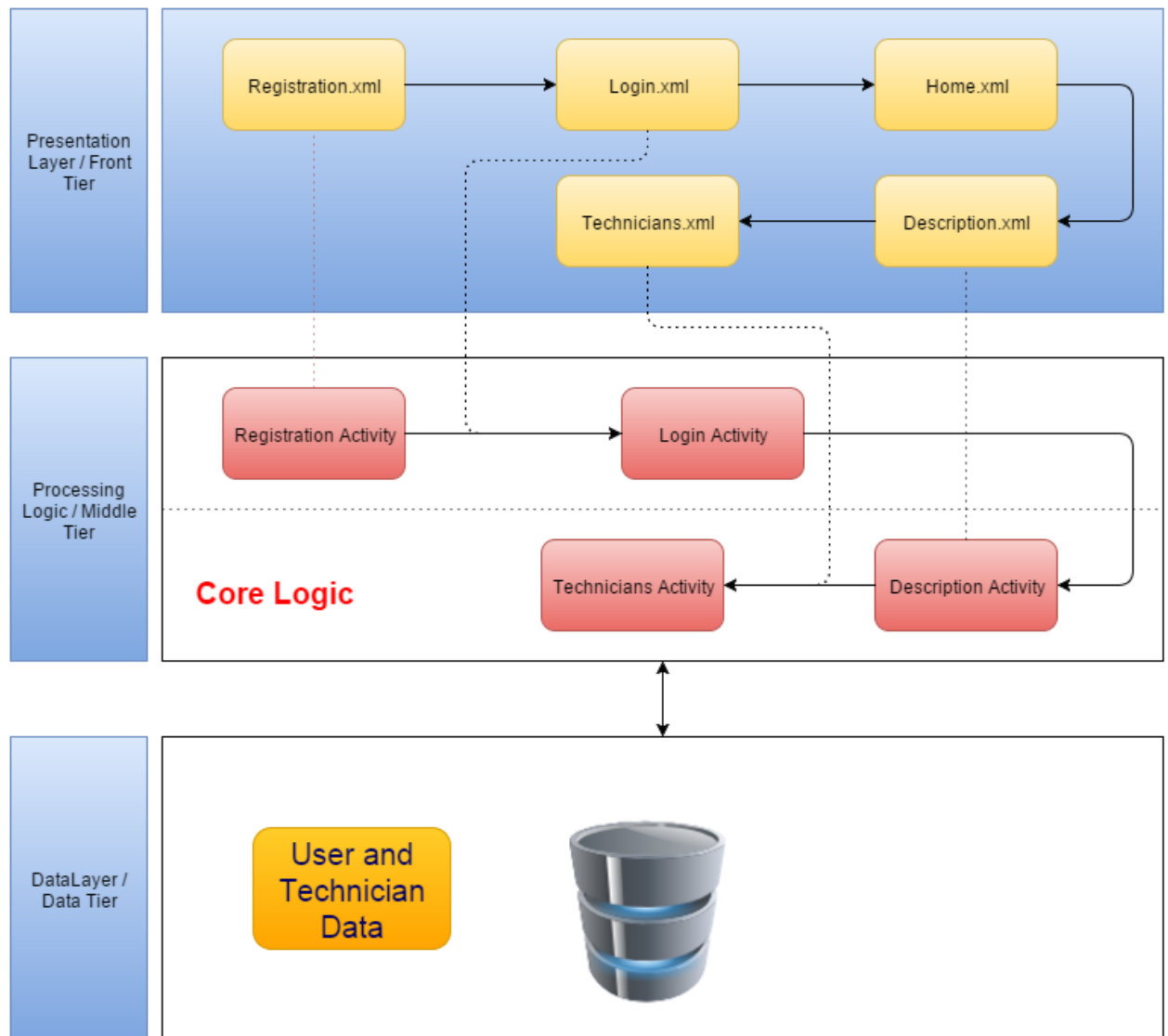
Category:

Contact Number:

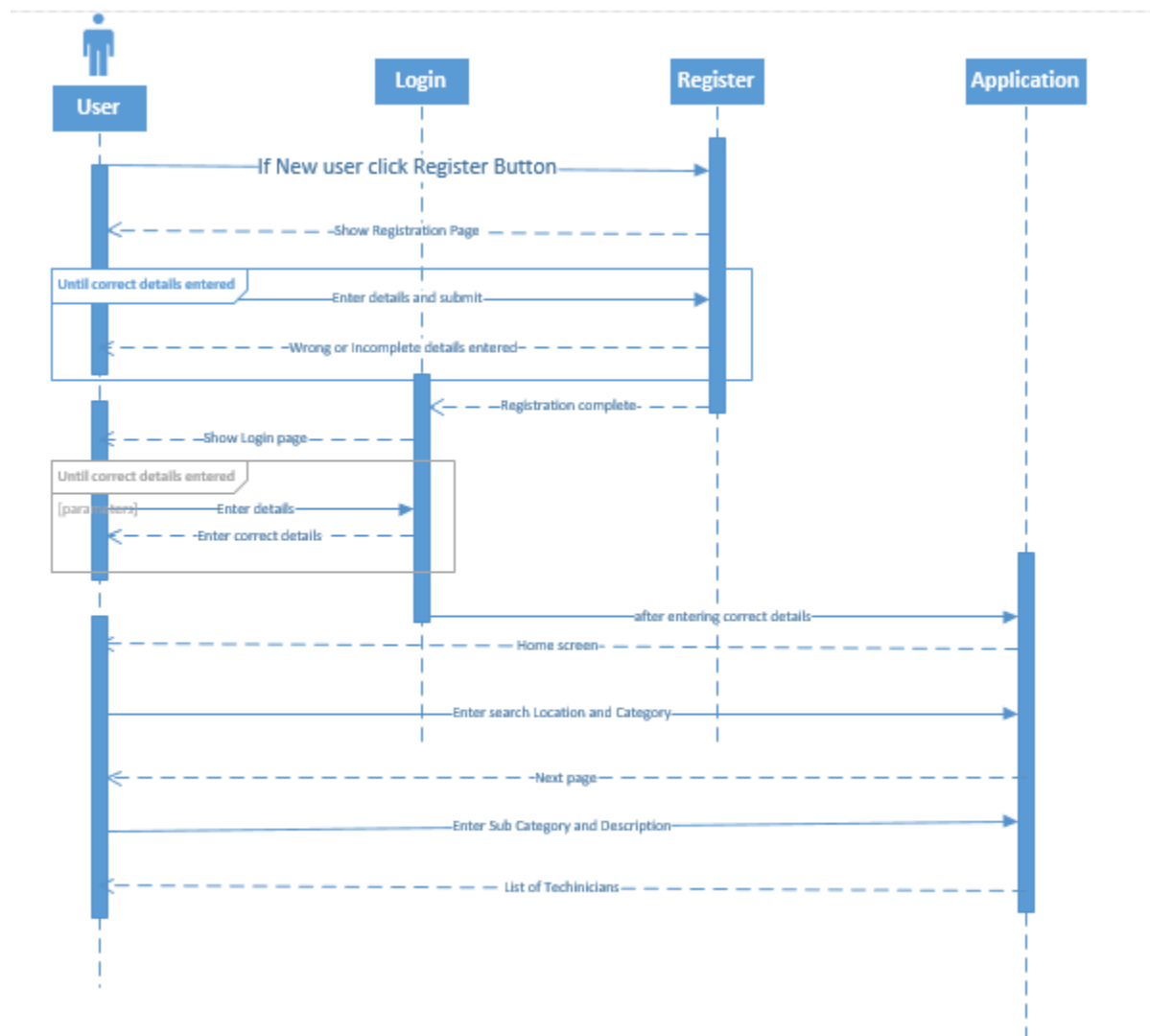
Email ID:

Cost:

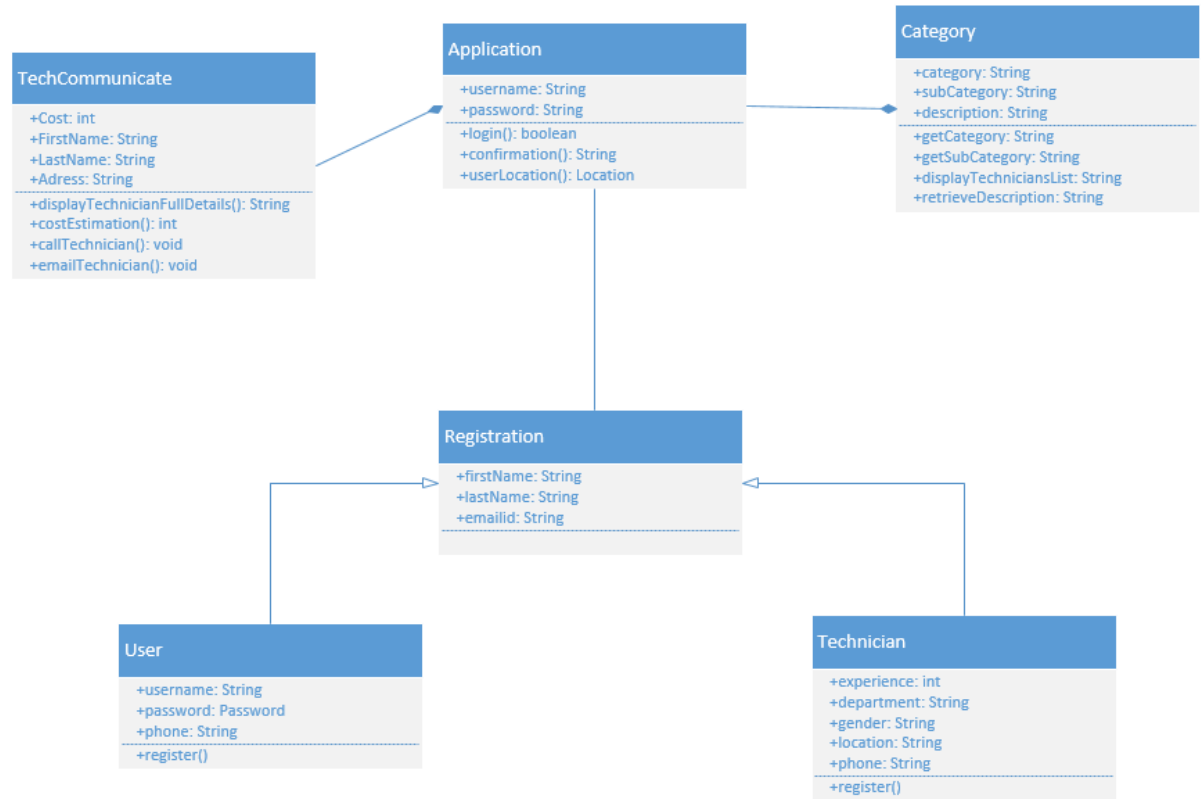
Architecture Diagram:



Sequence Diagram:



Class Diagram:



Use Cases:

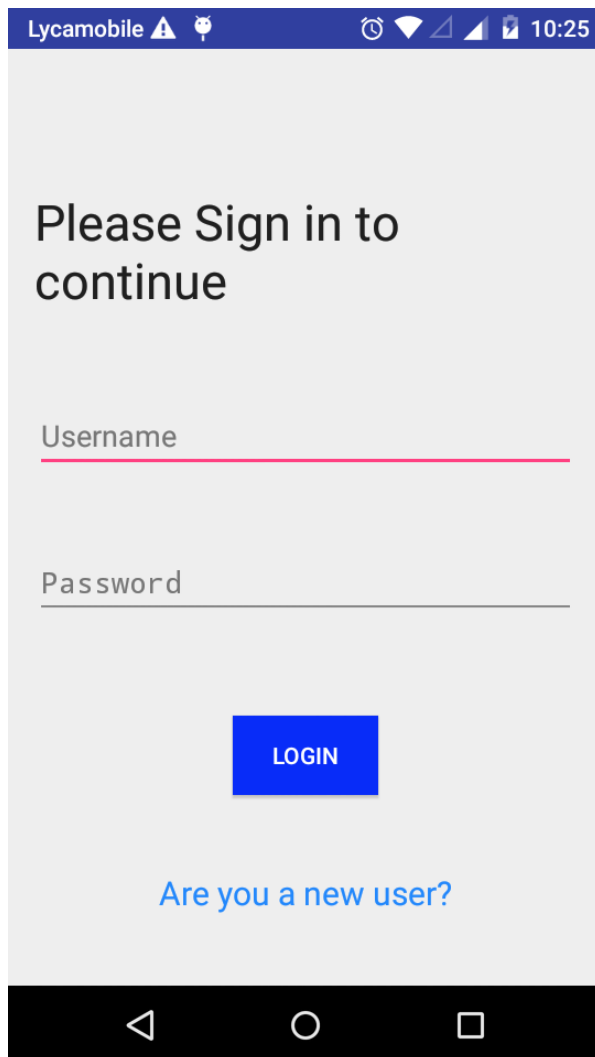
- **Technician Profile Registration:** Check user is able to give the full details to register to the account
- **Technician Experience Registration:** Check user is able to give the full details to register to the account
- **Home Page:** Check user is able to search for the required technician
- **Sub Category Page:** Check user is able to select the subcategory page

Implementation:

The Implementation of the design mentioned above would be processed using **Android Studio** as Mobile Client Implementation Method and the Source code has been included in the Source code folder attached with the Report. Architecture, Class and Sequence diagrams are drawn using Microsoft Visual Studio. While wireframes are drawn in Creatly.com

Deployment:

User Login:



Lycamobile 10:25

Please Sign in to
continue

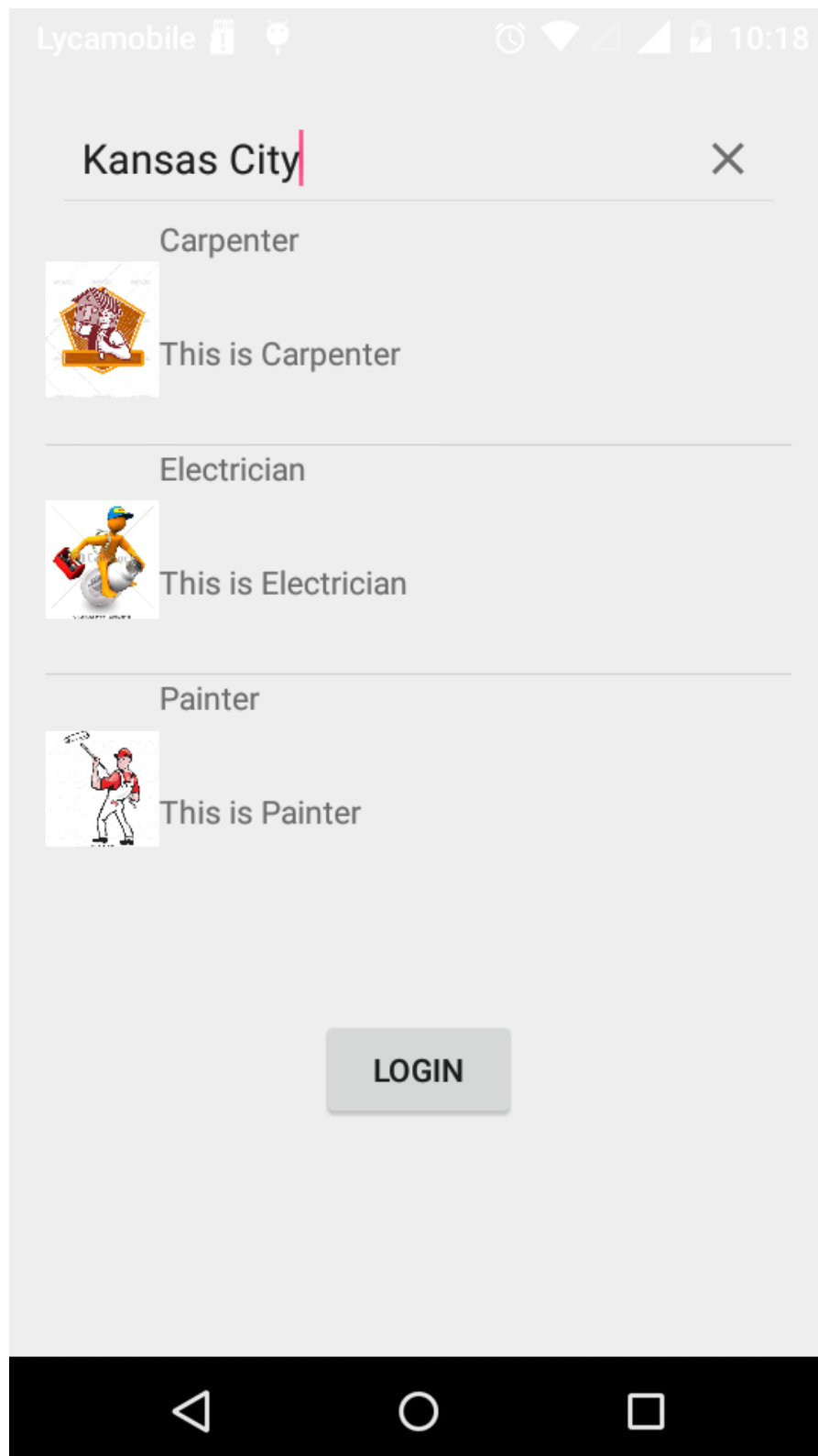
Username

Password






LOGIN

Are you a new user?

Home Page



Technician Registration:

Lycamobile      10:08

FindYourTechnician

Technician Registration

First name

Last Name


Email id

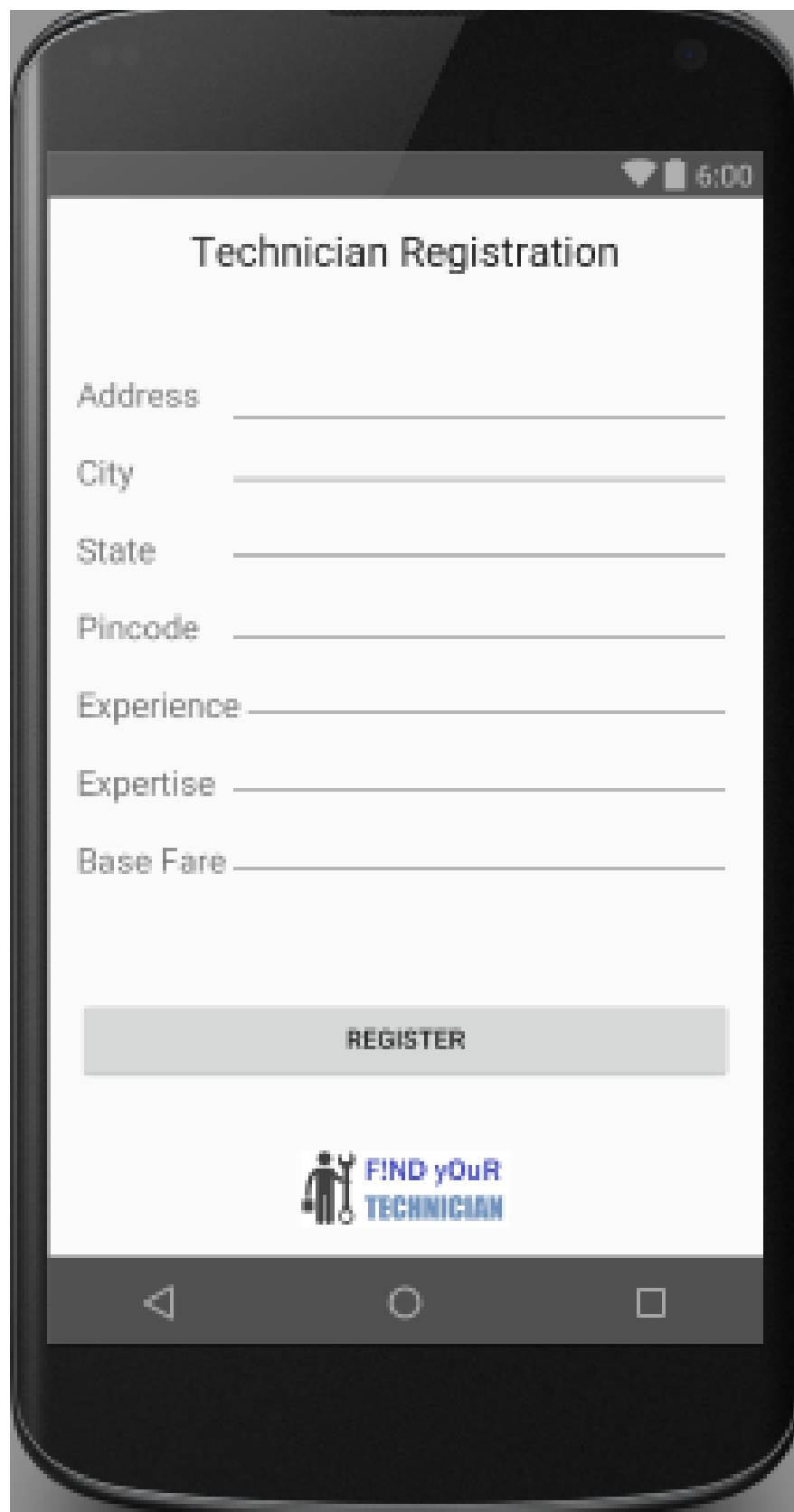
Contact

Username

Password

Confirm Password





A smartphone mockup displaying a 'Technician Registration' form. The screen shows a status bar at the top with a Wi-Fi icon, a battery icon, and the time '6:00'. The form has a title 'Technician Registration' and seven input fields: 'Address', 'City', 'State', 'Pincode', 'Experience', 'Expertise', and 'Base Fare'. Below the fields is a 'REGISTER' button. At the bottom of the screen is a logo for 'FIND yOuR TECHNICIAN' featuring a stylized figure with a wrench and a screwdriver.

6:00

Technician Registration

Address _____

City _____

State _____


Pincode _____

Experience _____

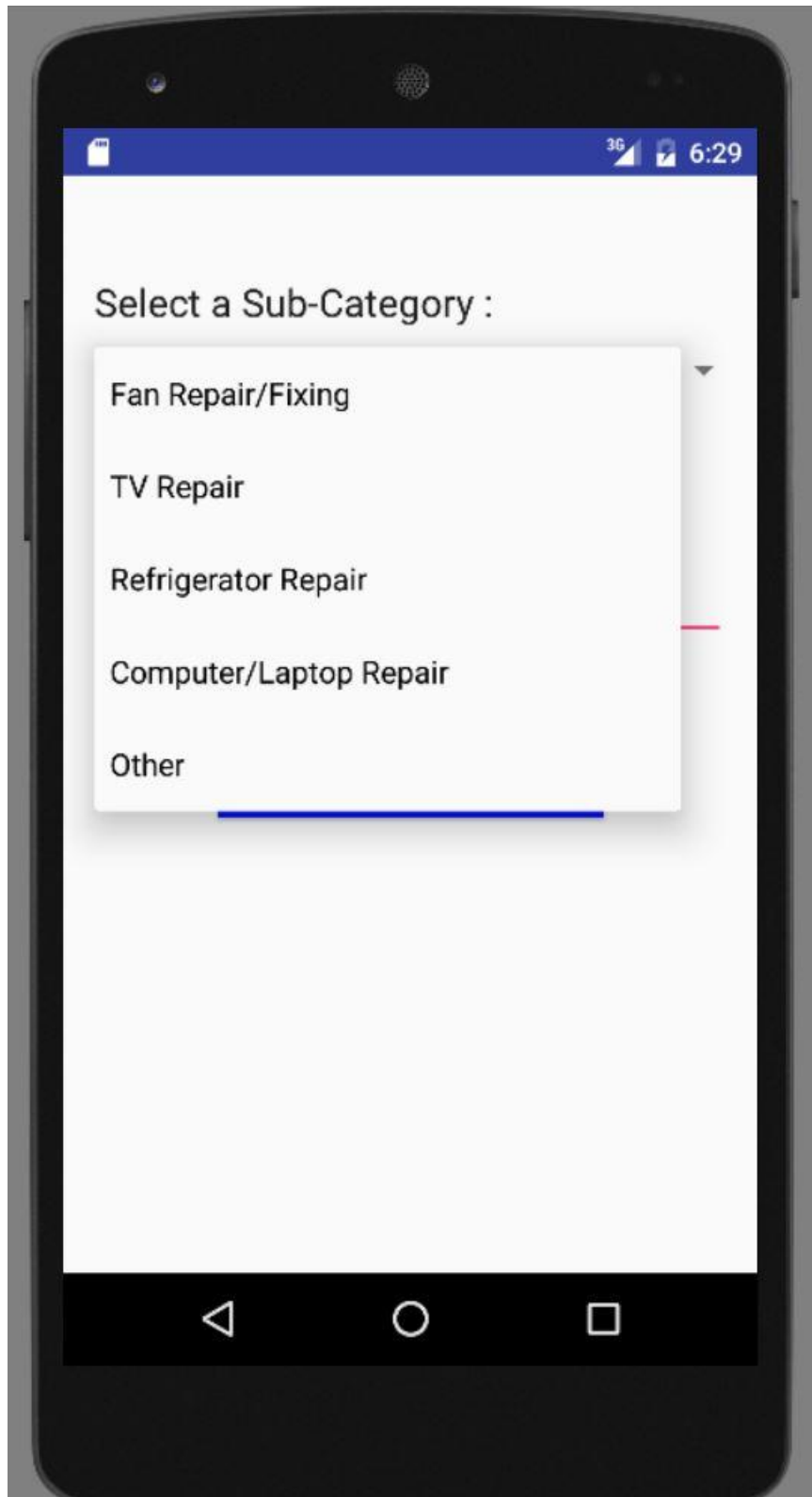
Expertise _____

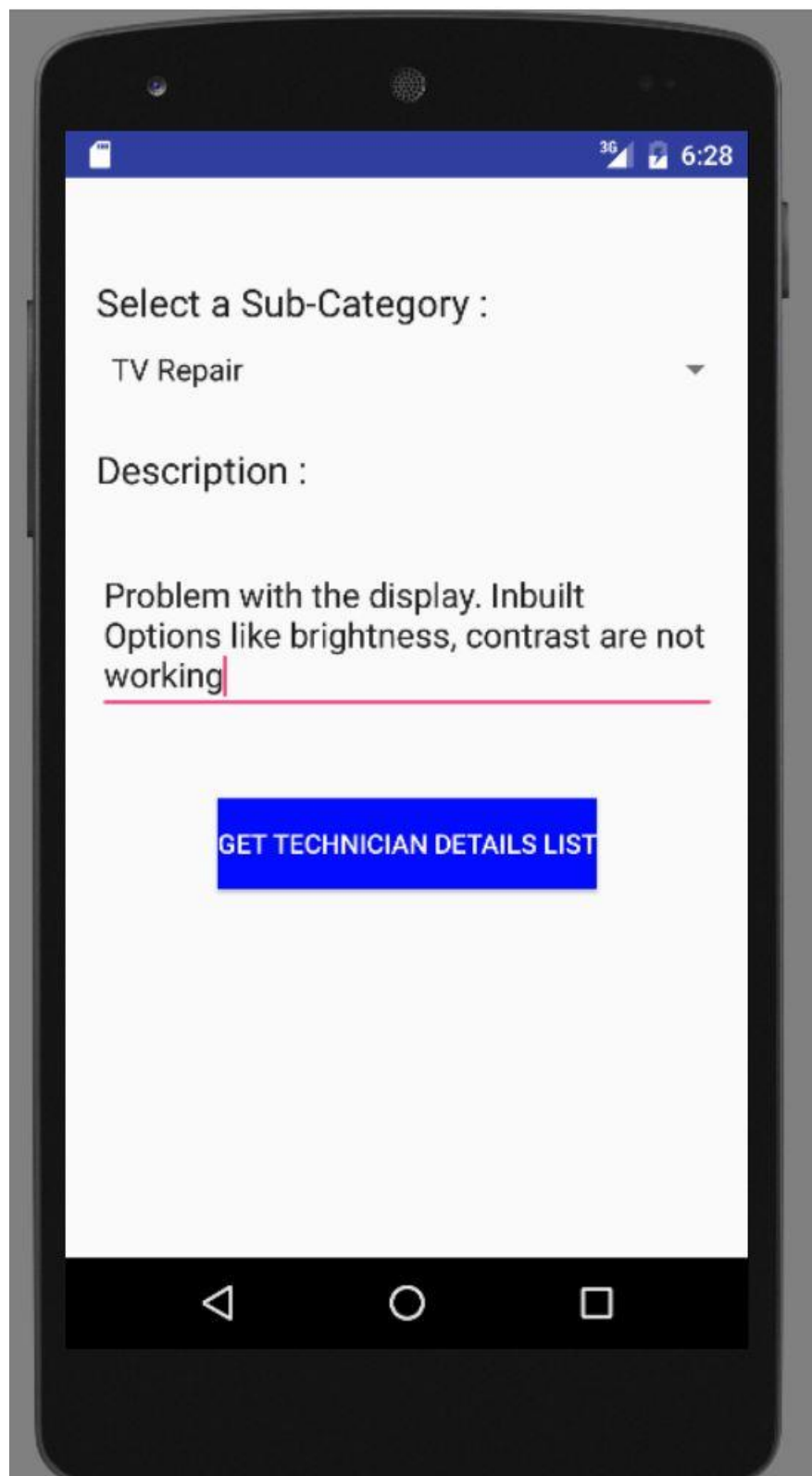
Base Fare _____

REGISTER

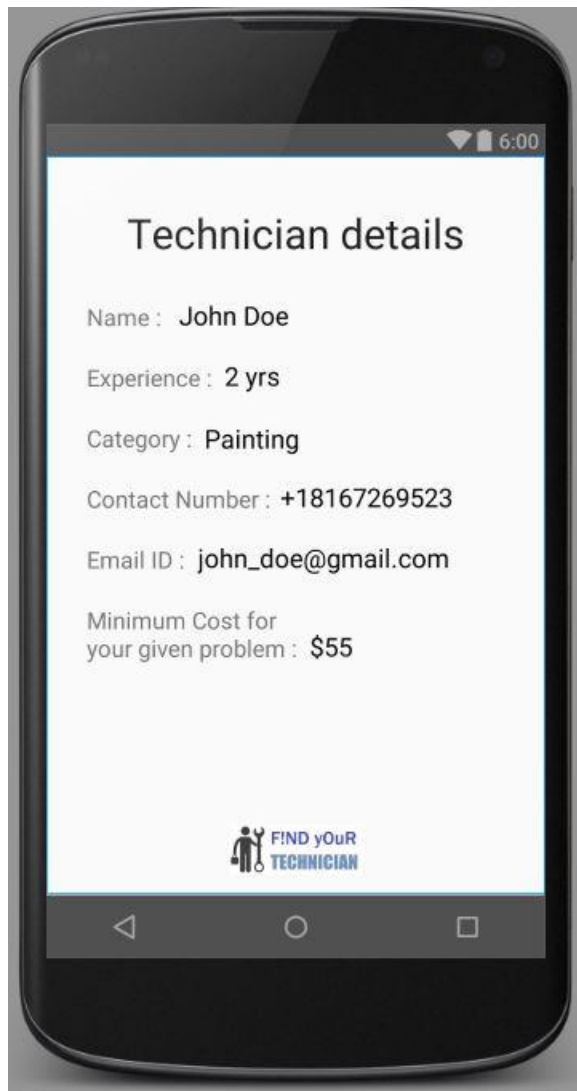
 FIND yOuR
TECHNICIAN

Sub Category:





Technician Details Page:

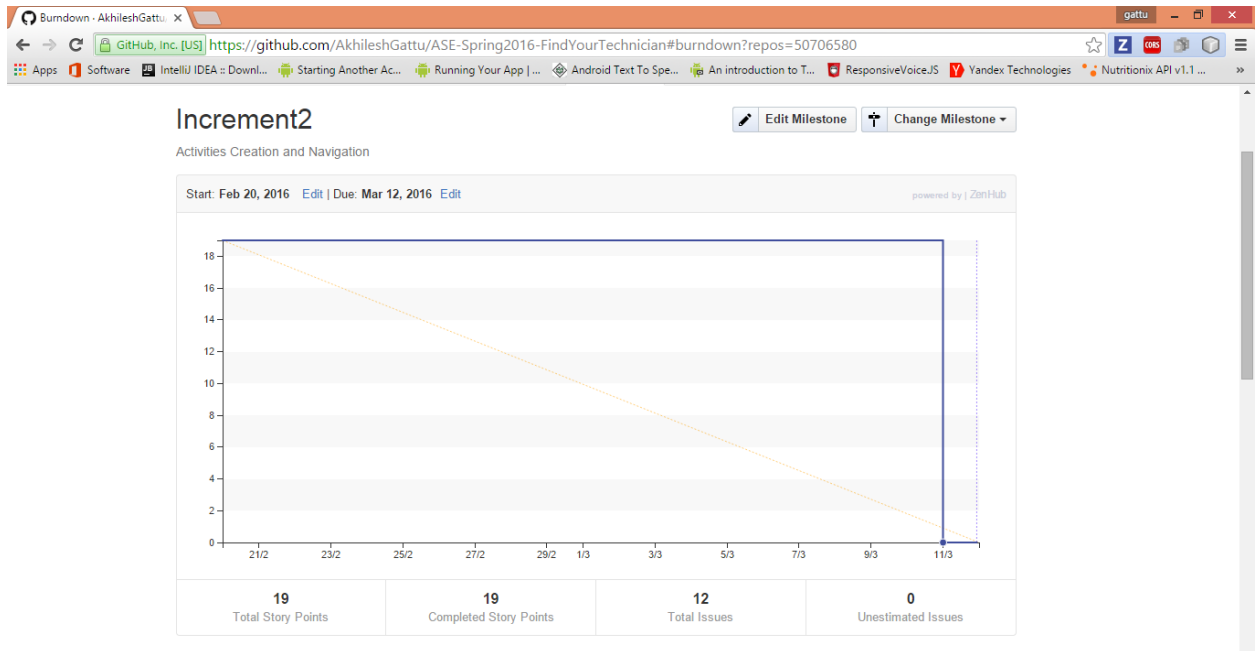


GitHub URL: <https://github.com/AkhileshGattu/ASE-Spring2016-FindYourTechnician>

Project Management:

- **Work completed:**

Created Login Page, User Registration Page, Technician Registration, Home Page, Sub Category Page, and Technician Search Results Pages along with Architecture diagram, wireframes and UML Diagrams.



Burndown - AkhileshGattu X gattu

← → ↻ GitHub, Inc. [US] <https://github.com/AkhileshGattu/ASE-Spring2016-FindYourTechnician#burndown?repos=50706580> Z co

Apps Software IntelliJ IDEA = Downl... Starting Another Ac... Running Your App | ... Android Text To Spe... An introduction to T... ResponsiveVoiceJS Yandex Technologies Nutritionix API v1.1 ...

Increment2

Repository	Issues	Story Points
ASE-Spring2016-FindYourTechnician	#26 System Testing	2
ASE-Spring2016-FindYourTechnician	#20 Create Technician Search Results Page	2
ASE-Spring2016-FindYourTechnician	#19 Create Technician Details Page	2
ASE-Spring2016-FindYourTechnician	#18 Beautify Login Page	2
ASE-Spring2016-FindYourTechnician	#17 Beautify Registration Page	2
ASE-Spring2016-FindYourTechnician	#16 Create Sub Category Page	2
ASE-Spring2016-FindYourTechnician	#15 Create Home Page	2
ASE-Spring2016-FindYourTechnician	#25 Creating Issues and Test Cases	1
ASE-Spring2016-FindYourTechnician	#24 Taking Technician Experience Details	1
ASE-Spring2016-FindYourTechnician	#23 Create Technician Registration Page	1
ASE-Spring2016-FindYourTechnician	#22 Test Scenarios	1

Work to be completed:

Collecting data and validating the user input data with proper conditions, Integrating application with the Database and complete System Testing.

Bibliography:

- o <http://ziffi.com>
- o <http://developer.android.com>
- o <http://draw.io>
- o <http://creatly.com>