

# Third 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:

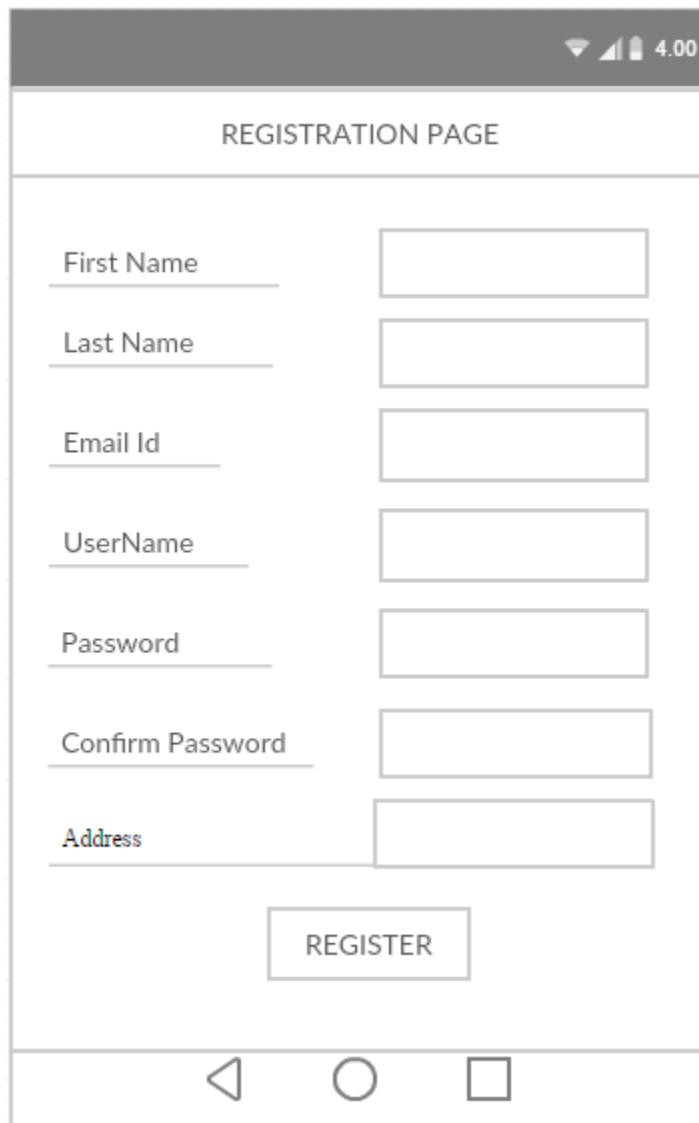
- **Wire Frames:**

#### User Login Page:



The wireframe shows a mobile application interface for a user login page. At the top, there is a status bar with icons for Wi-Fi, cellular signal, and battery, along with the time 4:00. Below the status bar, the text "Sign in to Continue" is centered. Underneath, there are two input fields: "Username" and "Password". Below the input fields, there are two buttons, both labeled "BUTTON". At the bottom of the main content area, there are two links: "Forgot Password" and "Are you a Technician?". The bottom of the screen features a standard Android navigation bar with back, home, and recent apps icons.

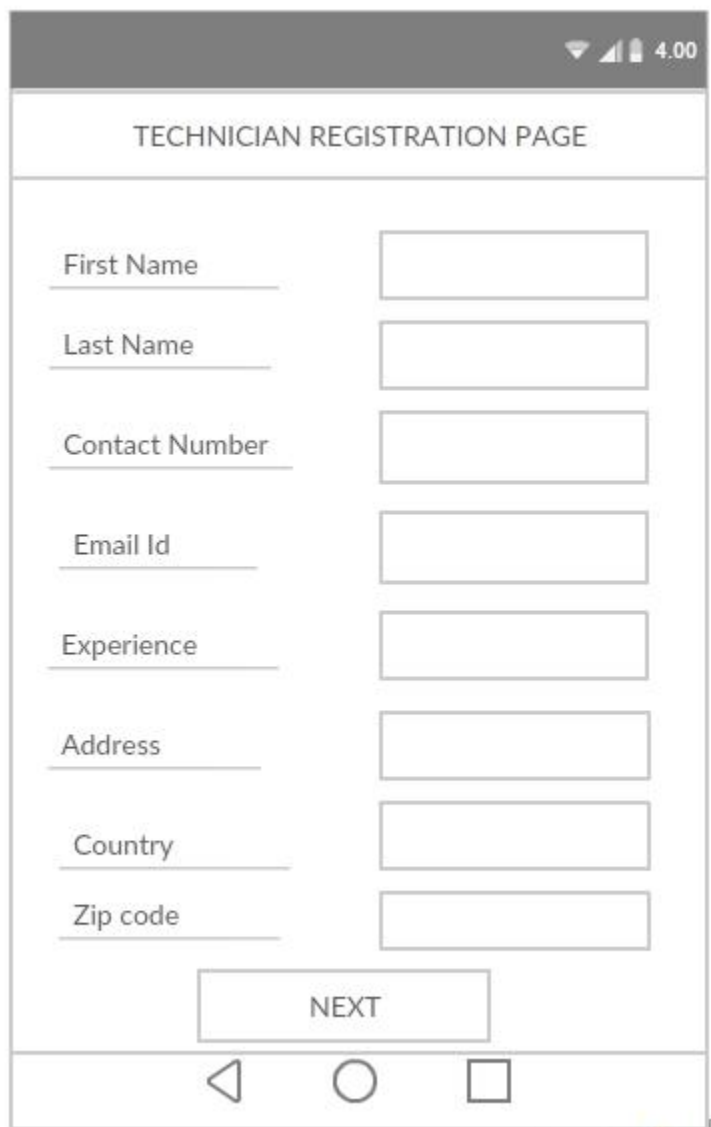
## User Registration:



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 consists of seven input fields, each with a label to its left: "First Name", "Last Name", "Email Id", "UserName", "Password", "Confirm Password", and "Address". The "Address" label is in red. A "REGISTER" button is positioned below the "Address" field. At the bottom of the screen is a white navigation bar with three icons: a back arrow, a circle, and a square.

| REGISTRATION PAGE                       |                          |
|---|--------------------------|
| 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"/>     |
| <input type="button" value="REGISTER"/> |                          |

## Technician Registration:



The image shows a mobile application interface for technician registration. At the top, a dark status bar displays a Wi-Fi icon, a cellular signal icon, a battery icon, and the time 4:00. Below this is a white header bar with the text "TECHNICIAN REGISTRATION PAGE". The main content area is white and contains eight form fields, each with a label and a corresponding input box. The labels are "First Name", "Last Name", "Contact Number", "Email Id", "Experience", "Address", "Country", and "Zip code". Below the input boxes 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

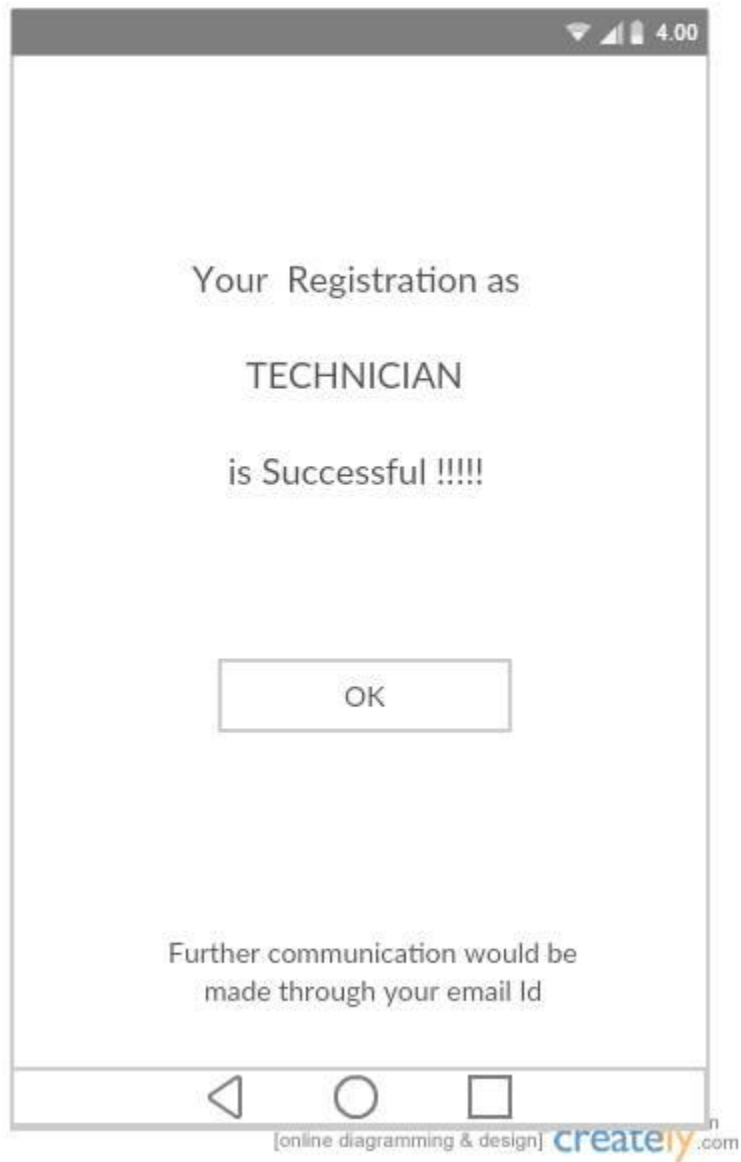
Address

Country

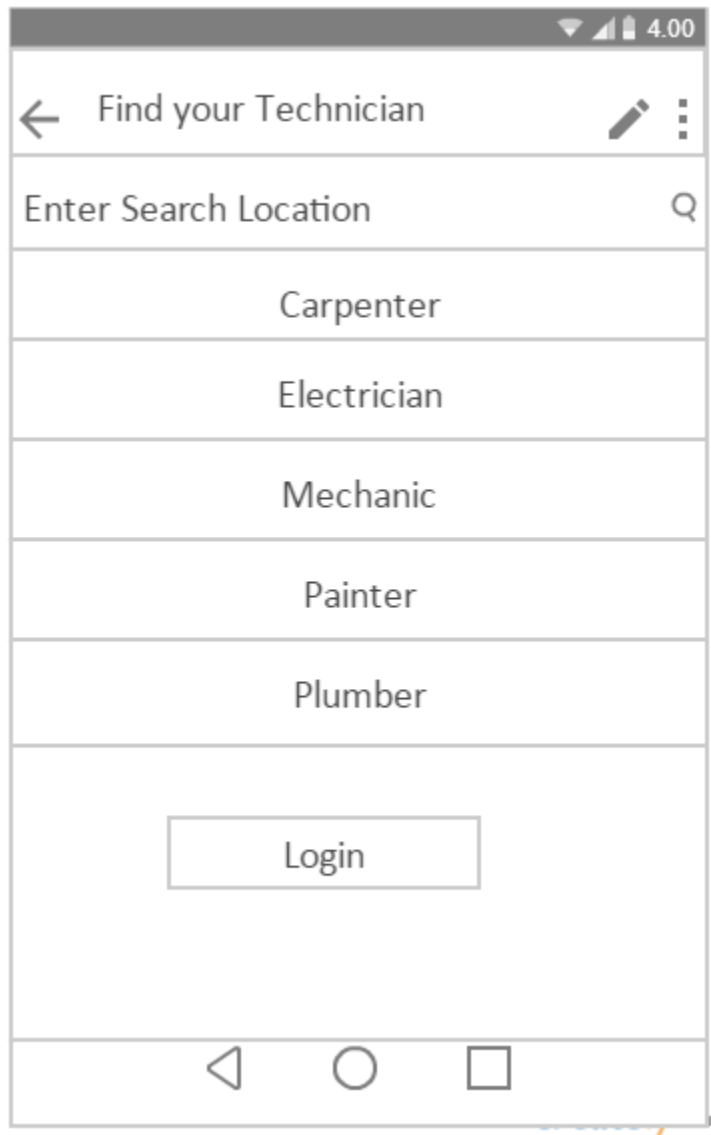
Zip code

NEXT

### Technician Registration Completion:



## Home Page:



A mobile application interface for finding technicians. The screen has a dark grey header bar at the top with a back arrow, the text "Find your Technician", a pencil icon, and a three-dot menu icon. Below the header is a search bar with the placeholder text "Enter Search Location" and a magnifying glass icon. The main content area consists of five light grey rectangular buttons stacked vertically, labeled "Carpenter", "Electrician", "Mechanic", "Painter", and "Plumber". Below these buttons is a larger light grey rectangular button labeled "Login". At the bottom of the screen is a white bar with three navigation icons: a triangle, a circle, and a square. The status bar at the very top shows a Wi-Fi icon, a signal strength icon, a battery icon, and the number "4.00".

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

### Sub Category and Description:

The image shows a mobile application interface for finding a technician. At the top, there is a status bar 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. The main content area is divided into two sections: "Select Sub Category" and "Description". The "Select Sub Category" section is a single-line text input field. The "Description" section is a larger text area with a placeholder text "Description". At the bottom of the screen is an Android-style navigation bar with three icons: a triangle, a circle, and a square.

### Technician Results:

TECHNICIAN LIST

Please choose the category from drop down

Please choose the sub category from the drop

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

Please click on the technician to get the details

I have read and agree to be bound by the Terms and Conditions and Privacy Policy



### Technician Details:

4.00

TECHNICIAN DETAILS

Name:

Experience:

Category:

Contact Number:

Email ID:

Cost:

## Forgot Password Page:

Forgot Password

Your Password will be sent to you through  
below mentioned email

Email ID

SEND EMAIL

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## Confirm Password:



The image shows a mobile application interface for changing a password. At the top, there is a status bar with a Wi-Fi icon, a signal strength icon, a battery icon, and the time 4:00. Below the status bar, the title "Change Password" is centered. The form consists of three input fields: "Current Password", "New Password", and "Confirm Password". Each field is represented by a text label followed by a horizontal line. Below the input fields, there is a rectangular button labeled "UPDATE". At the bottom of the screen, there is a navigation bar with three icons: a back arrow, a circle, and a square. A watermark "createely.com" is visible at the bottom right of the screen.

Change Password

Current Password

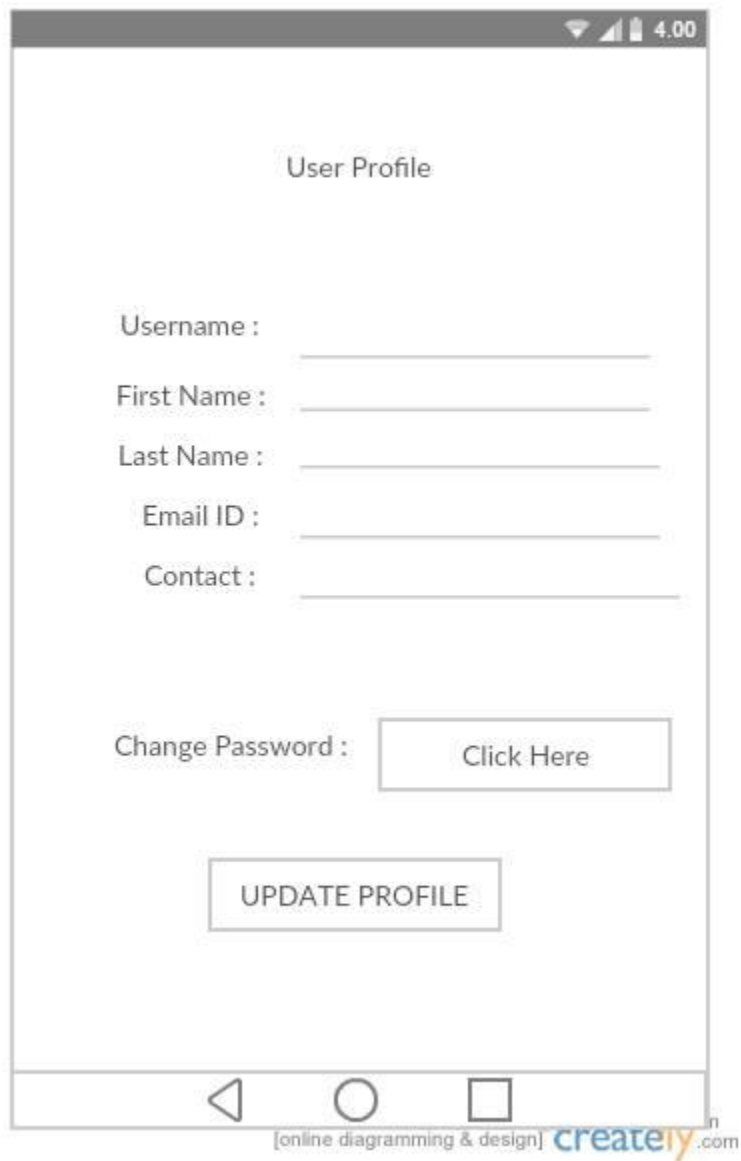
New Password

Confirm Password

UPDATE

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### Edit Profile Page:



A mobile application mockup for an 'Edit Profile' page. The screen has a dark grey status bar at the top with icons for Wi-Fi, cellular signal, and battery, and the time '4.00'. The main content area is white and titled 'User Profile' in a bold, dark grey font. Below the title are five form fields, each with a label and a text input line: 'Username :', 'First Name :', 'Last Name :', 'Email ID :', and 'Contact :'. Below these fields is a 'Change Password :' label followed by a rectangular button labeled 'Click Here'. At the bottom of the form area is a larger rectangular button labeled 'UPDATE PROFILE'. The screen is framed by a dark grey border, and at the very bottom is a white navigation bar with three icons: a back arrow, a circle, and a square. A watermark 'createely.com' is visible in the bottom right corner.

User Profile

Username : \_\_\_\_\_

First Name : \_\_\_\_\_

Last Name : \_\_\_\_\_

Email ID : \_\_\_\_\_

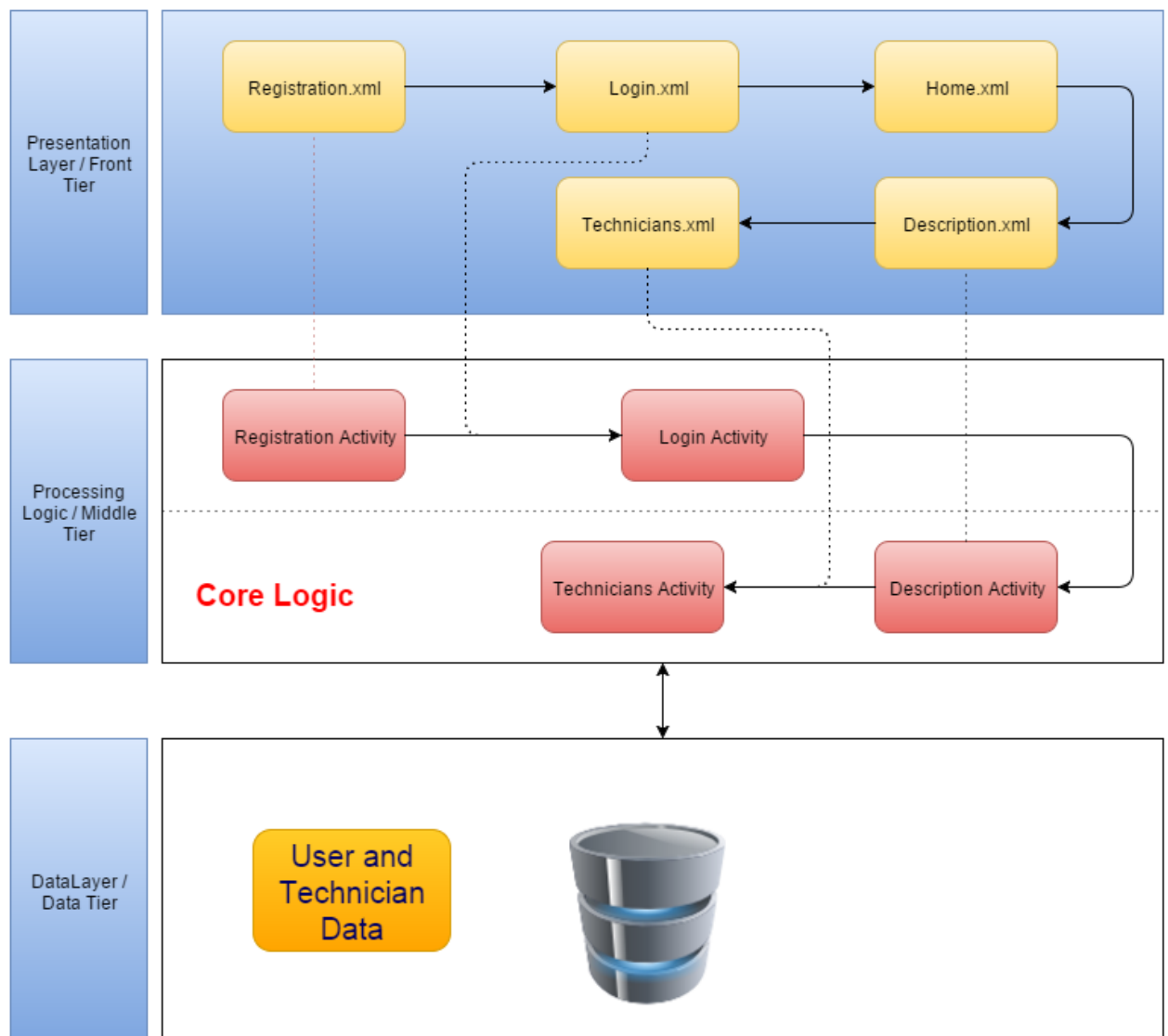
Contact : \_\_\_\_\_

Change Password : [Click Here](#)

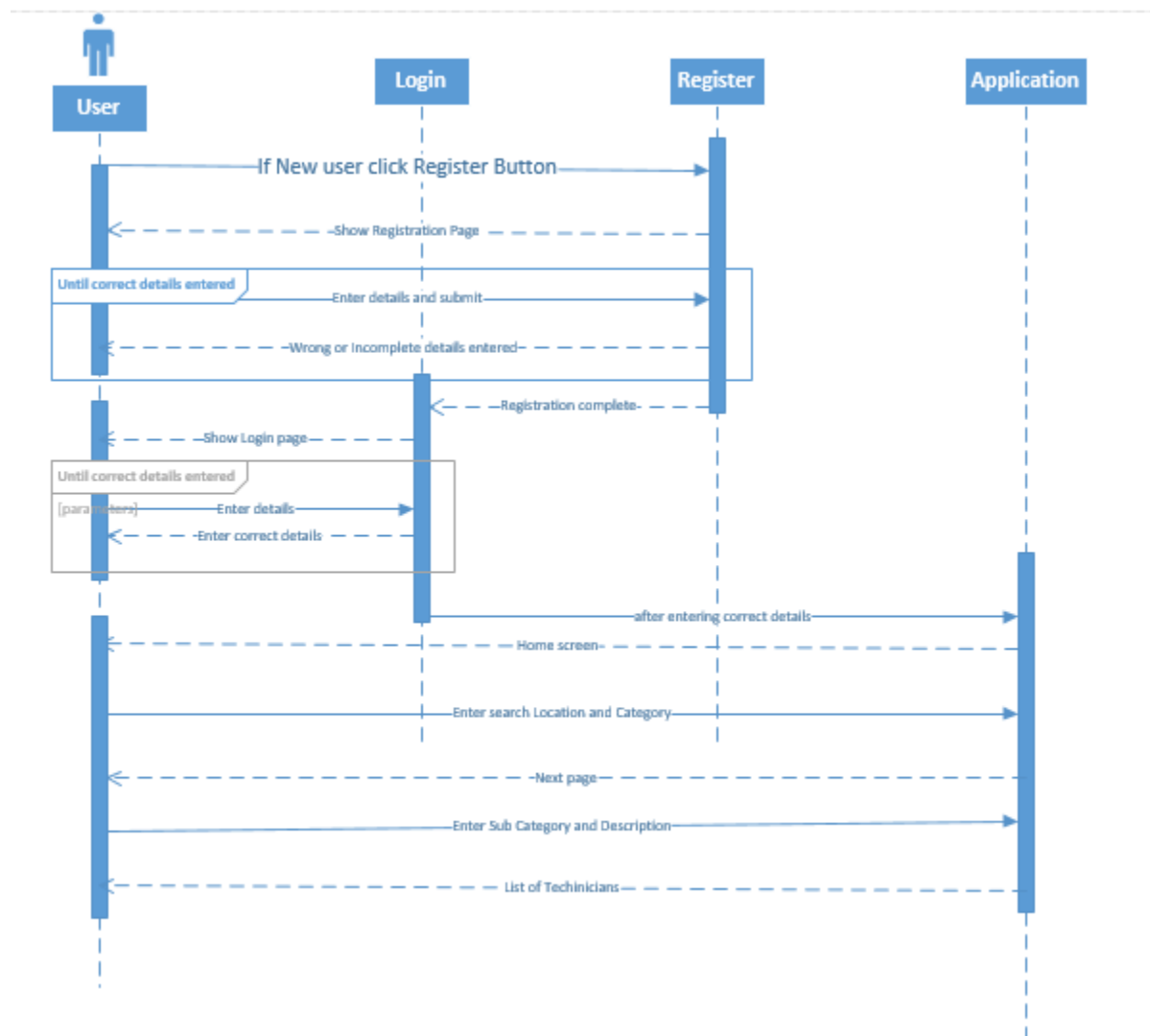
[UPDATE PROFILE](#)

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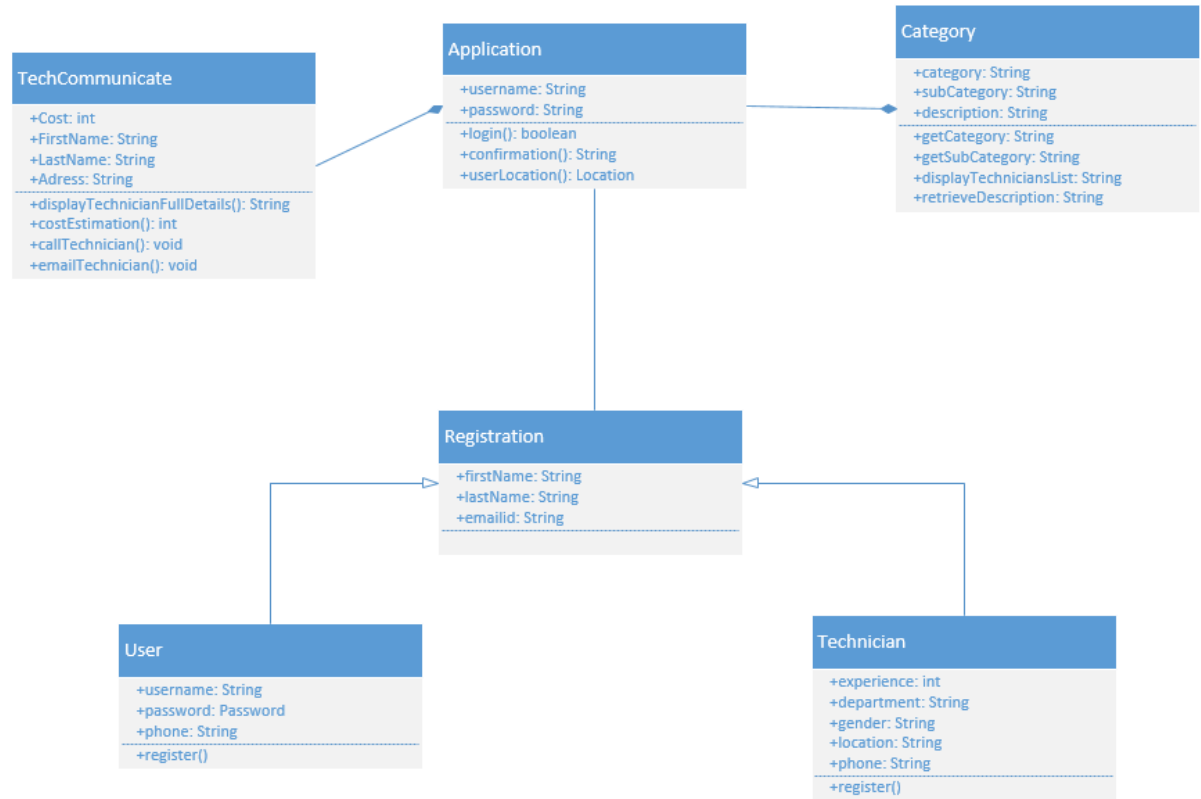
## Architecture Diagram:



## Sequence Diagram:



## Class Diagram:



## Use Cases:

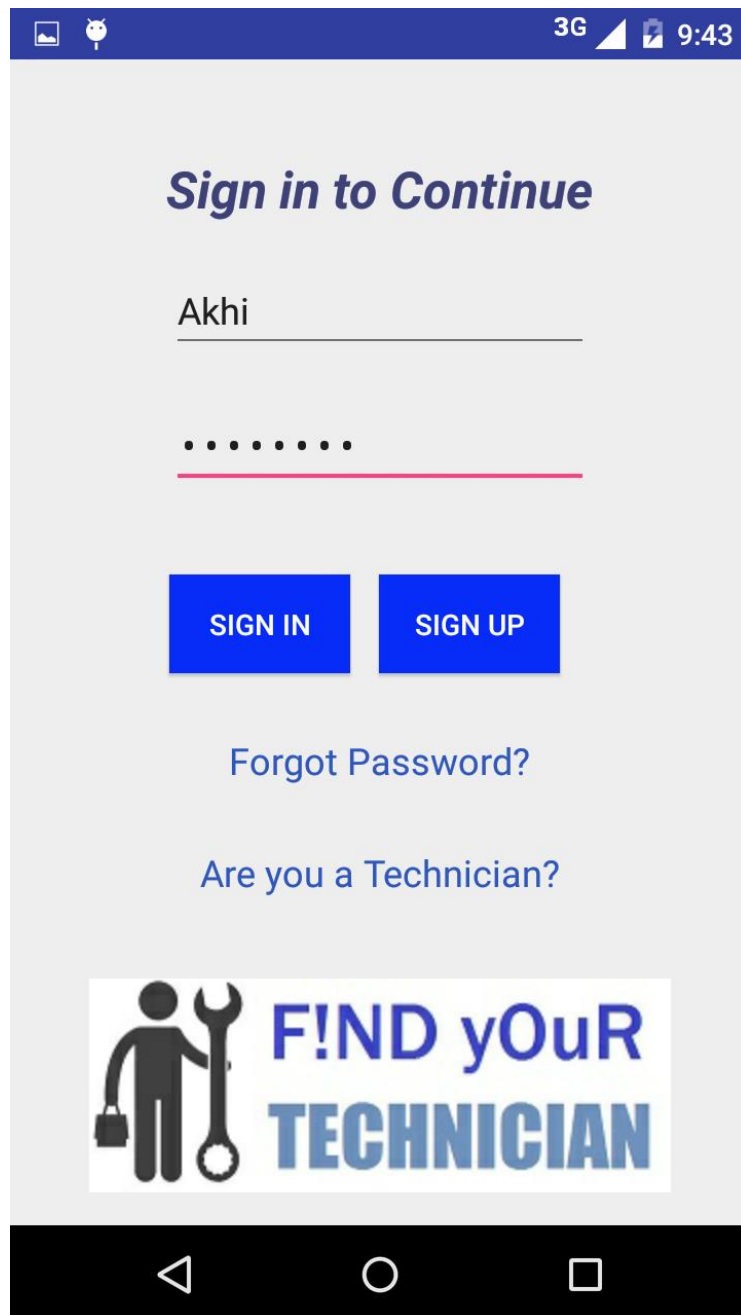
- **Technician Profile Registration:** Checks for the user input details and validates with the existing User names. If exists through errors else registration will be done successfully.
- **Home Page:** Validates user details with the details present in the data base. If the details are correct then the user will be taken to the Home page.
- **Sub Category Page:** Validates the description that is entered.

### 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:







H



9:41

## *Sign in to Continue*

Username



Username cannot be blank

Password

SIGN IN

SIGN UP

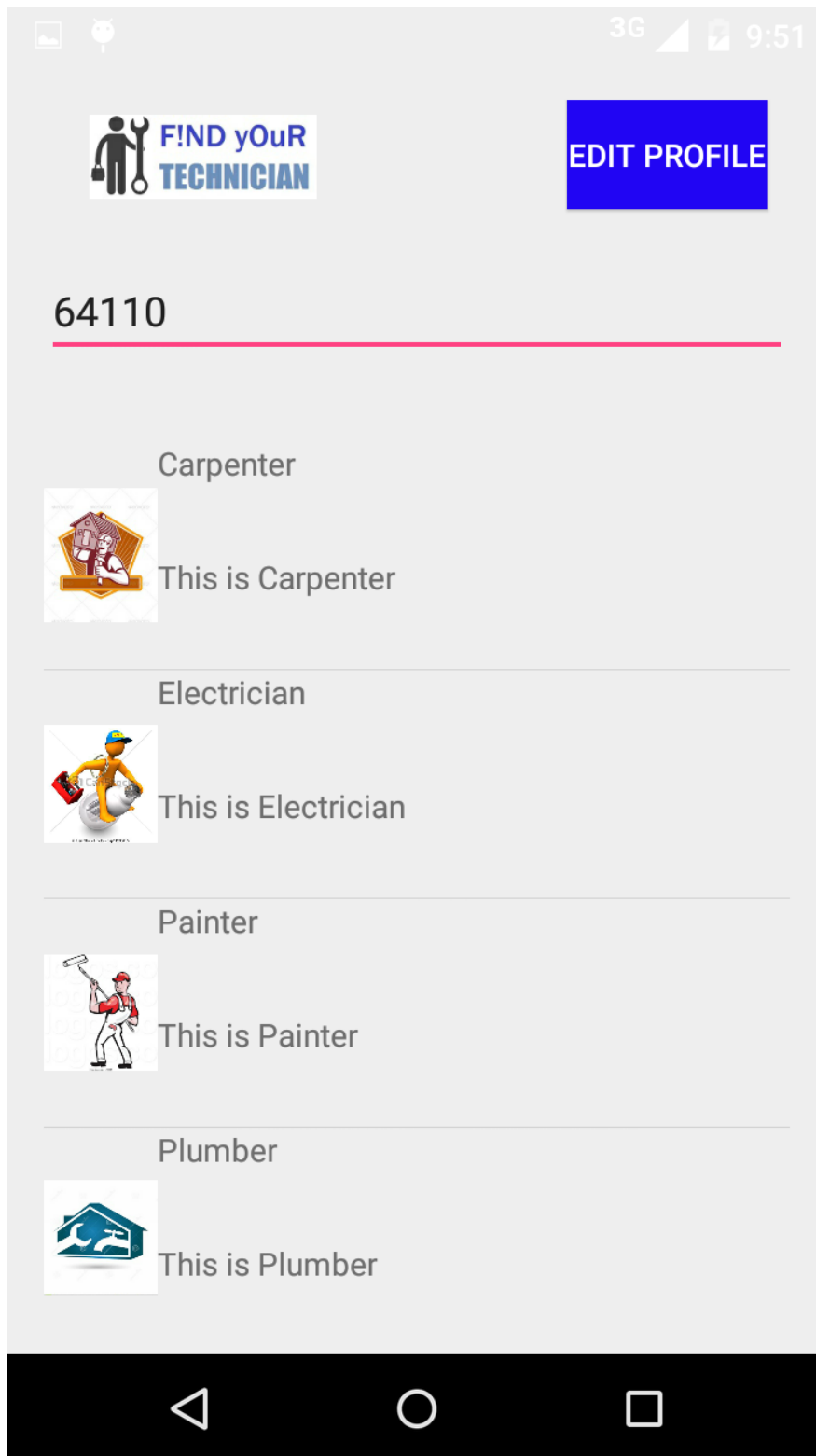
[Forgot Password?](#)

[Are you a Technician?](#)

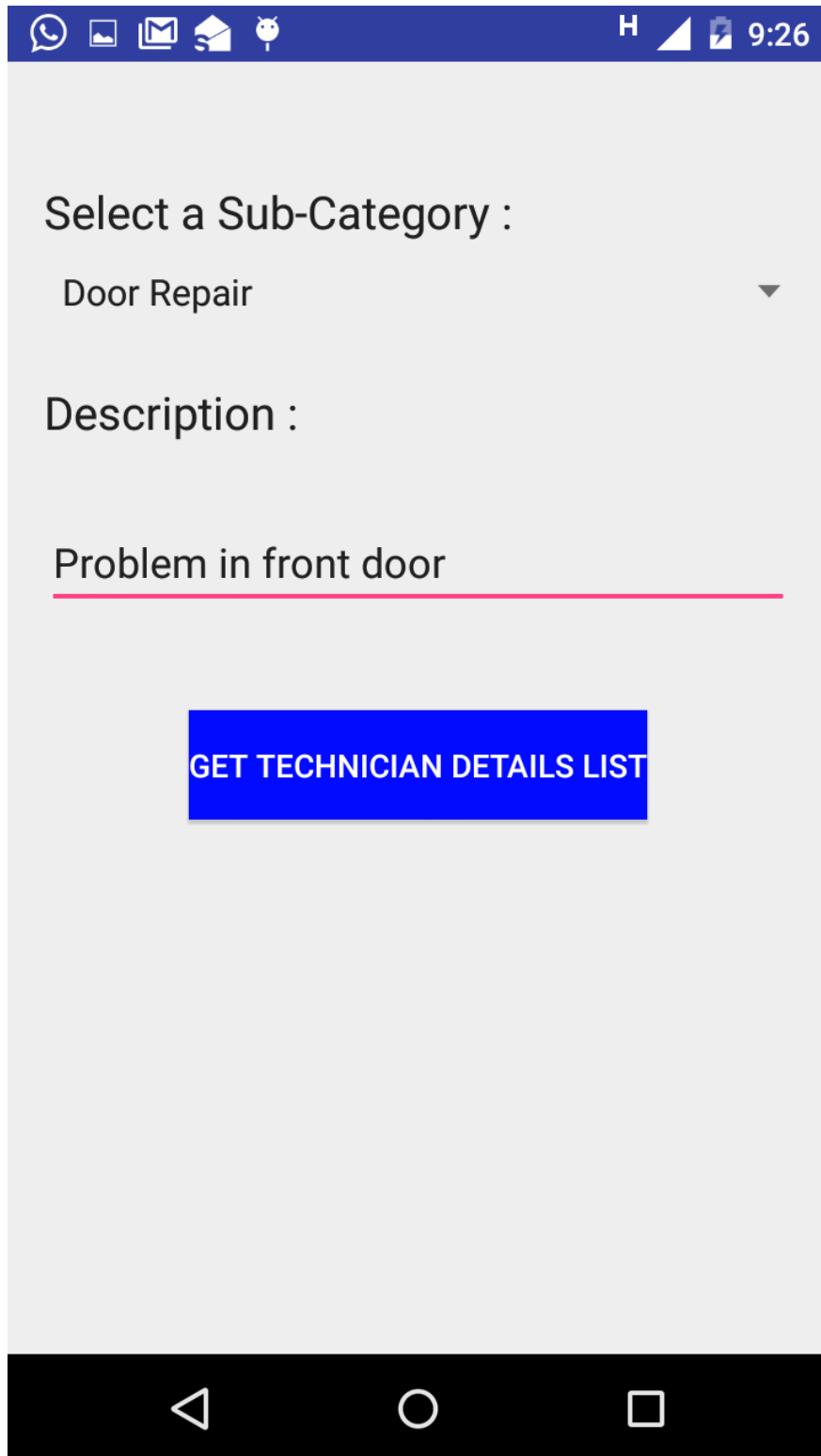


**F!ND yOuR  
TECHNICIAN**

## Home Page:



### Sub Category Page:



The screenshot shows a mobile application interface with a dark blue status bar at the top containing icons for WhatsApp, gallery, email, a folder, and an Android robot, along with the letter 'H', a signal strength indicator, a battery icon, and the time '9:26'. The main content area has a light gray background. It features a label 'Select a Sub-Category :' followed by a dropdown menu showing 'Door Repair' with a downward arrow. Below this is a label 'Description :' and a text input field containing 'Problem in front door' which is underlined in pink. A blue button with the text 'GET TECHNICIAN DETAILS LIST' is positioned below the input field. At the bottom is a black navigation bar with three white icons: a back arrow, a circle, and a square.

Select a Sub-Category :

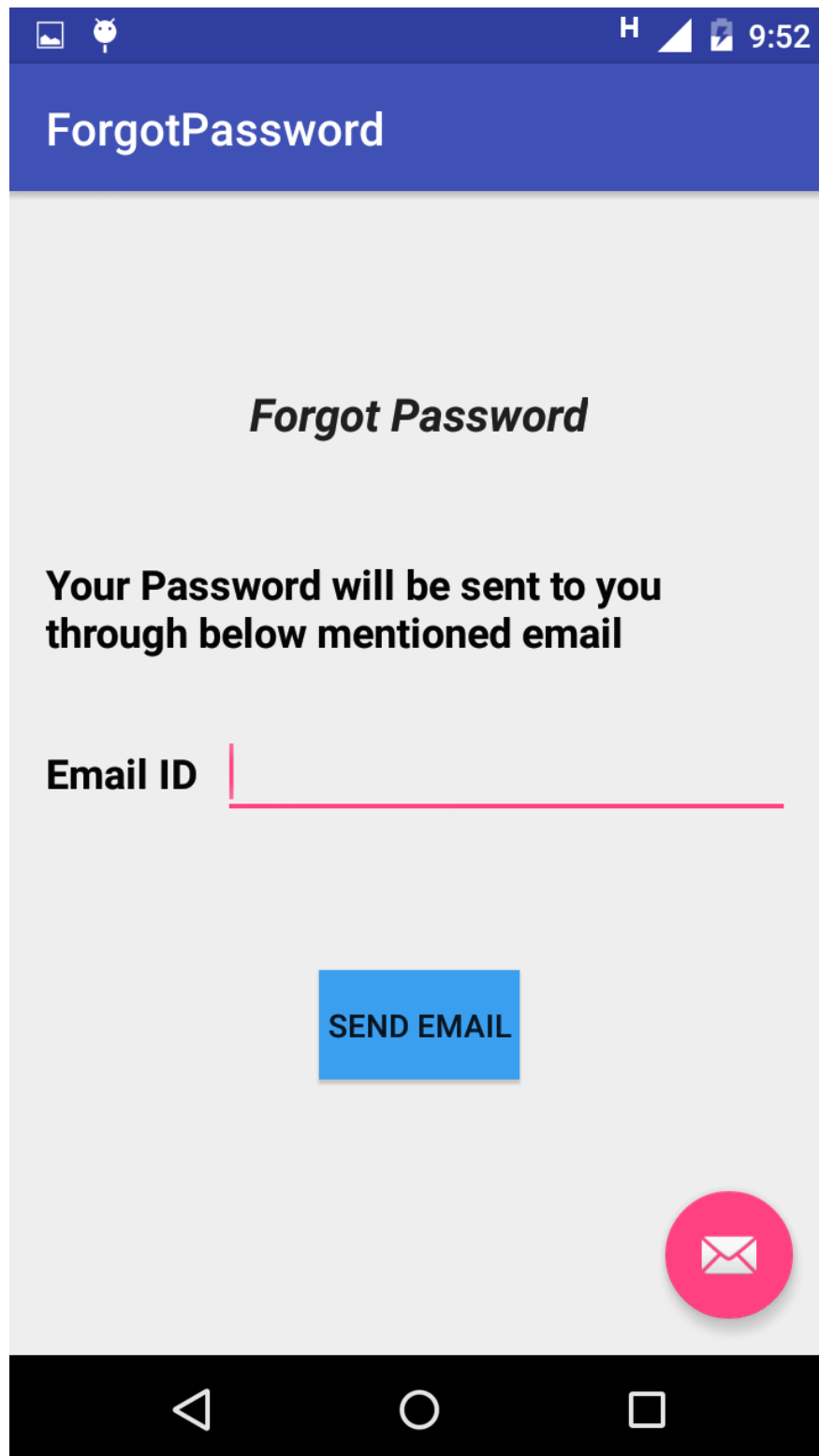
Door Repair ▼

Description :

Problem in front door

**GET TECHNICIAN DETAILS LIST**

## Forgot Password Page:




ForgotPassword

***Forgot Password***

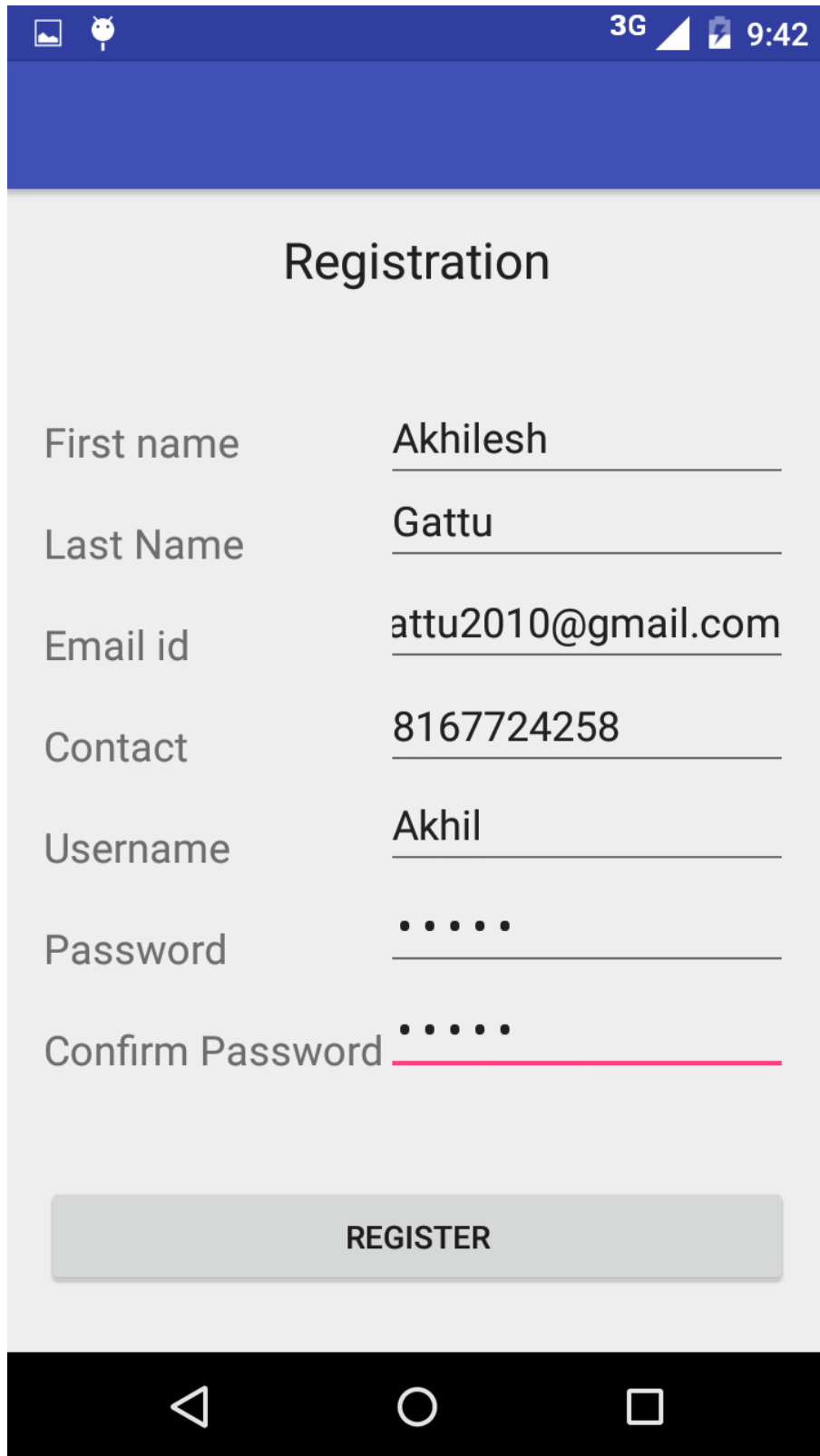
**Your Password will be sent to you  
through below mentioned email**

Email ID

**SEND EMAIL**



### User Registration Page:



A screenshot of an Android application's user registration page. The page has a blue header bar at the top. Below the header, the title "Registration" is centered. The form consists of several input fields with labels on the left and values on the right. The fields are: First name (Akhilesh), Last Name (Gattu), Email id (attu2010@gmail.com), Contact (8167724258), Username (Akhil), Password (represented by five dots), and Confirm Password (represented by five dots). A pink underline is visible under the Confirm Password field. At the bottom of the form is a grey button labeled "REGISTER". The Android status bar at the top shows 3G connectivity, a battery icon, and the time 9:42. The Android navigation bar at the bottom shows the back, home, and recent apps buttons.

|                  |                    |
|------------------|--------------------|
| First name       | Akhilesh           |
| Last Name        | Gattu              |
| Email id         | attu2010@gmail.com |
| Contact          | 8167724258         |
| Username         | Akhil              |
| Password         | .....              |
| Confirm Password | .....              |

REGISTER



H



9:42

## Registration

First name

Last Name

Email id

Contact

Username

Password

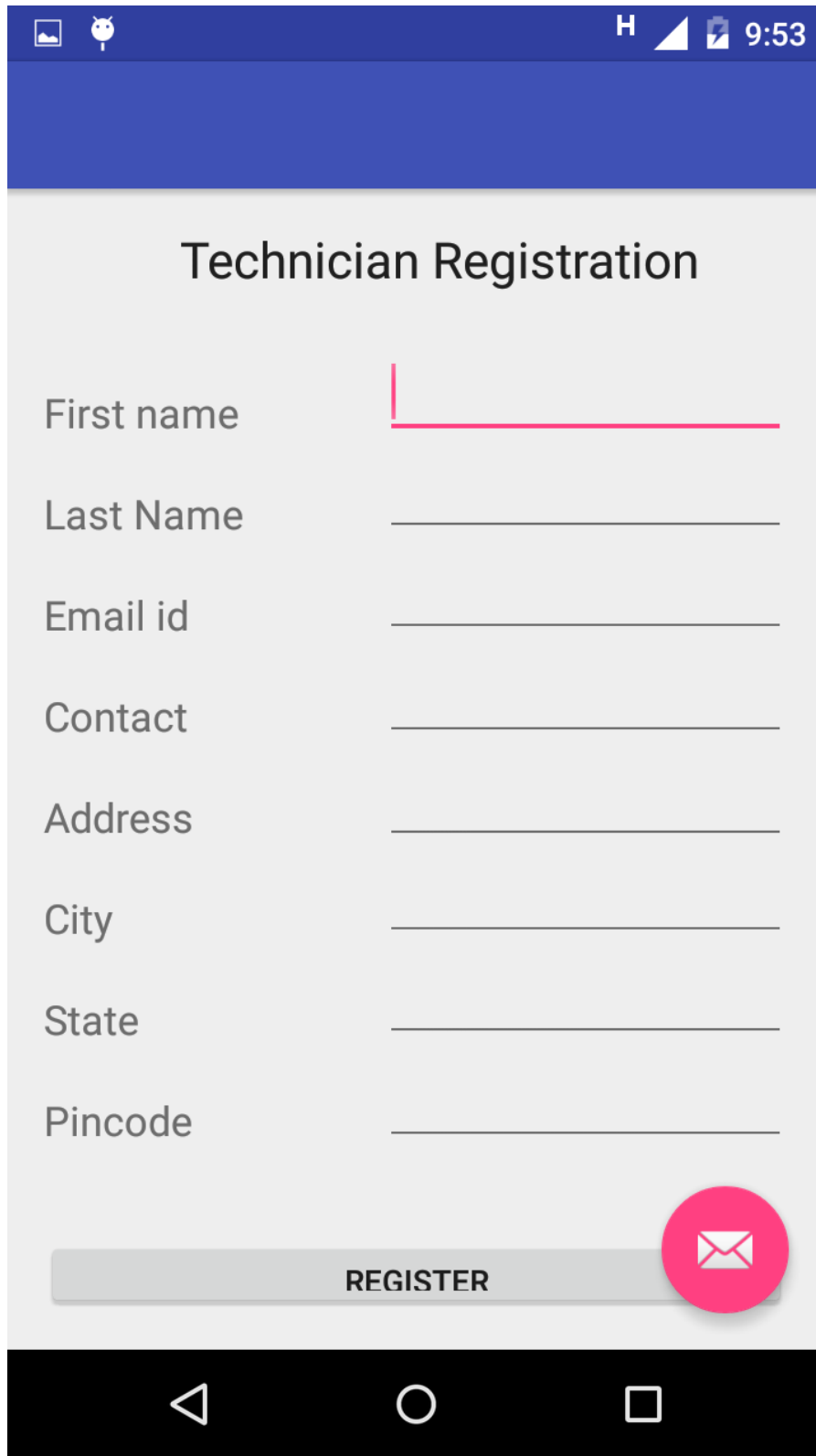
Confirm Password

REGISTER

User name is already in use

Akhil

## Technician Registration Page:



The image shows a mobile application interface for technician registration. At the top is a dark blue header bar with status icons (signal, battery, time 9:53) on the right. Below the header is a light gray registration form. The form has a title 'Technician Registration' and several input fields: 'First name' (with a pink underline), 'Last Name', 'Email id', 'Contact', 'Address', 'City', 'State', and 'Pincode'. At the bottom of the form is a gray 'REGISTER' button. To the right of the button is a pink circular icon with a white envelope symbol. The bottom of the screen features a black navigation bar with three white icons: a triangle, a circle, and a square.

First name

Last Name

Email id

Contact

Address

City

State

Pincode

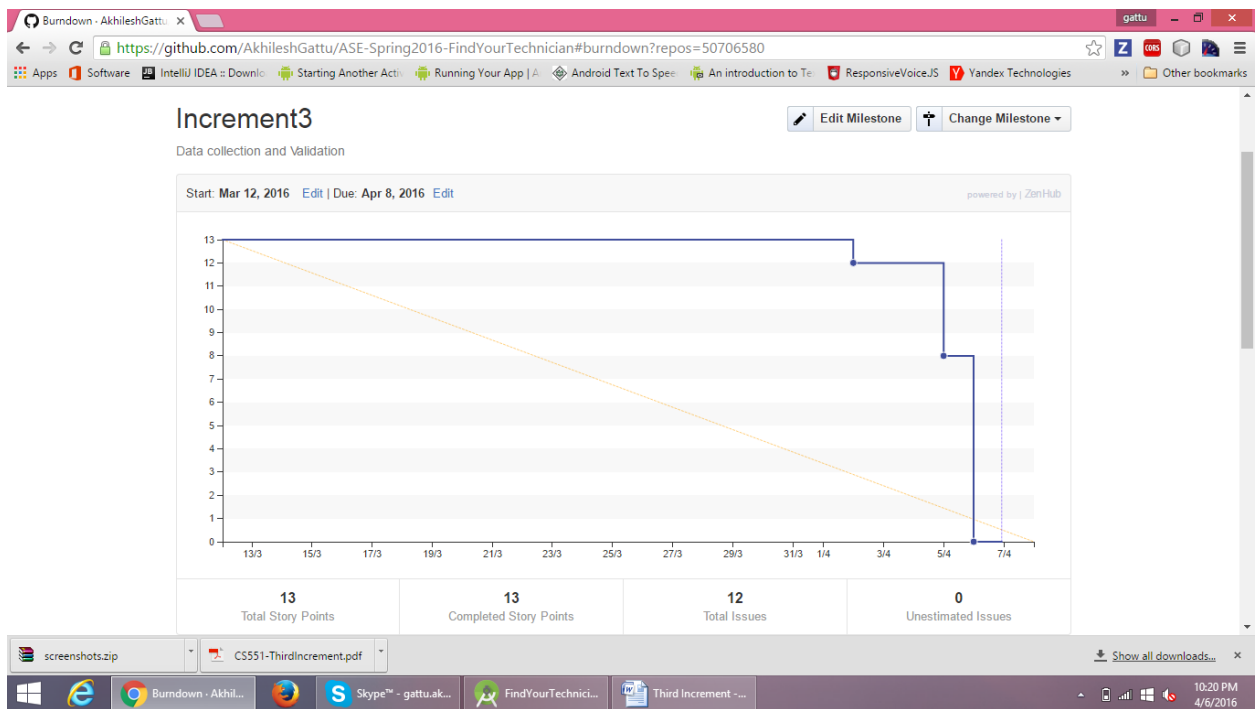
REGISTER

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

## Project Management:

- **Work completed:**

Created all the pages and navigation between the pages is also completed. Data base integration for User and Technician Registration is done. Validating the User Details while logging in also completed. Validating the user input data while User and Technician Registration is in place and working fine.





The screenshot displays a web browser window with the URL <https://github.com/AkhileshGattu/ASE-Spring2016-FindYourTechnician/milestones/Increment3#burndown>. The page shows a table of issues for 'Increment3' with columns for Repository, Issues, and Story Points.

| Repository                        | Issues   | Story Points |
|-----------------------------------|--|--------------|
| ASE-Spring2016-FindYourTechnician | #39 Validating the User details                                  | 2            |
| ASE-Spring2016-FindYourTechnician | #44 Modifying the pages with new changes                         | 1            |
| ASE-Spring2016-FindYourTechnician | #43 Merging the technician registration page                     | 1            |
| ASE-Spring2016-FindYourTechnician | #42 Parsing the data across the activities                       | 1            |
| ASE-Spring2016-FindYourTechnician | #41 Validating the Technician registration data                  | 1            |
| ASE-Spring2016-FindYourTechnician | #40 Inserting the technician registration data into the Database | 1            |
| ASE-Spring2016-FindYourTechnician | #38 Creating the Success screen                                  | 1            |
| ASE-Spring2016-FindYourTechnician | #37 Integrating the User Registration page with Database         | 1            |
| ASE-Spring2016-FindYourTechnician | #36 Collecting the technician details                            | 1            |
| ASE-Spring2016-FindYourTechnician | #35 Creating Issues and test cases for increment 3               | 1            |
| ASE-Spring2016-FindYourTechnician | #34 Documentation  | 1            |

The browser's taskbar at the bottom shows several open applications: Chrome (Burndown - AkhileshGattu), Skype (gattu.ak...), FindYourTechnician..., and a PDF viewer (Third Increment...). The system clock indicates 10:22 PM on 4/6/2016.

## Bibliography:

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