

Startup  
Hub

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# Software Requirement Specification

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**GROUP G22**

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## **Details of Project Supervisor, Co-supervisor, Advisors and Clients**

### **Proposed Project Supervisor:**

Name of the supervisor: Ms. Kulani Sumanasekara

Signature of the supervisor:



### **Proposed Project Co-Supervisor:**

Name of the co-supervisor: Ms. Gayani Rupasinghe

Signature of the co-supervisor:



# **1. Introduction**

## **1.1 Purpose**

The purpose of this document is to present a detailed description of the mobile based software platform Startup Hub. It will explain the purpose and features of the software, the interfaces of the software, what the software will do and the constraints under which it must operate. This document is intended for users of the software and also potential developers

## **1.2 Document Conventions**

This Document was created based on the IEEE template for System Requirement Specification Documents. This template is fetched at [https://web.cs.dal.ca/~hawkey/3130/srs\\_template-ieee.doc](https://web.cs.dal.ca/~hawkey/3130/srs_template-ieee.doc).

## **1.3 Intended Audience and Reading Suggestions**

- Startups, who want to extend their business by using Startup Hub.
- Clients who are willing to get services and products from startups through Startup Hub.
- Investors who are willing to find startups for their investments.
- Programmers who are interested in working on the project by further developing it or fixing existing bugs.

## **1.4 Product Scope**

### **1.4.1 A brief introduction to the project**

This is mobile and web-based development that we are going to build with the purpose of helping Startup companies to find Partners, Investors and clients. Through this mobile application, Startup Companies can expand their business with the help of Investors and can find Customers to sell their Products and Services. Startup Companies can register through the mobile application and update details about Products and Services through their profile and also, they can apply for partnership from other companies. Start Up companies can send requests to investors and also, they can remove or accept investors' subscriptions. If an Investor is interested in an area of business that he is willing to invest in, he can publish his idea so the startups can apply for those opportunities. Investors can subscribe startup companies which allows them to view more details about the company if the company owners accept the request. When a client is registering for the app they have to select whether they are individual or from an organization which gives them the investor privileges. Clients later can upgrade their profile to get the investor privileges if they like for an investment. Admin will have a web application which contains a dashboard and user management system and a notification system.

#### **1.4.2 Goal**

Our goal is to establish a well-recognized platform for Startups all around Sri Lanka, to come together to build up a strong community by selling their products in one platform and connecting with numerous other entrepreneurs to grow their businesses. The platform is also designed with the purpose of connecting investors with entrepreneurs to enhance the opportunities provided for both the parties to develop and sustain this community.

#### **1.4.3 Objectives**

- The Startups can maintain their own company profile and upload the products and services for the purpose of selling and showcasing their products and services.
- Startups can apply for the opportunities published by the investors on the platform and the investors can filter out the startups and carry out the process.
- Startups also can join with other startups or business parties in order to sustain in the industry.
- Investors can follow up their interesting startups if the owner of the startup would like to share their progress with the investors, they will have a summary report of performance of the business regularly.
- Clients will have the opportunity to buy products through the system and search products and services.
- The platform would support the startup with the client-base attracted by their own success.

### **1.5 References**

- [1] *Gephi.org*. [Online]. Available: [https://gephi.org/users/gephi\\_srs\\_document.pdf](https://gephi.org/users/gephi_srs_document.pdf). [Accessed: 24-Sep-2021].
- [2] *Shub2021* [Online]. Available: <https://github.com/Shub2021> [Accessed: 24-Sep-2021].

## **2. Overall Description**

### **2.1 Product Perspective**

Startup Hub was developed for startups, investors and clients who are interested in growing their businesses, investing on businesses and buying products and services. Startup Hub contains a mobile application for clients and investors, a mobile based application for startups and a web-based application for system admins. The mobile applications support both Android and iOS environments and the web application supports Windows, Mac OS and Linux.

### **2.2 Product Functions**

#### **2.2.1. Startup User**

- Profile: users can update their user profiles and reset passwords.
- Members: admin users can create member accounts for their members / delete member accounts.
- Investments: users can view investment plans / send requests to the investors / accept requests of investors / view agreements
- Business profile: users can update the business profile of the startup / set location of the startup / pay annual fee.

#### **2.2.2. Product Based Startup User**

- Products: users can publish the products / update products / delete products.
- Orders: users can start / finish production of received orders.
- Partners: users can send requests to other startups / accept requests received by startups.

#### **2.2.3. Service based Startup User**

- Services: users can publish the services / update services / delete services.
- Packages: users can add packages to a service / update packages / delete packages.
- Jobs: users can start jobs by adding tasks / complete jobs by finishing tasks.

#### **2.2.3. Clients**

- Products: users can search products / filter products / buy products
- Services: users can search services / filter services / request services
- Orders: users can track orders / report startups
- Jobs: users can track jobs / report startups
- Wishlist: users can save products / services by adding to the wish list
- Profile: users can reset passwords

#### **2.2.4. Investors**

- Investment Plan: users can publish their investment plan / update the plan
- Request: users can send request to the startups / accept received requests by startups
- Subscribe: users can subscribe startups to see more details of the startup
- Agreement: users can fill the agreement once the investment is done
- Profile: users can update their profile

#### **2.2.5. System Admin**

- Dashboard: Usage of system users / Monthly Income / Client Complaints / Annual fee Pending List
- User Lists: Startup users / Investors users / client users
- Startup Profile: General Details / Annual fee Details / Client complains / Admin Warning / Startup Members hip payments/ Startup Ban

### **2.3 User Classes and Characteristics**

- Product based and service-based Startup users who are willing to publish their products and services and grow their businesses.
- Clients who are willing to buy products and services from startups.
- Investors who are willing to find startups for their investments.
- Administrators who are managing the overall system.

### **2.4 Operating Environment**

#### **2.4.1. Startup Hub Client App**

- Android
- iOS

#### **2.4.2. Startup Hub Startup App**

- Android
- iOS

#### **2.4.3. Admin Web Application**

- Windows
- Linux
- Mac OS

## **2.5 Design and Implementation Constraints**

- Implementation of the database should be using a centralized database management system.
- During the design process, the database structure should be as complete as possible, but there should be space for adjustment without a major redesign later on.
- The system shall use the MongoDB database.
- The system must respond to all applicable accessibility, web and mobile designs, and security regulations.
- During the Design phase, a testing strategy will be documented. User roles, modules or use cases, essential functions, and expected outcomes will all be part of the testing strategy.

## **2.6 User Documentation**

There are quick guides available for the system,

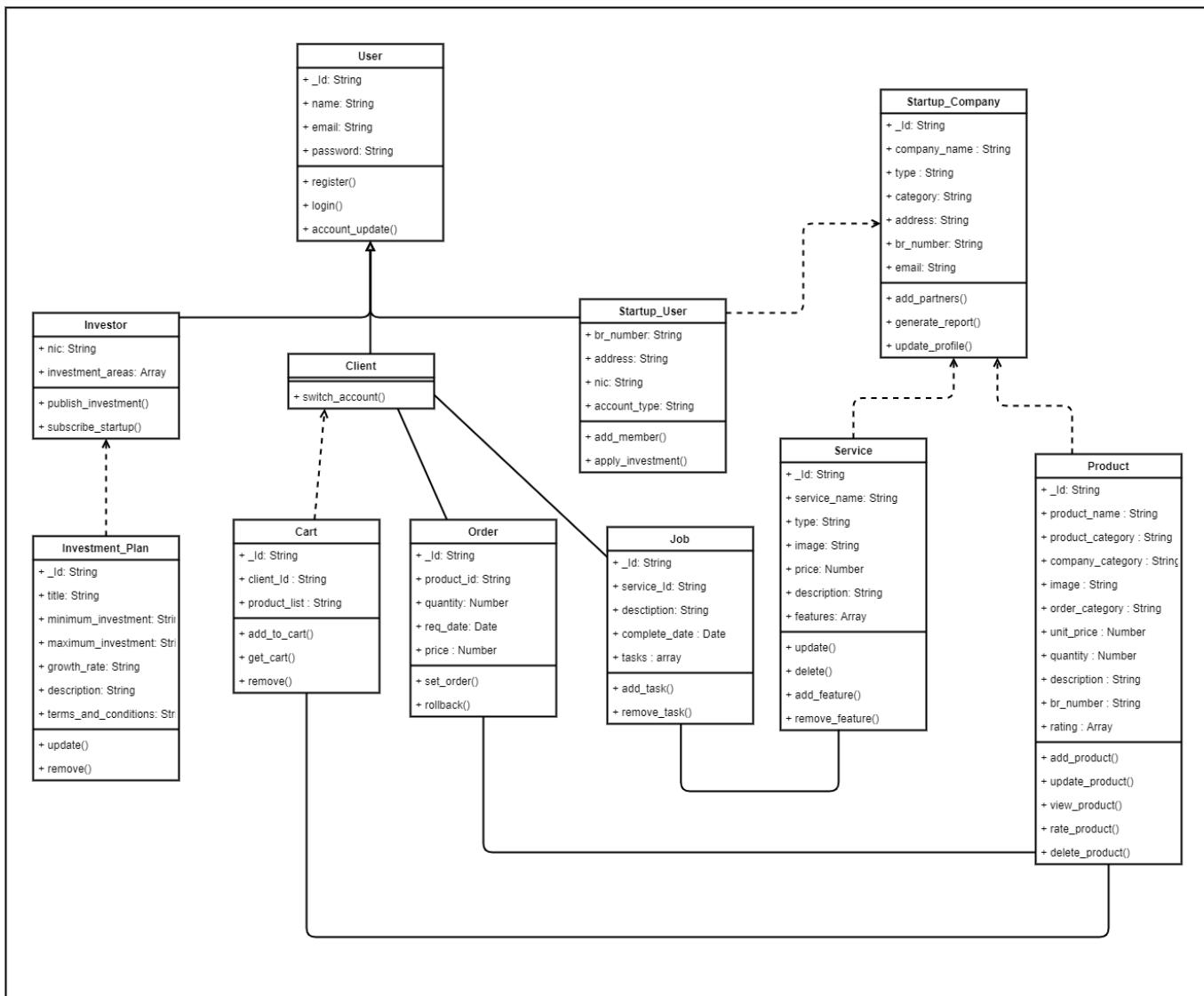
- User Manual -
- Admin Manual with deployment instruction -

## **2.7 Limitations**

- After purchasing a product, the client should collect the product from the startup company unless they provide a delivery method. System won't support the deliveries.
- Investors and startups can join through the platform but the system won't handle the legal aspect of their contract.
  - In the process of investing, the company and the Investor legally sign a contract including their terms and conditions. In our system, we just fulfil the requirement of connecting them through a one platform
- The system won't manage the contract partnership
  - After getting a contracted system won't manage the contract partnership and its terms and conditions.
- The system won't handle the Inventory of the startups.
  - In the case of a product near to its expiry date, the system won't manage the situation by suggesting those items first for the clients to sell.
  - We only focus on preorders, so we can skip the inventory management.

### 3. External Interface Requirements

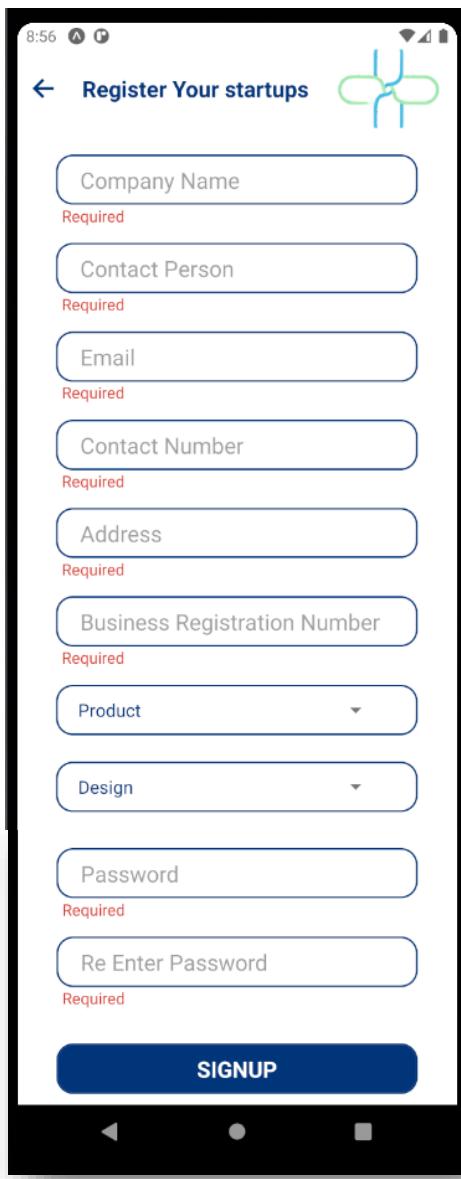
#### 3.1 Class Diagram



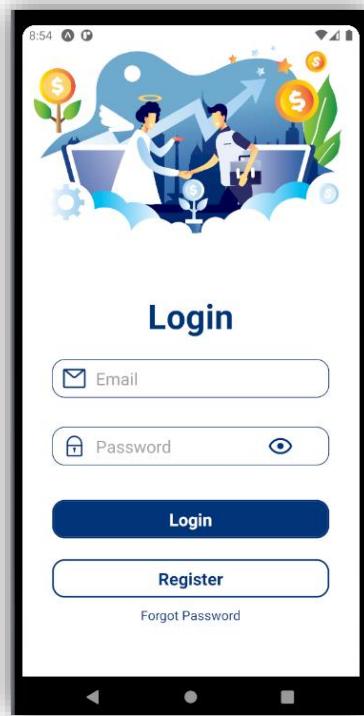
## 3.2 User Interfaces

### 1. Startup User (Product and Service)

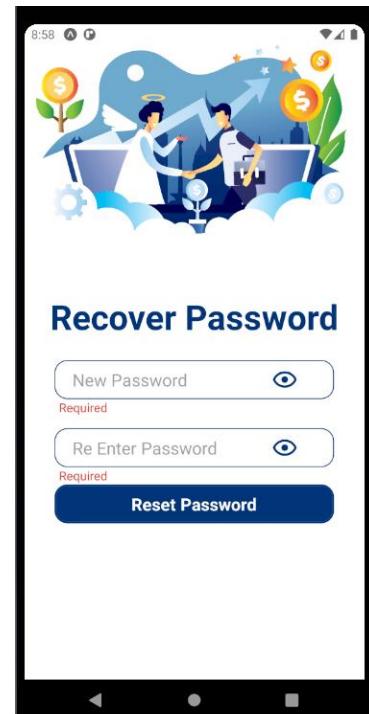
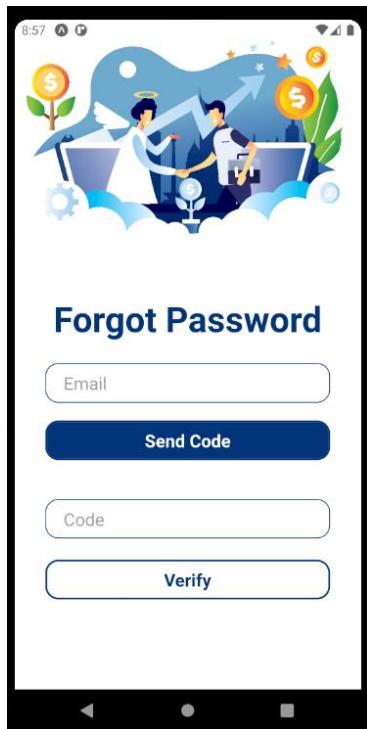
#### ➤ Registration Page



➤ **Login**

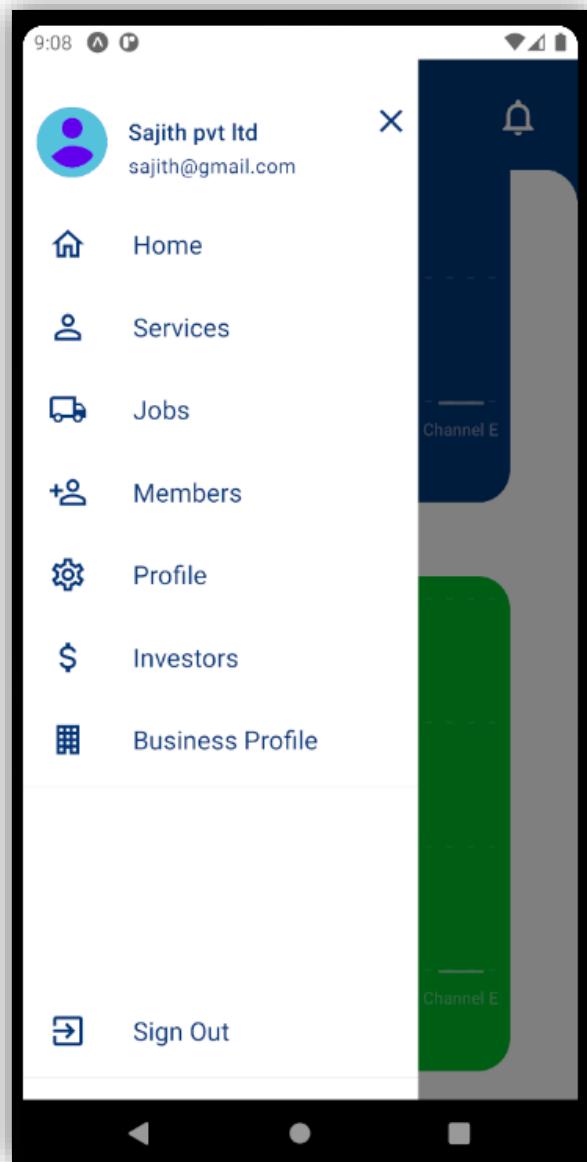


➤ **Reset Password**

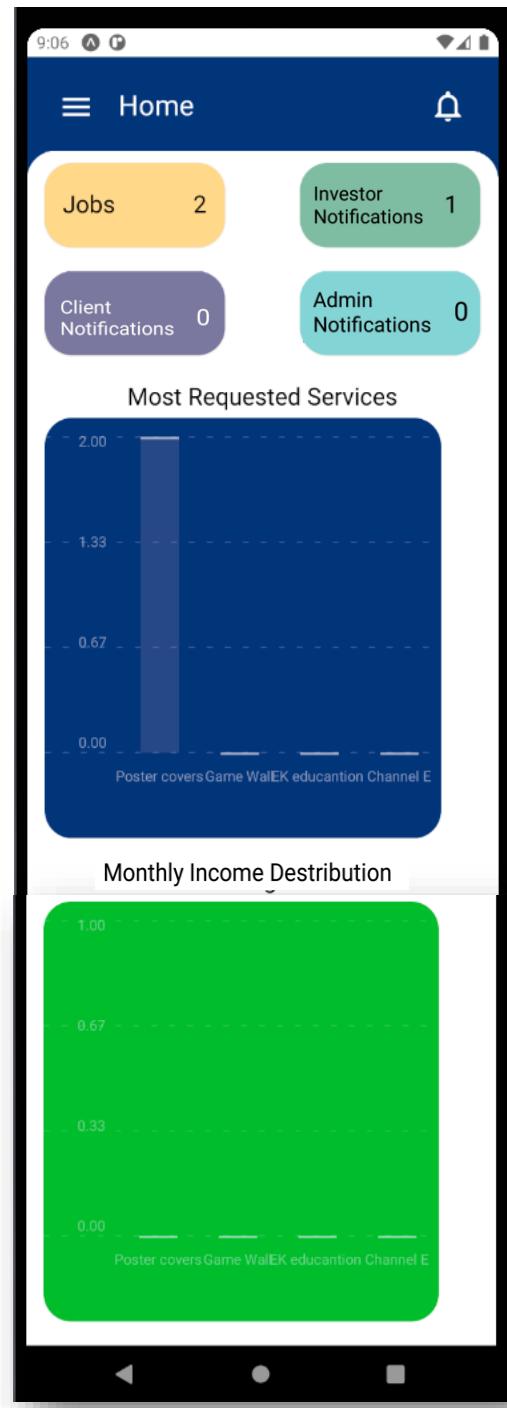


❖ **Startup Service User**

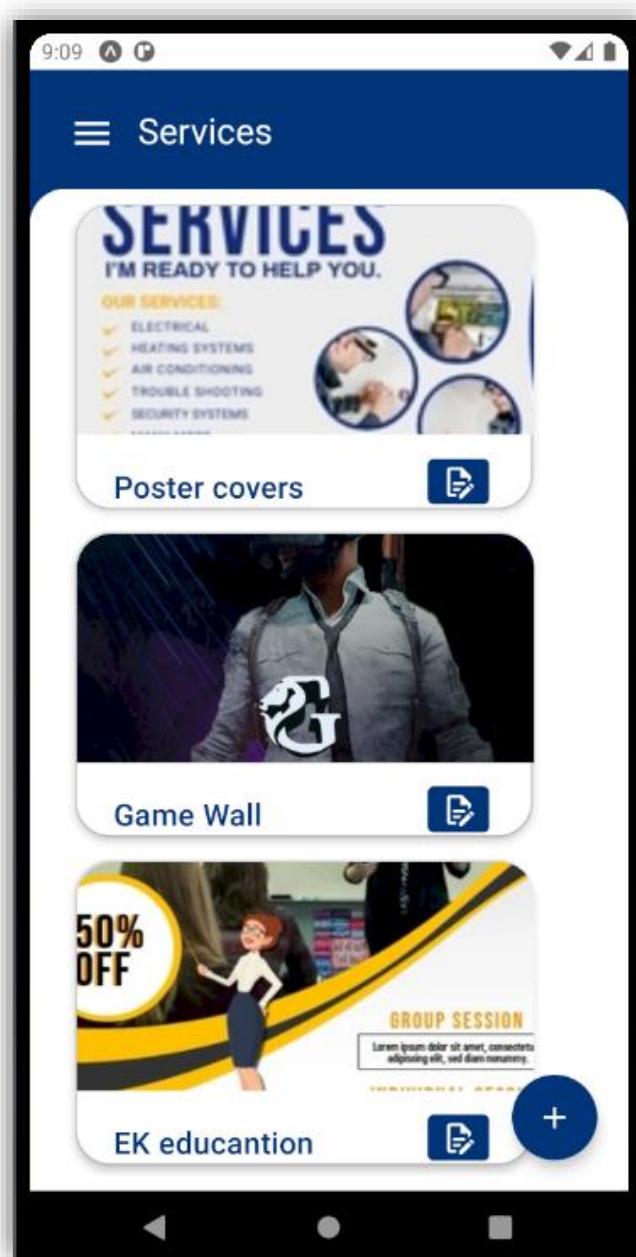
➤ **Service User Navigation panel**



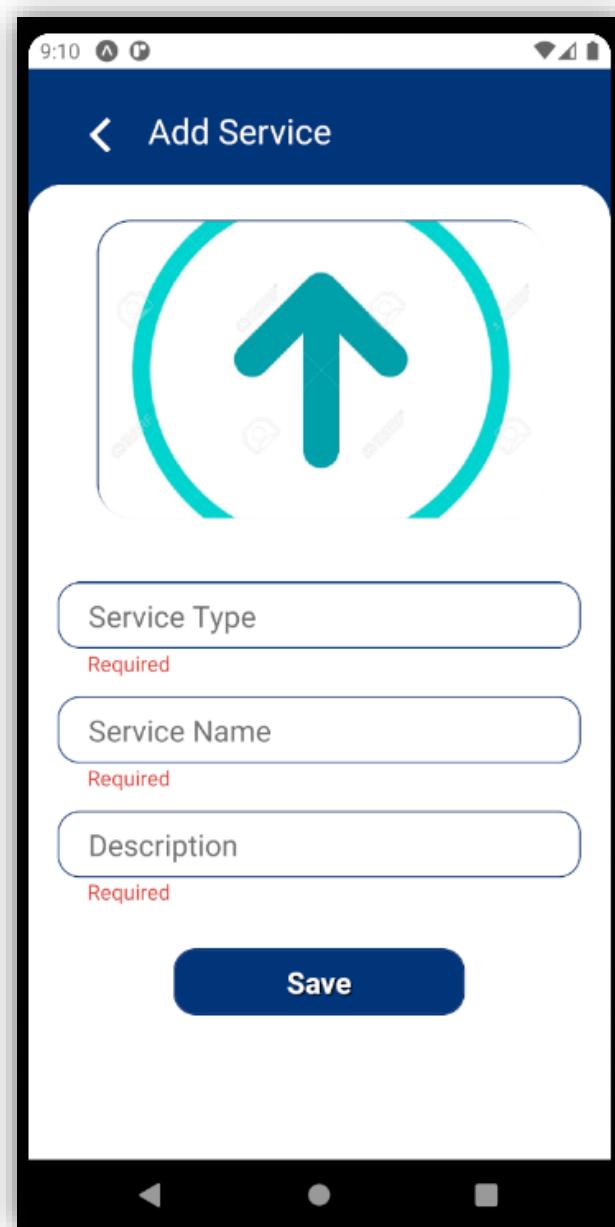
➤ Startup Service Home



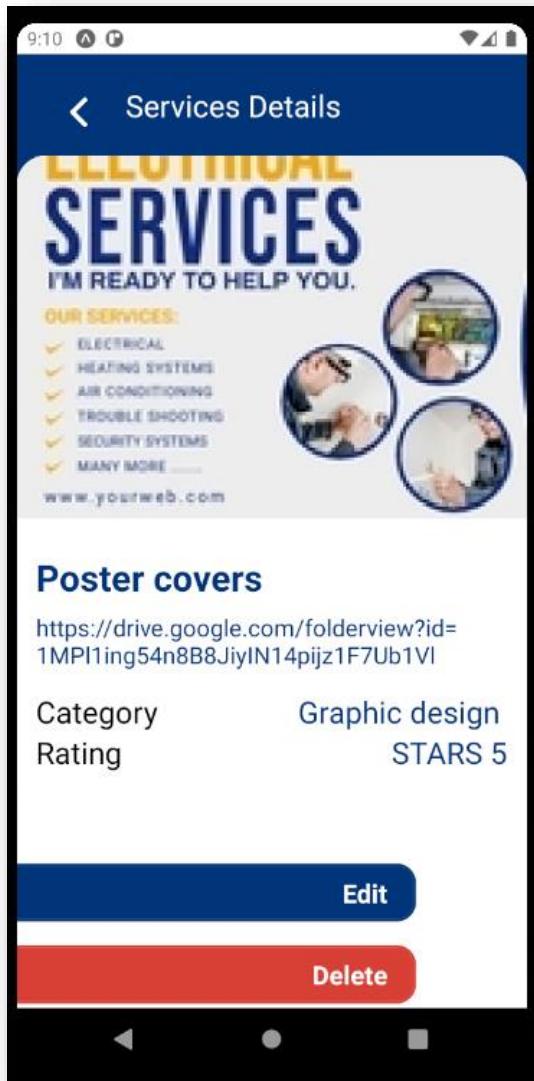
## Services Page



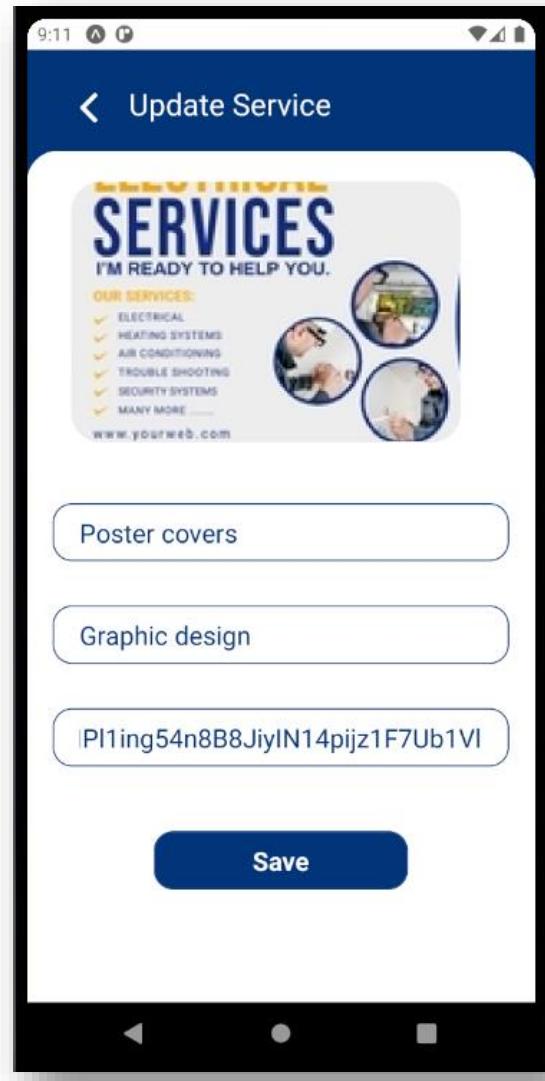
### Add Services



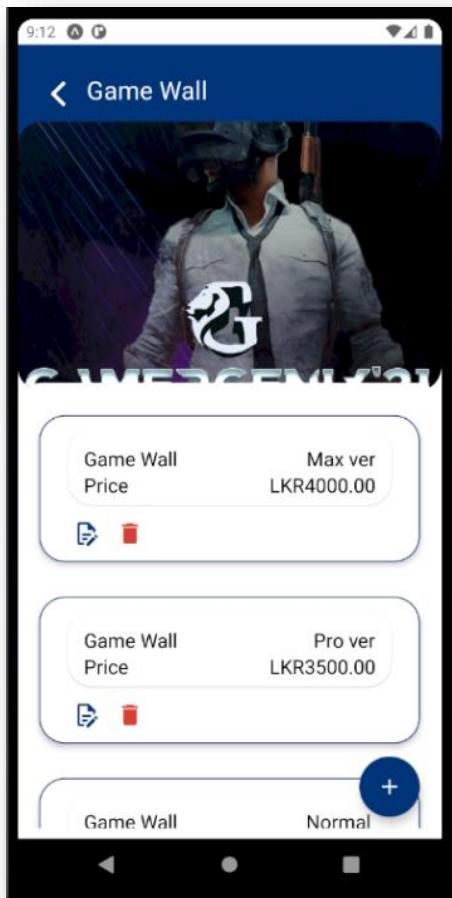
### Edit Service Page



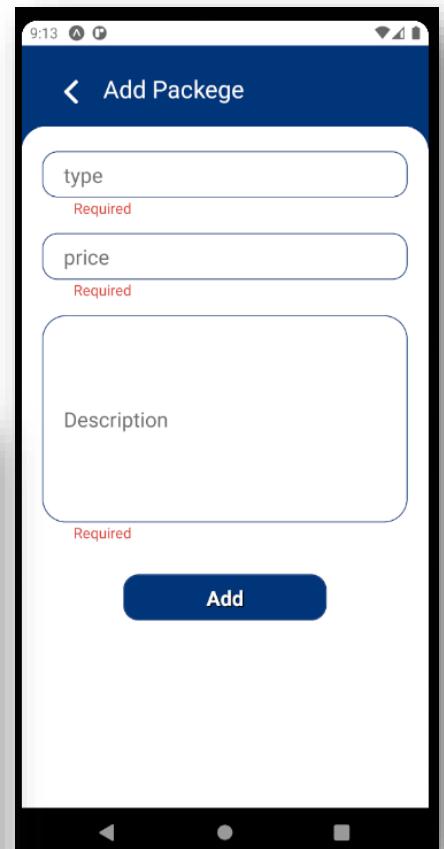
### Update Service Page



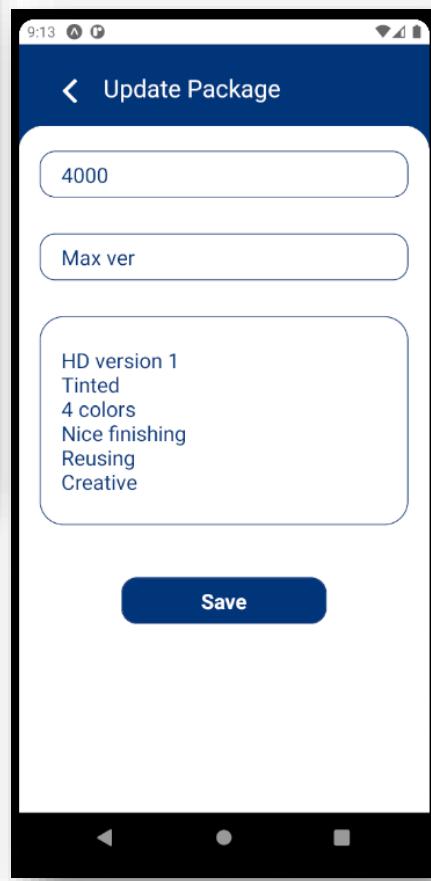
### Service Package Page



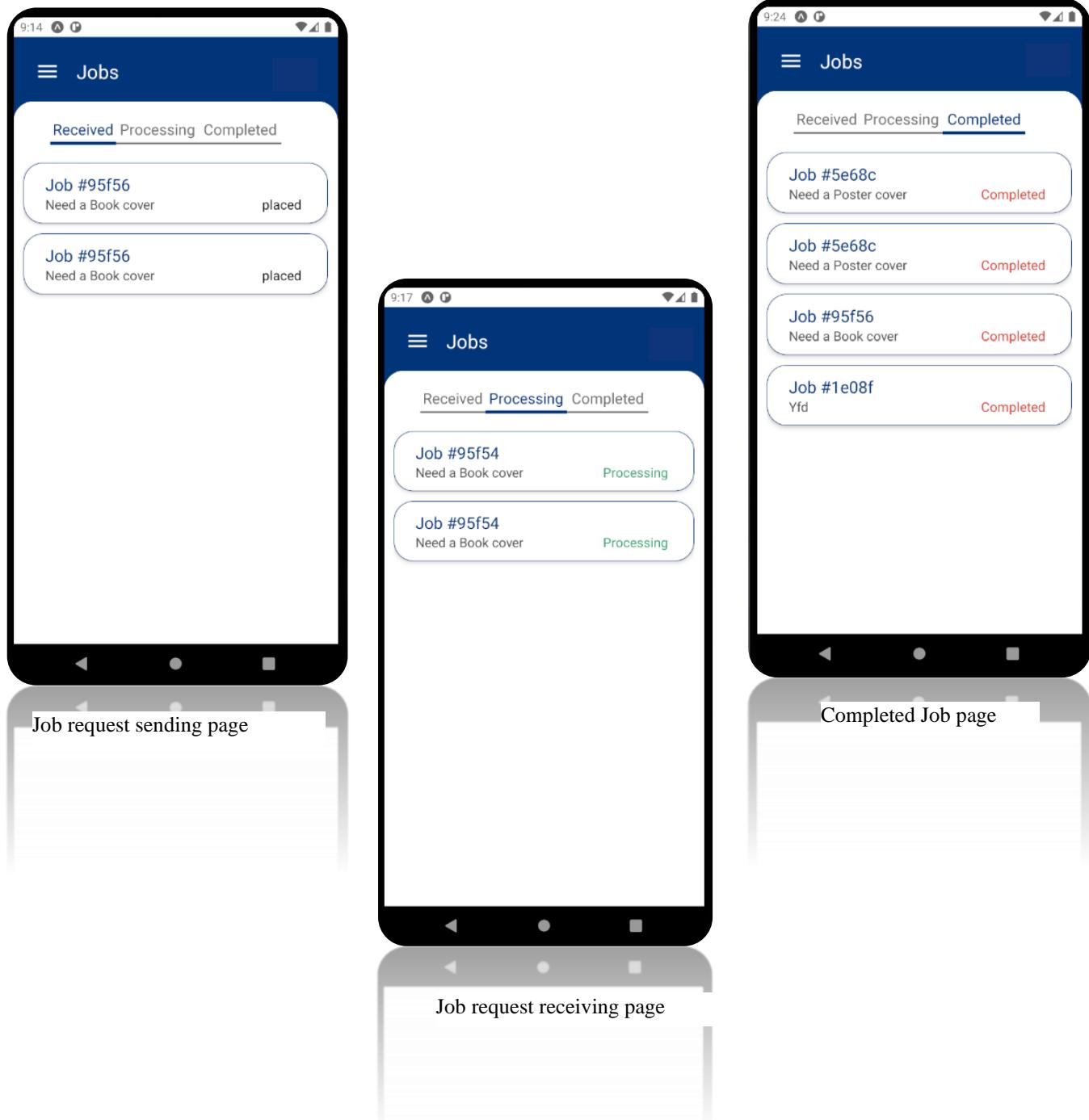
### Add Package Page



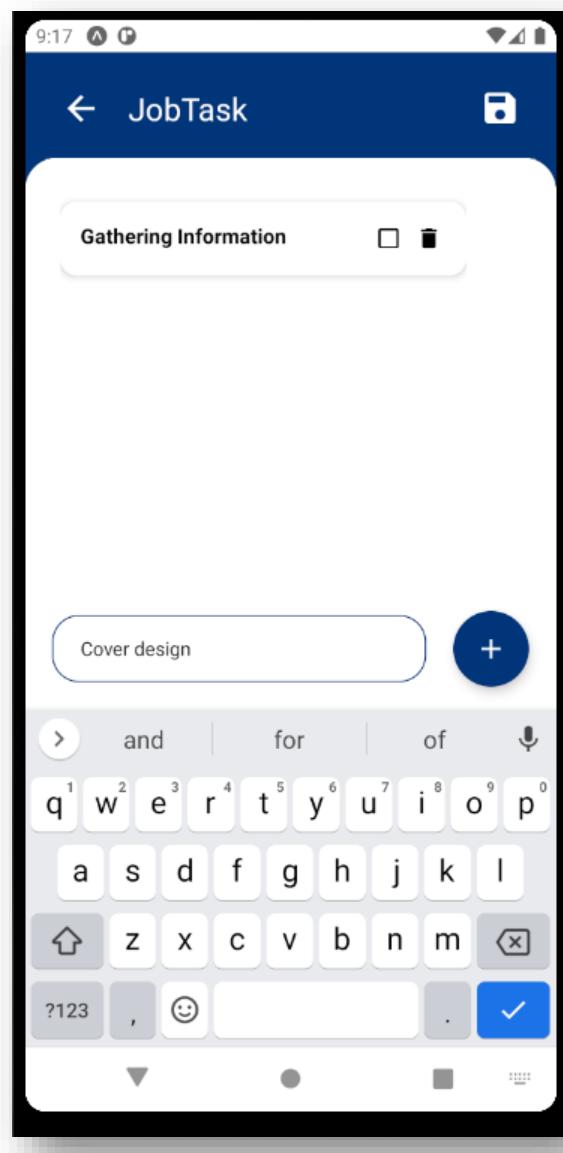
### Update Package Page



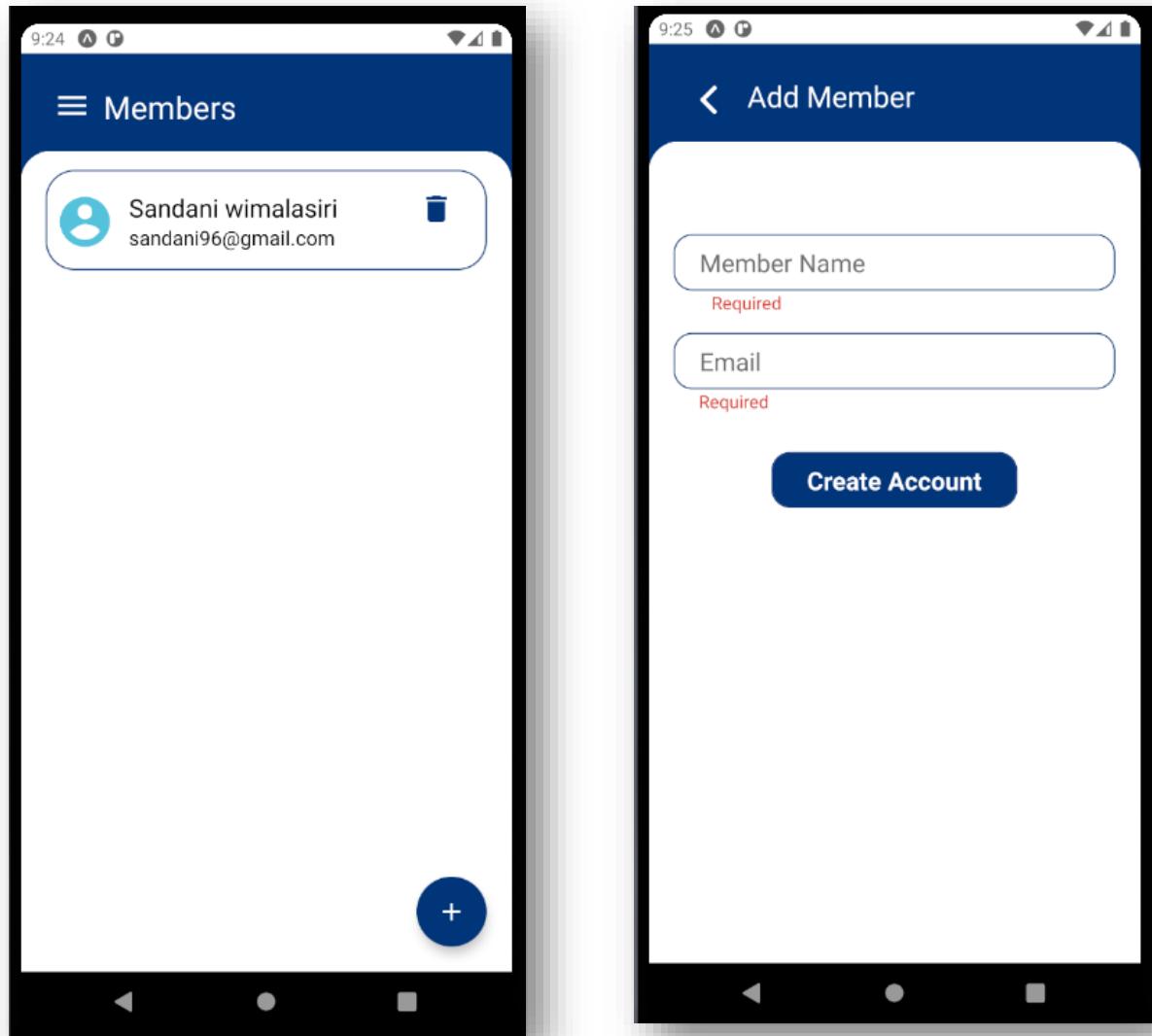
## Jobs Page



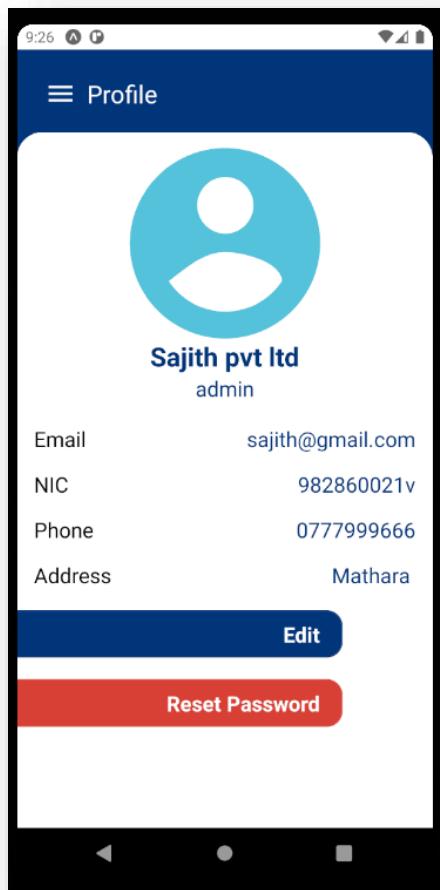
## **Adding Task Page**



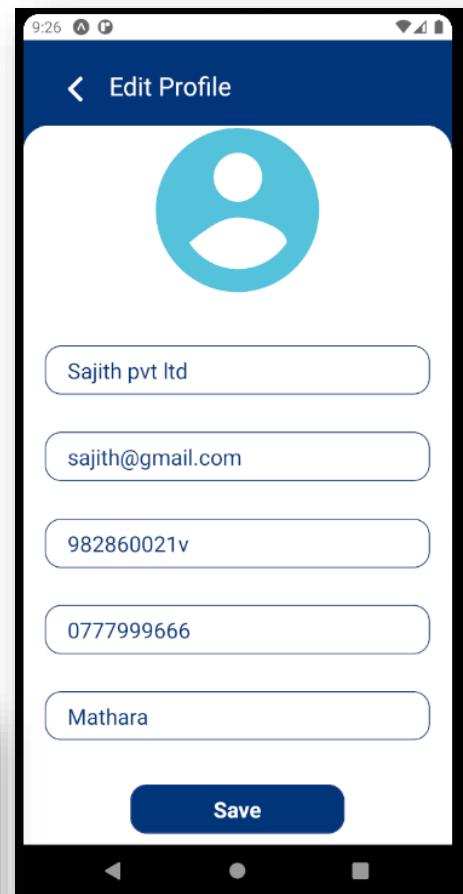
### Members adding Page



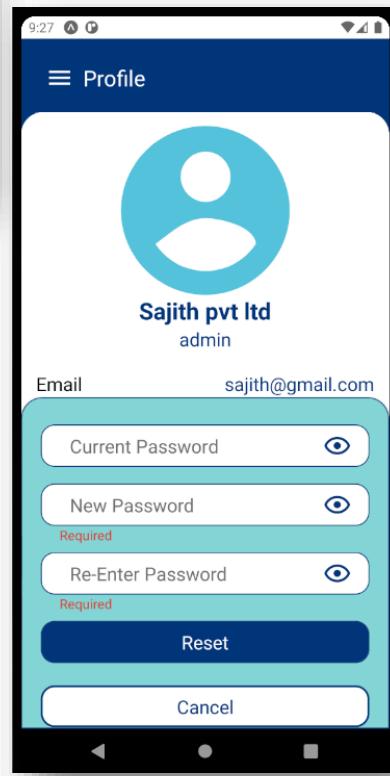
**Profile Page**



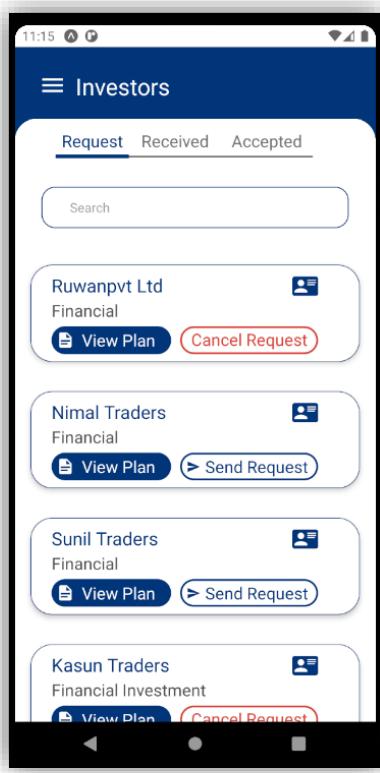
**Edit Profile**



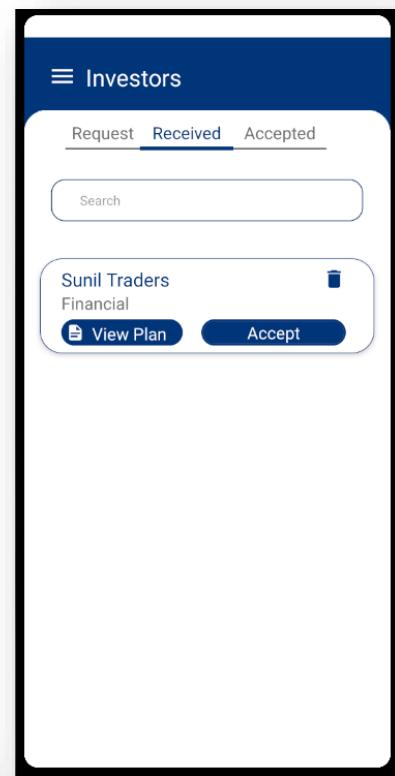
**password page**



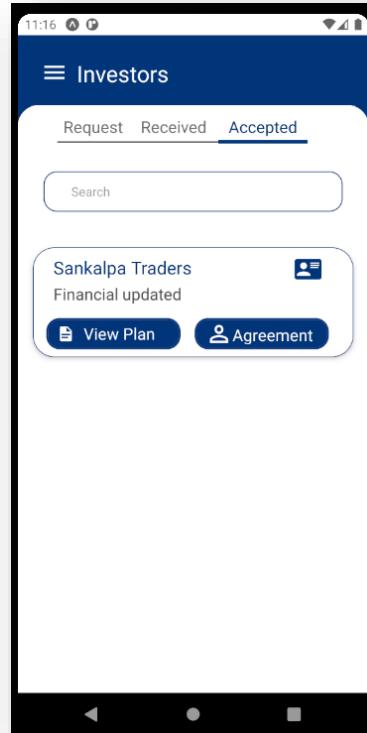
**Investors Page (send request to investors)**



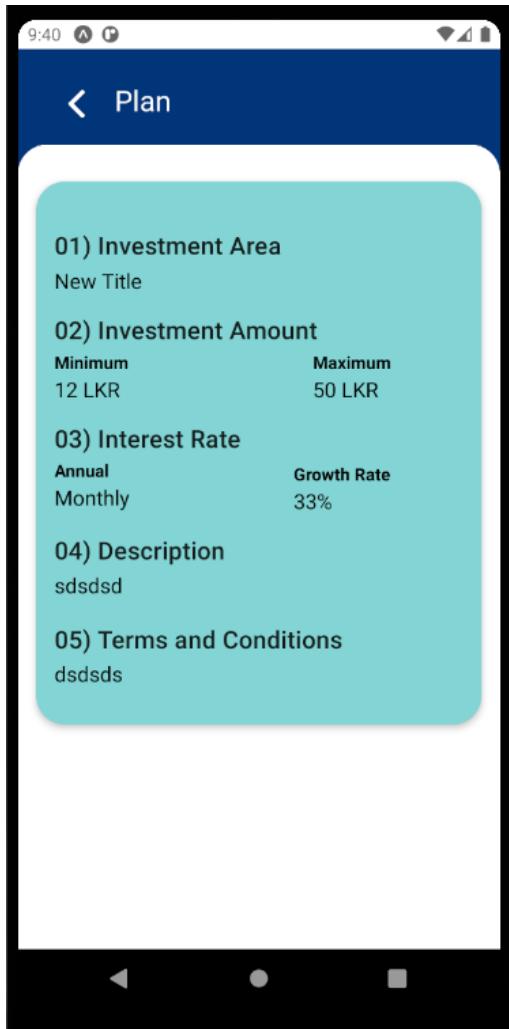
**Investor Page (Get request from Investors)**



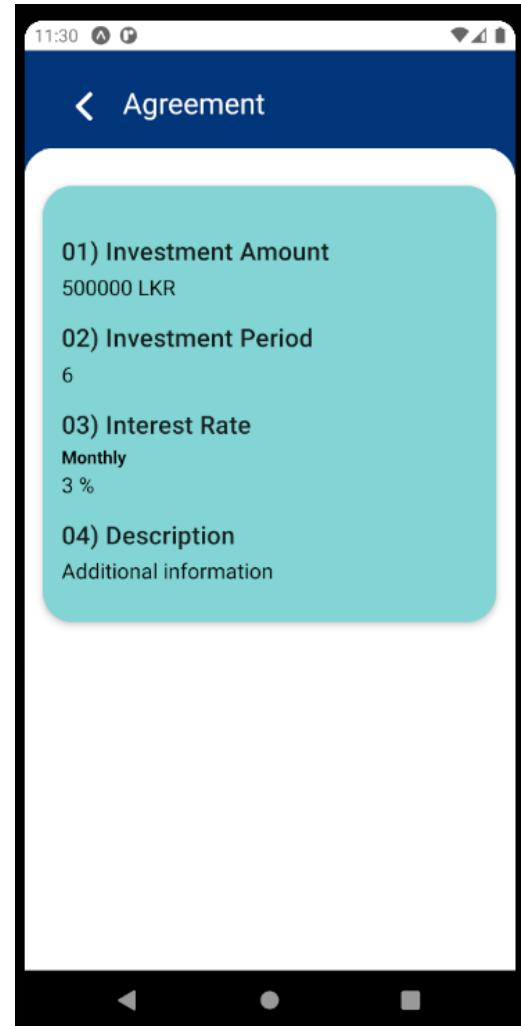
**Investor Page**



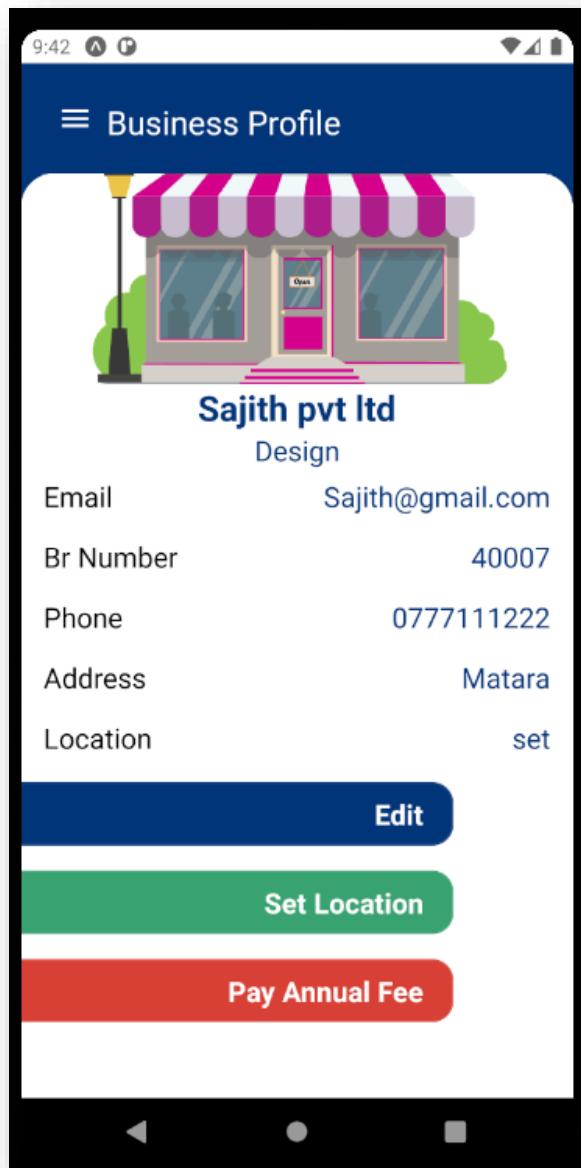
**Investment plan Page**



**Investment plan Page**



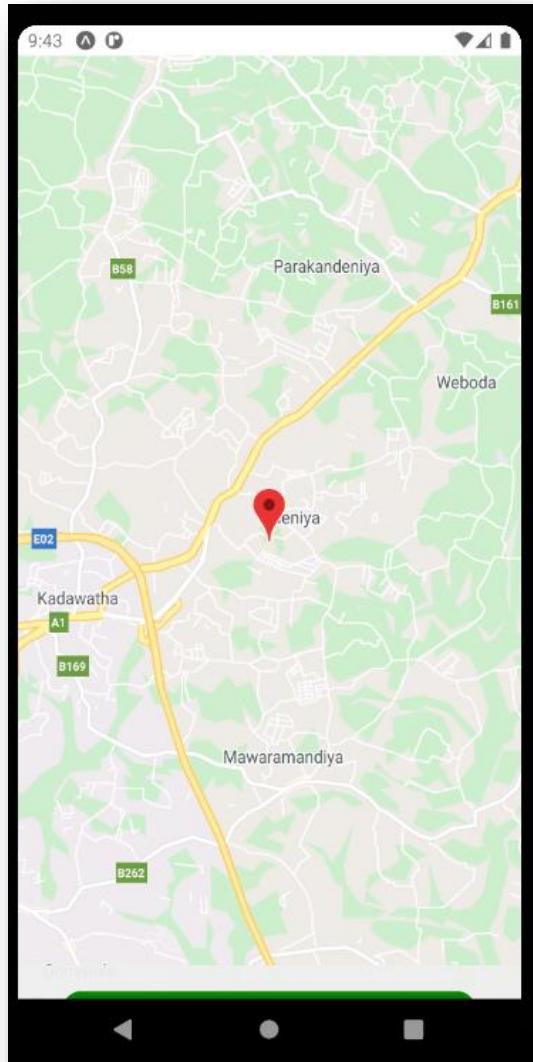
**Business Profile Page**



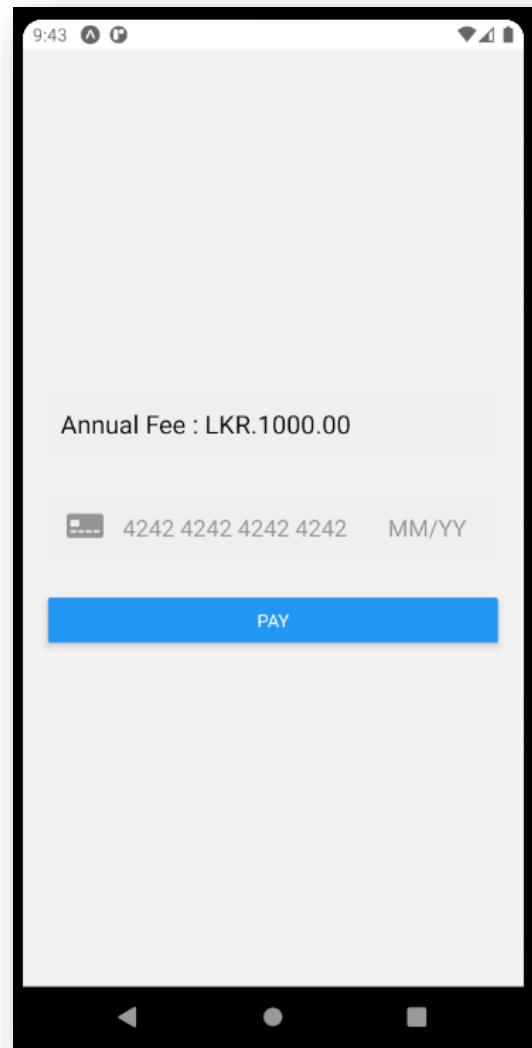
**Update business profile**



**Set location Page**

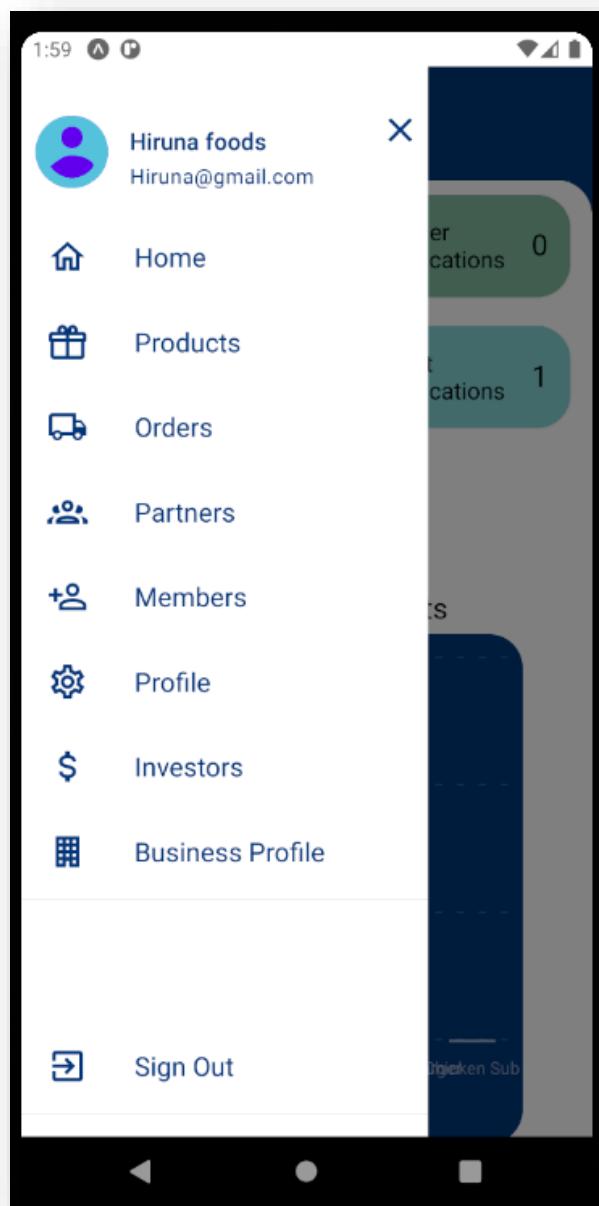


**Pay annual Fee**

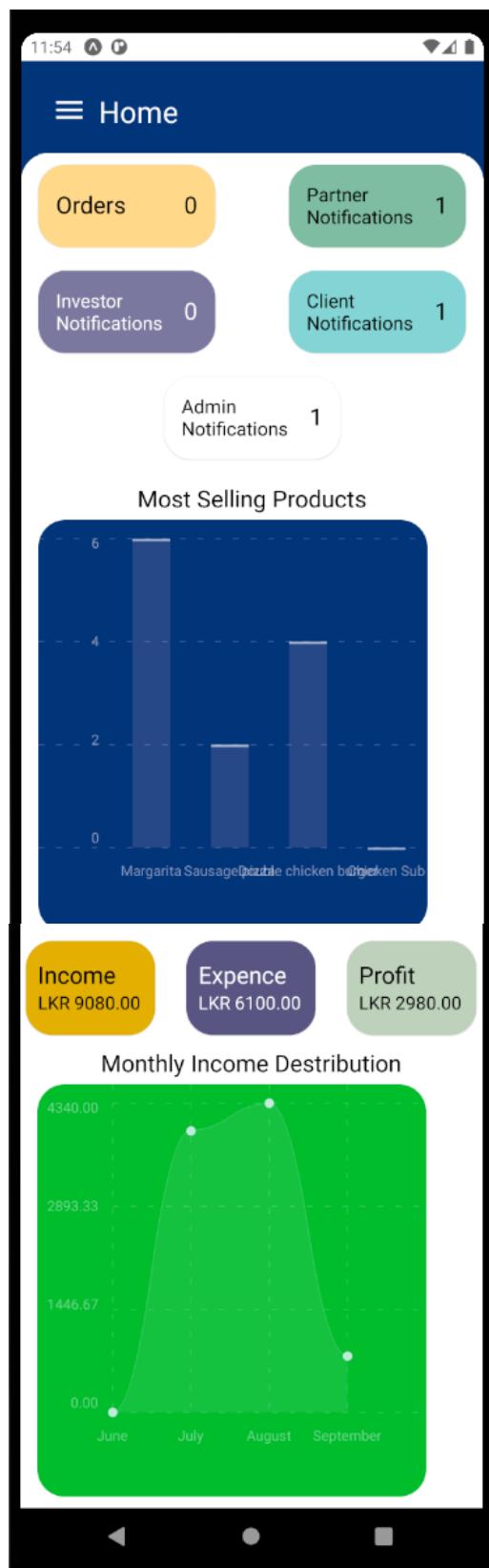


❖ Startup Product User

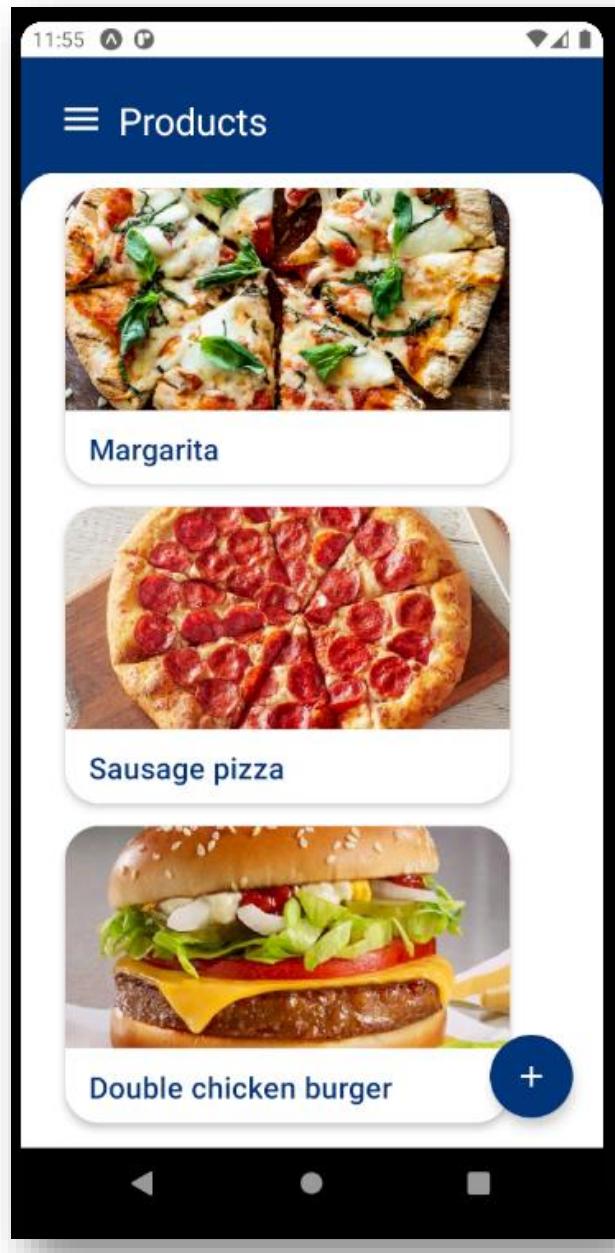
Product User Navigation Panel



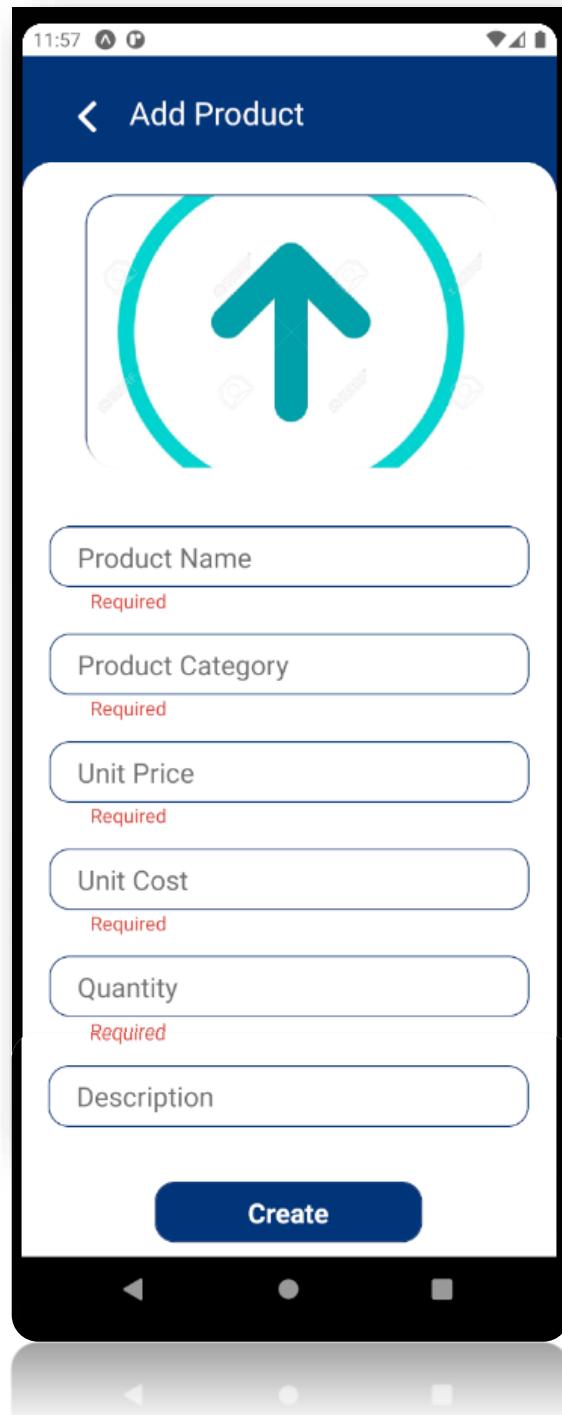
## Startup Product Home



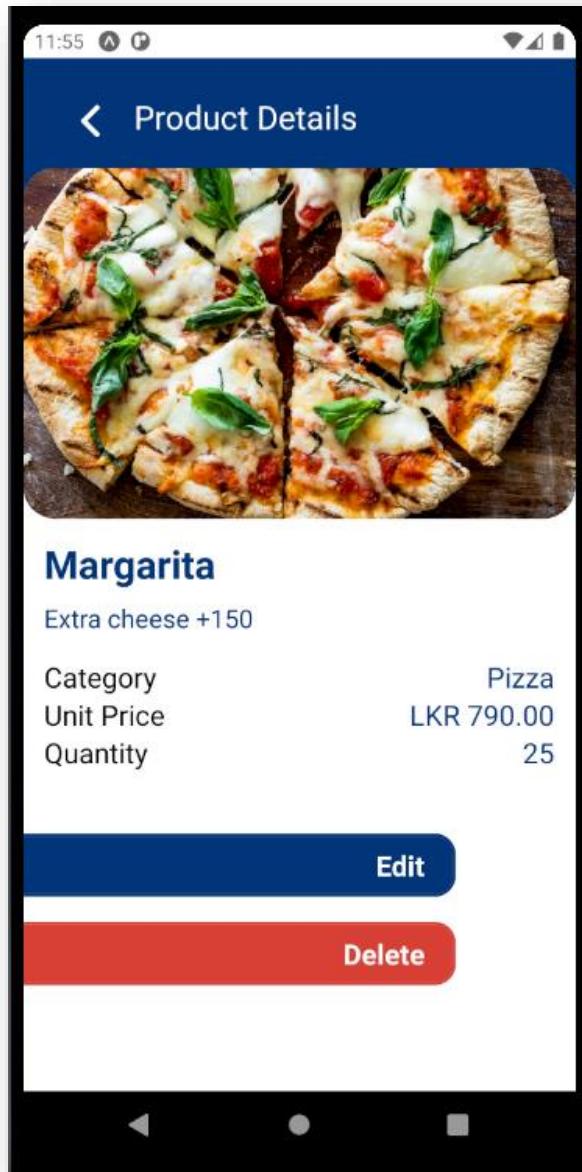
## Product Page



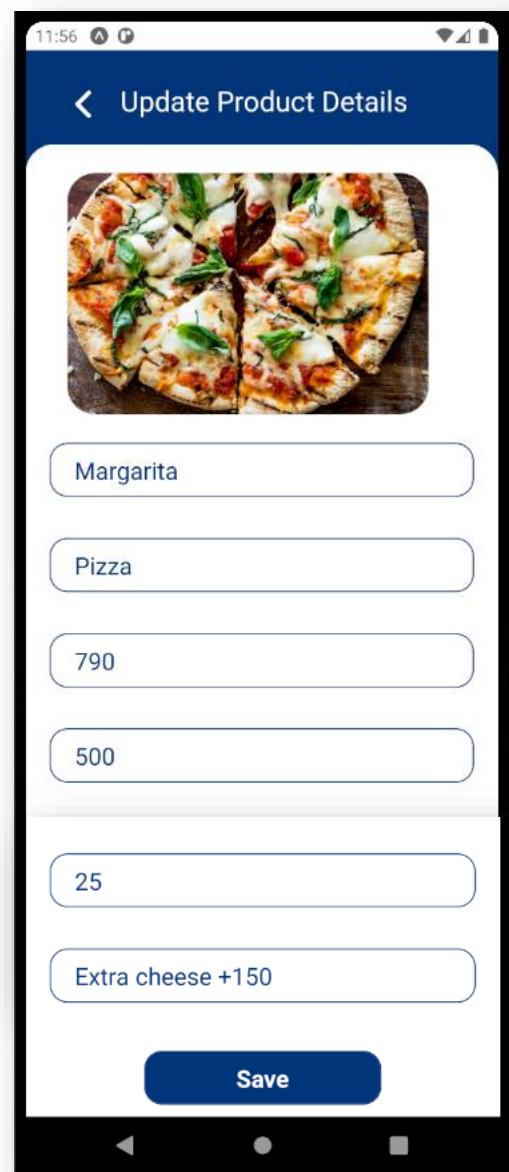
## Add Product



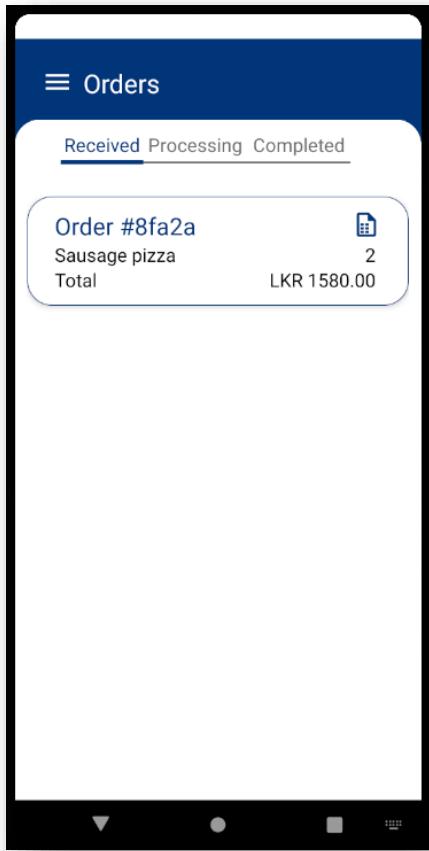
**Product details Page**



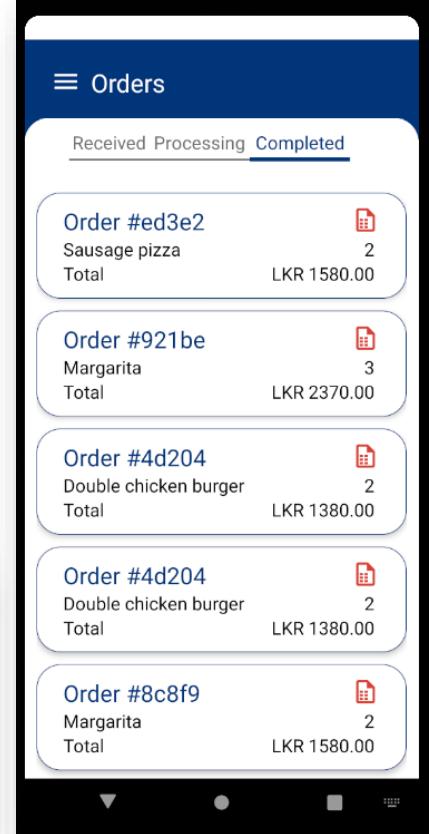
**Update Product Page**



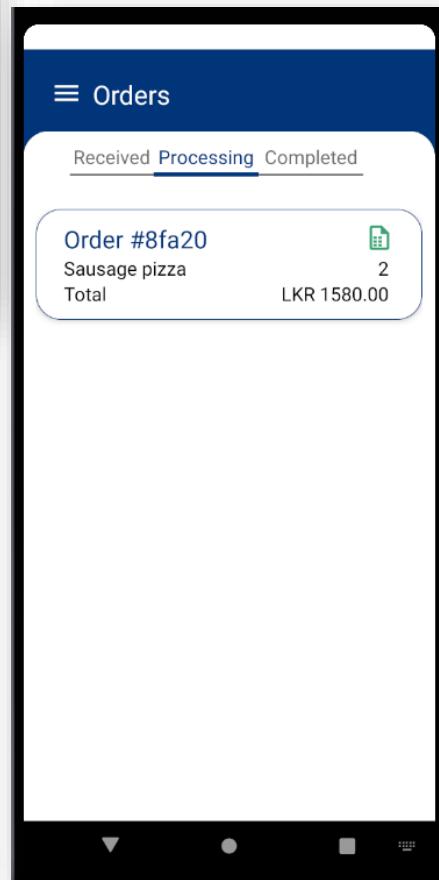
**Orders received page**



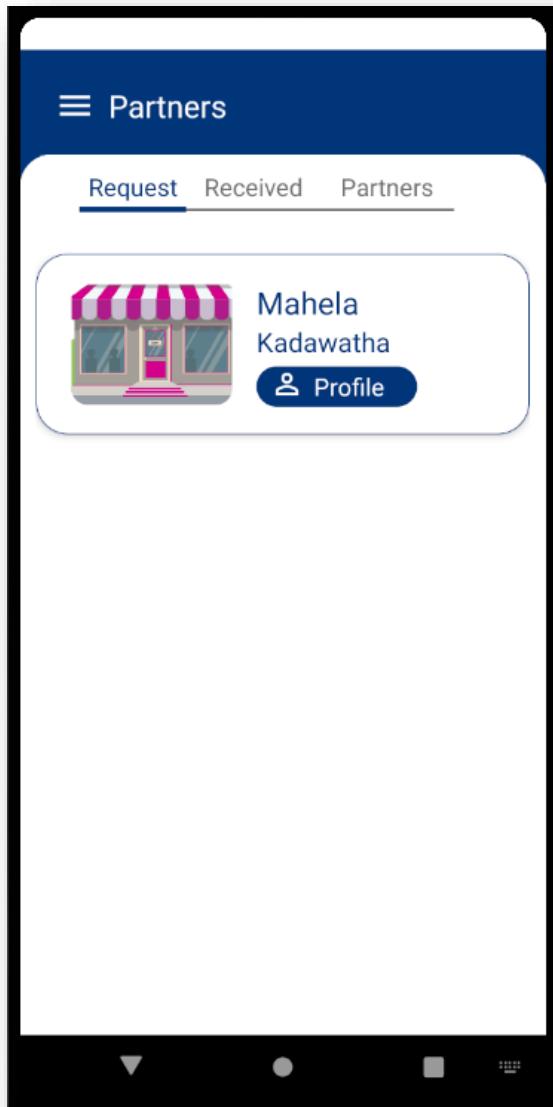
**Completed Orders page**



**Orders Processing page**



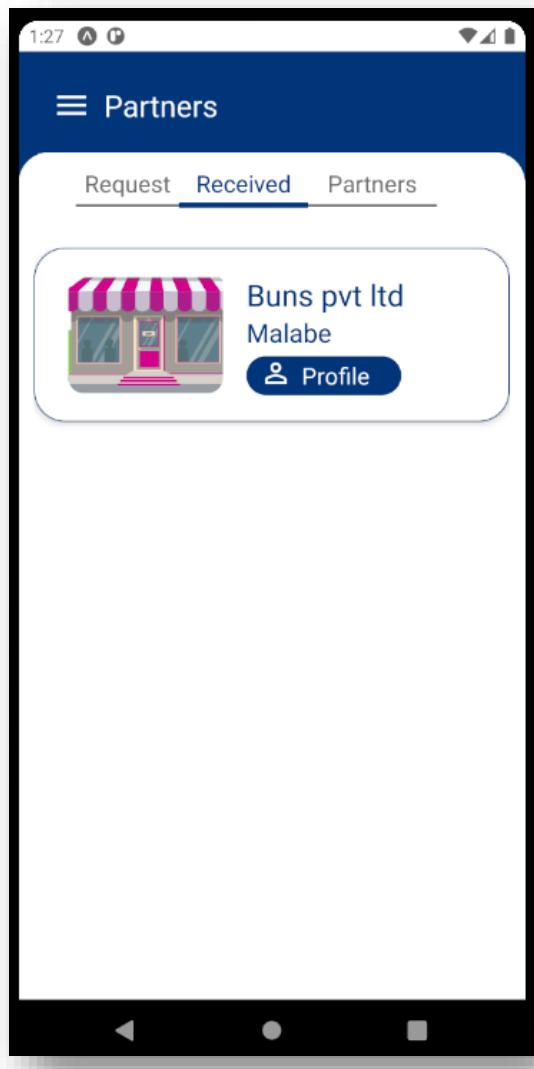
Partnership requesting Page



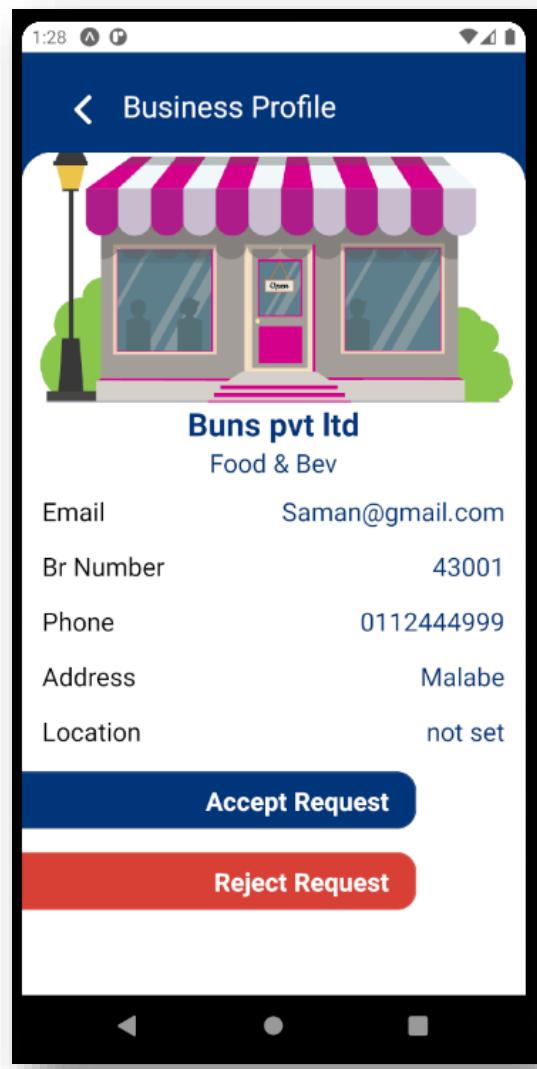
Partnership Business Profile page



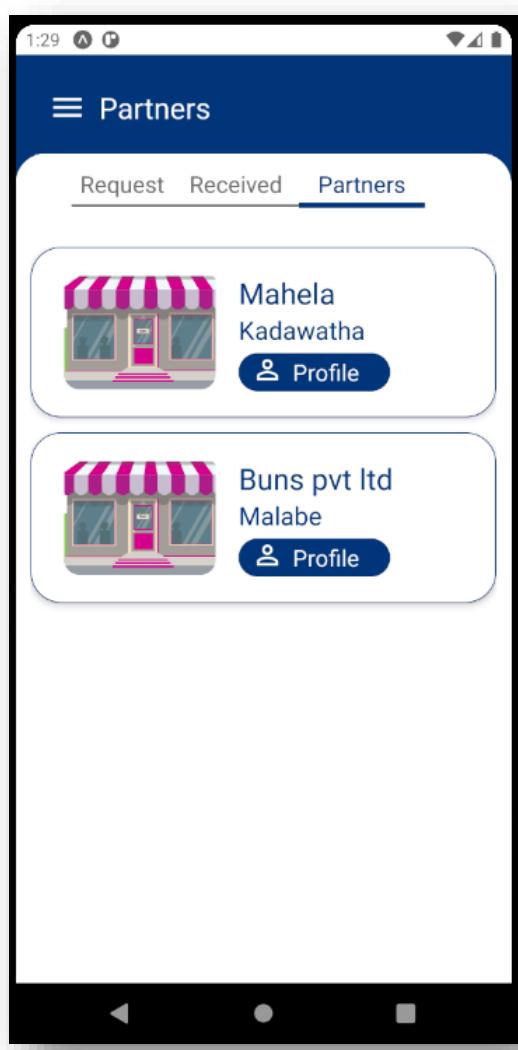
Partner's Request Page



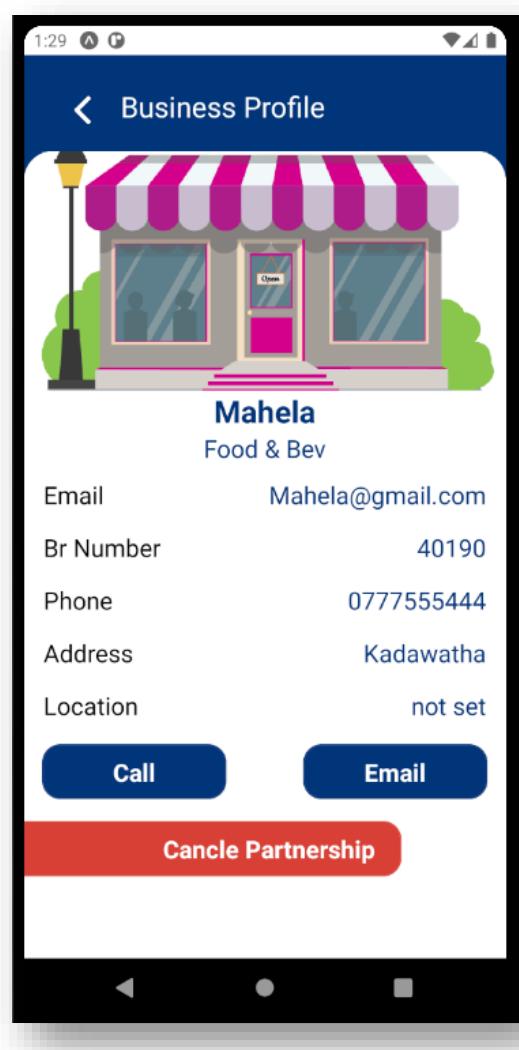
Partner's Business Profile Page



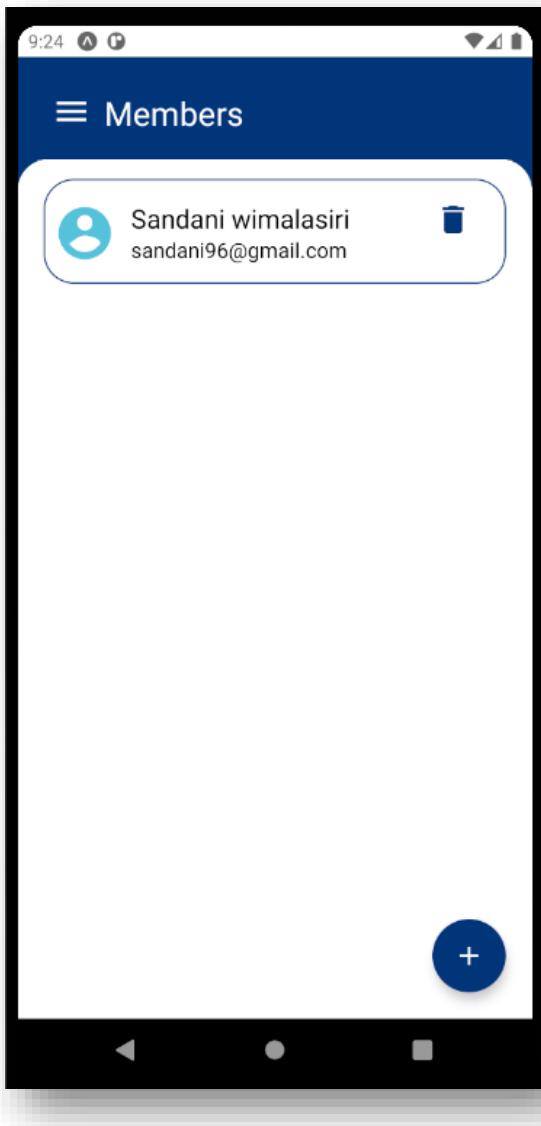
Partners Page – Accepted partners Page



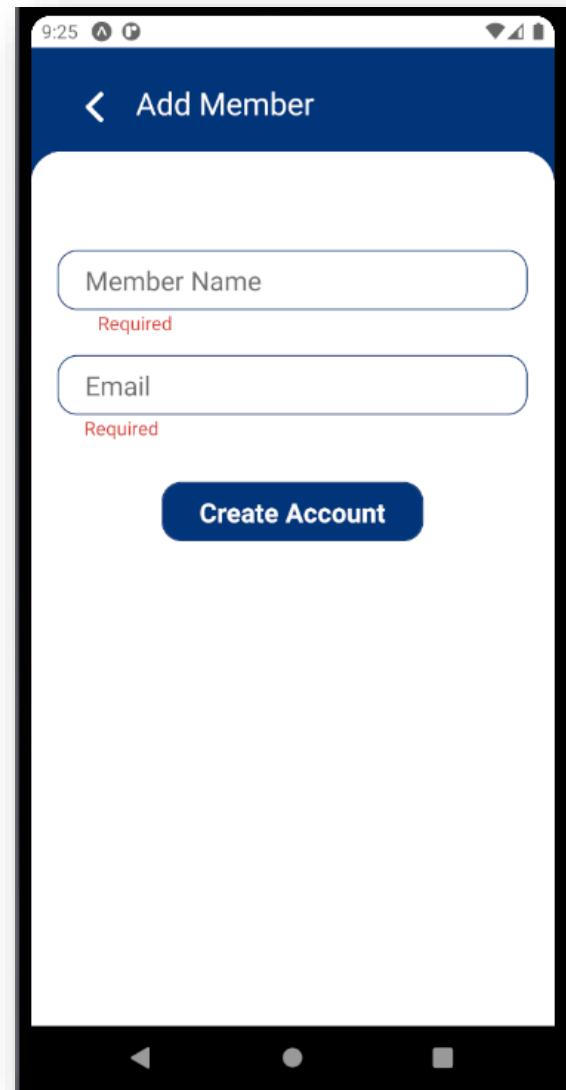
Business partner's Profile Page



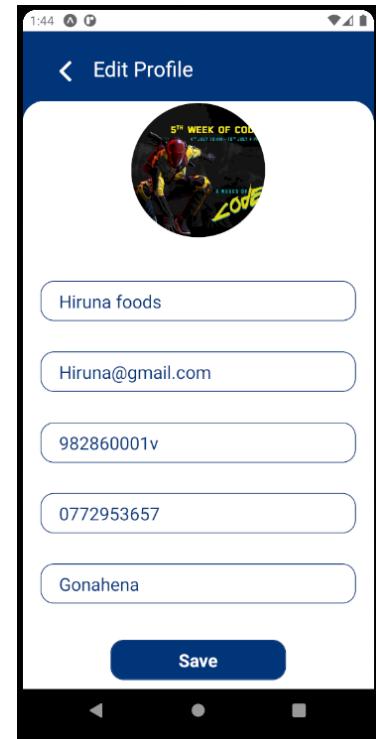
➤ Members adding Page



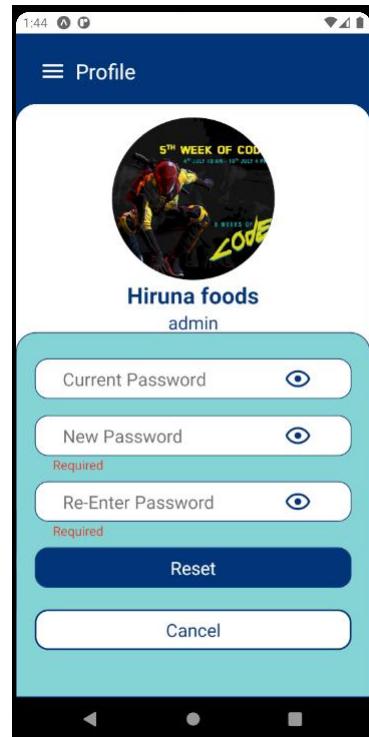
**Profile Page**



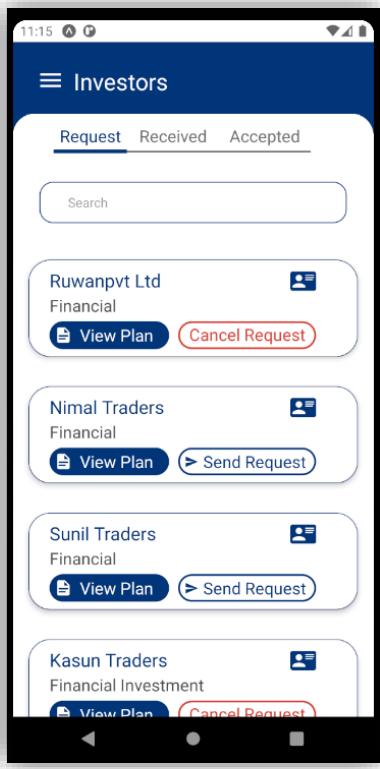
**Edit Profile Page**



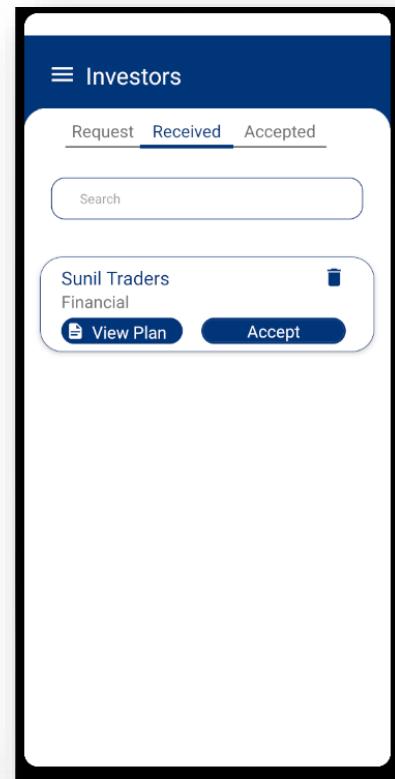
Reset password Page



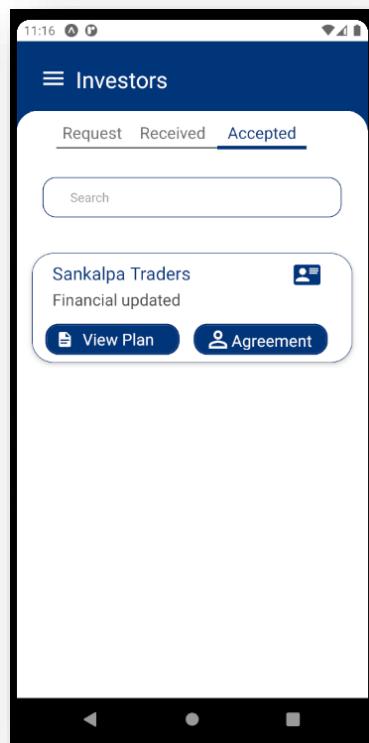
**Investors Page (send request to investors)**



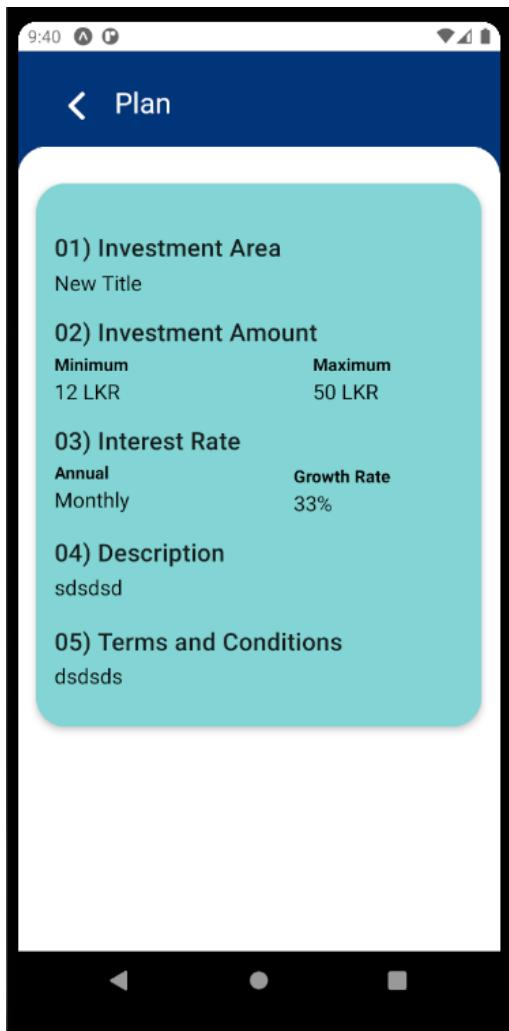
**Investor Page (Get request from Investors)**



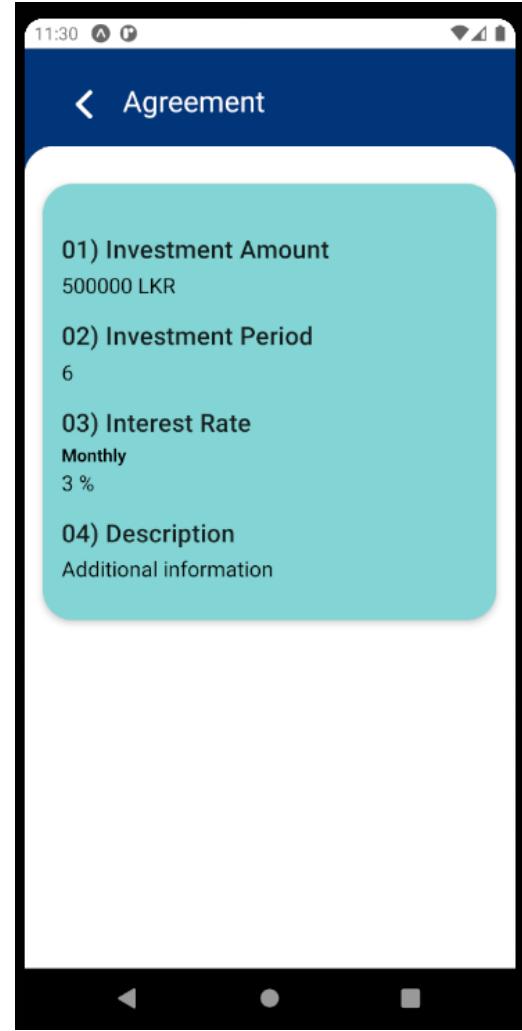
**Investor Page**



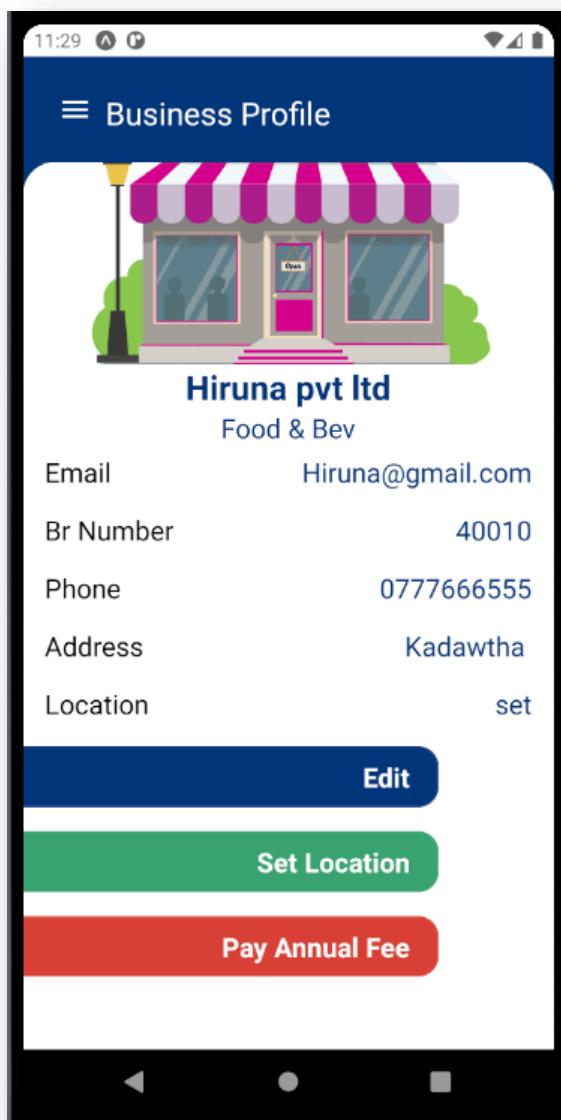
**Investment plan Page**



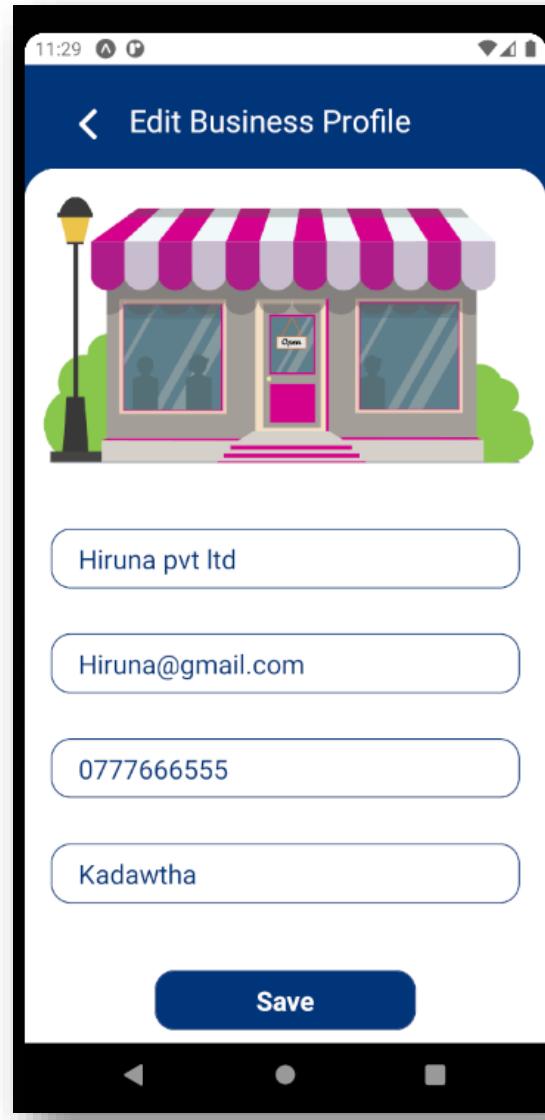
**Investment plan Page**



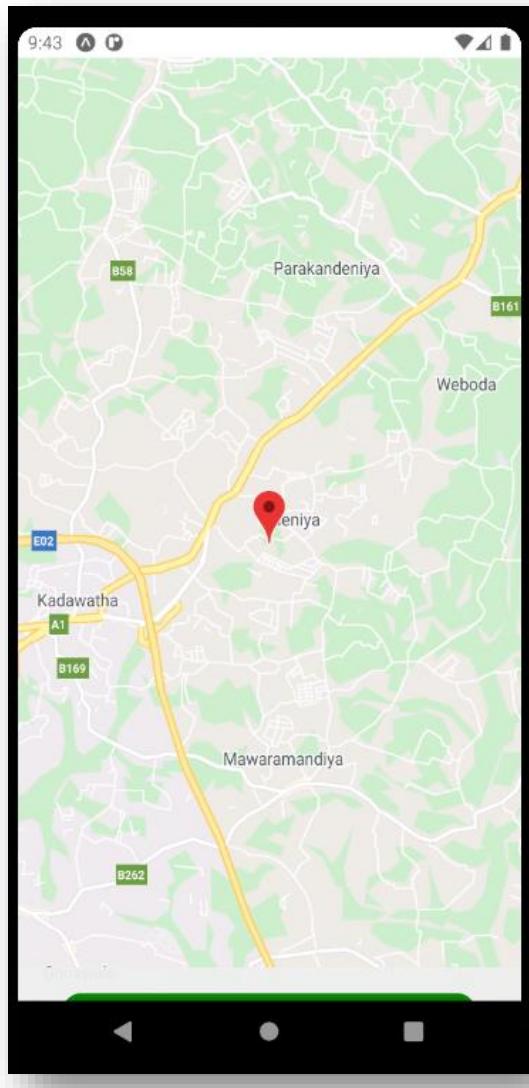
Business profile Page



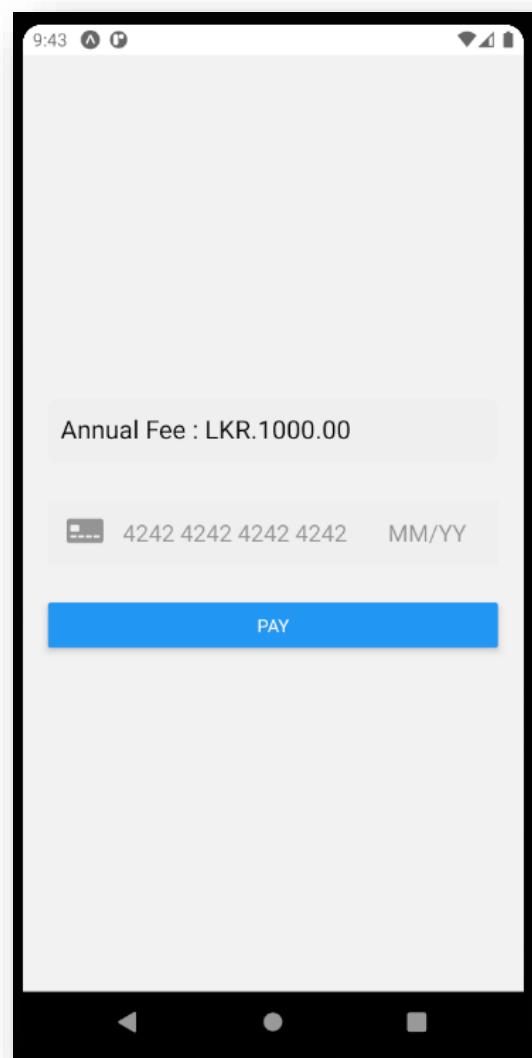
Update business profile Page



**Set location Page**

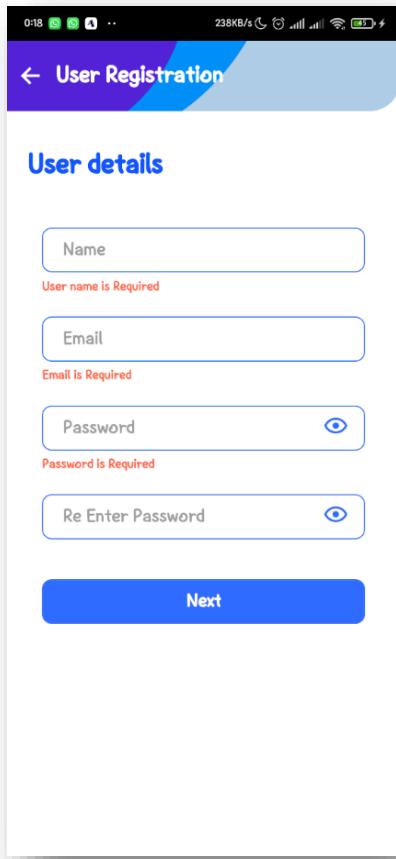


**Pay annual Fee**

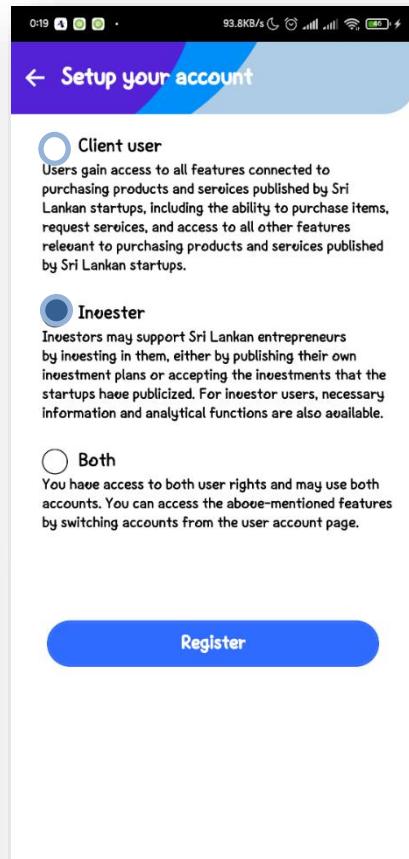


## ❖ Investor User

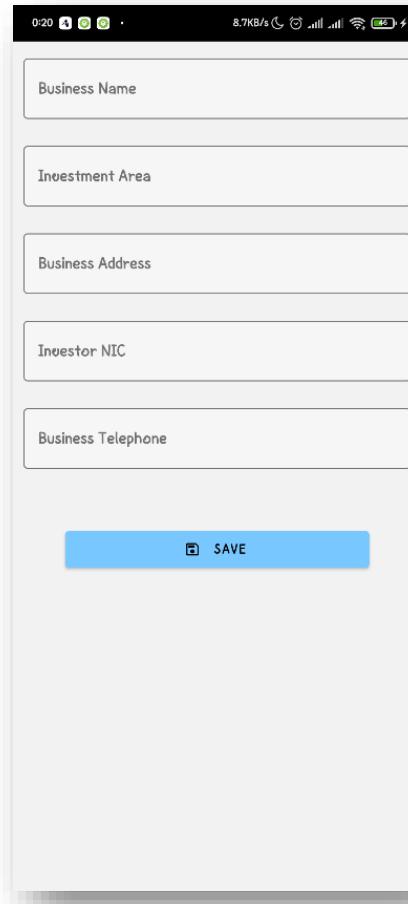
## User Registration page



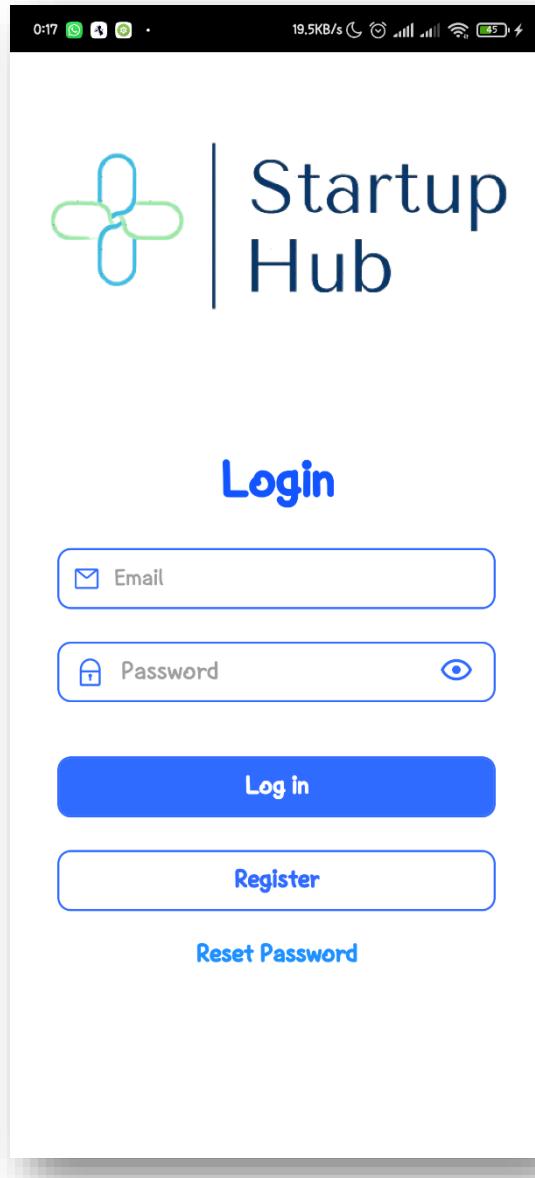
## Setup Your account page



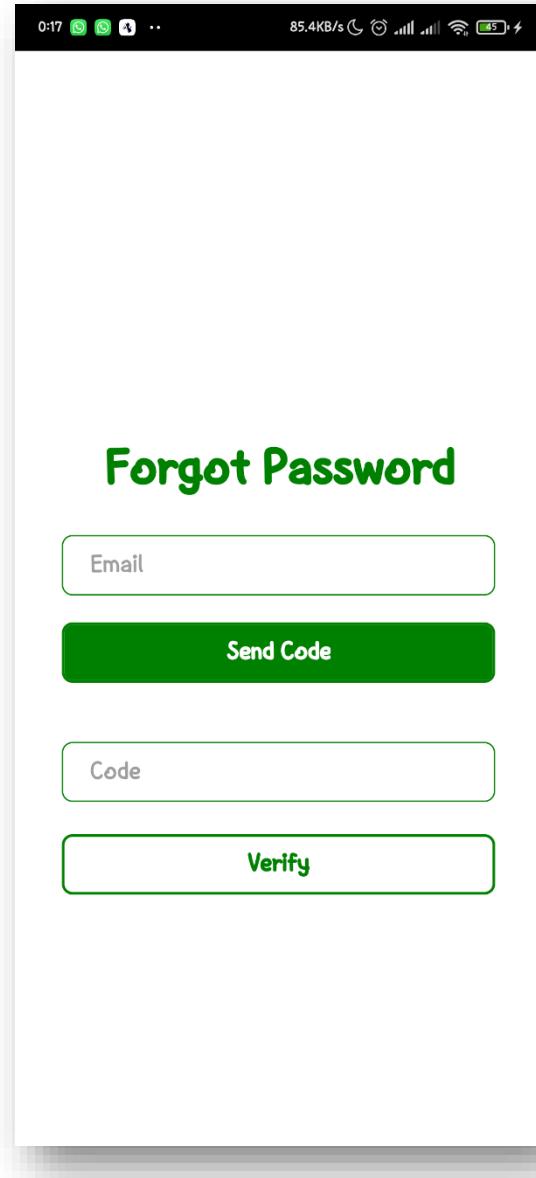
## Investor register Page



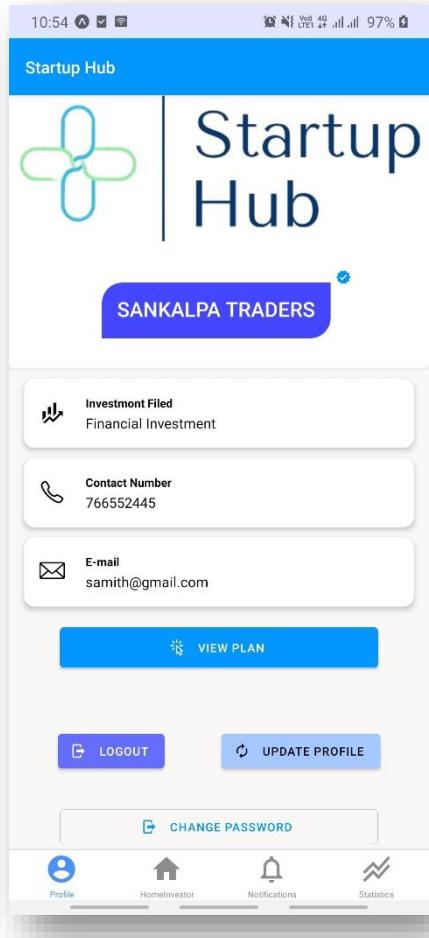
**Investor Login Page**



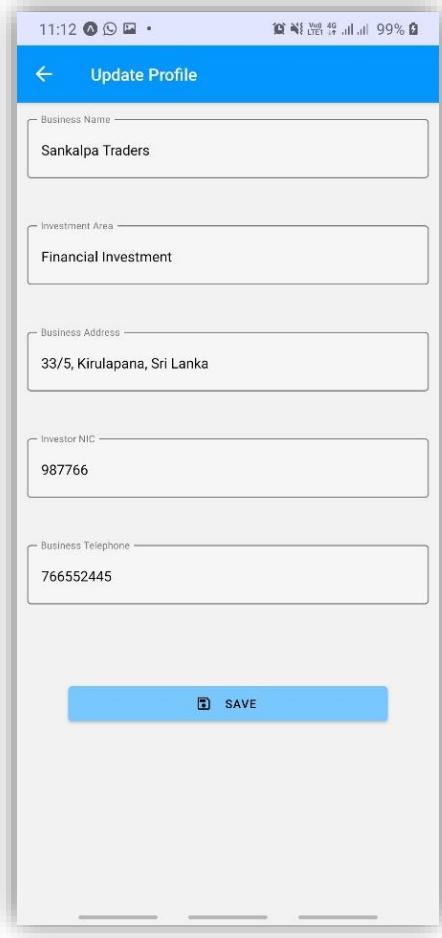
**Investor reset password Page**



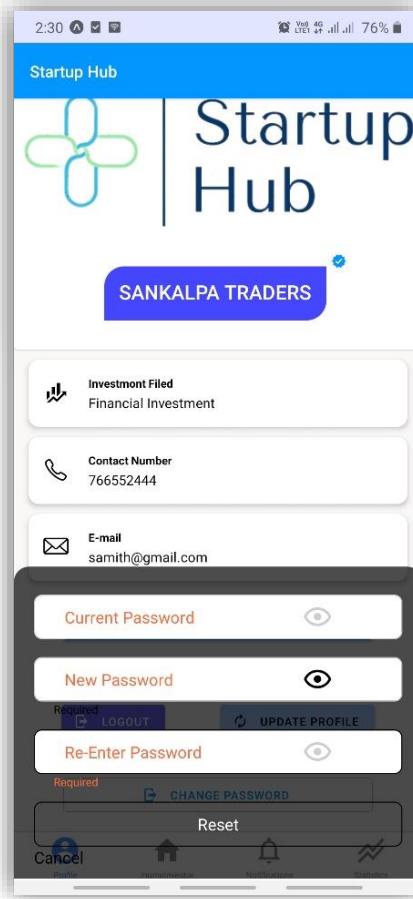
**Investor Profile Page**



**Investor update profile Page**



**Reset password Page**



## Create investment Plan

2:33 76%

**Create Investment**

Business Title

Title is Required

Minimum Investment Maximum Investment

Minimum Investment is Required Maximum Investment is Required

Return

Interest Rate is Required

Description

Description is Required

Terms and Conditions

Terms & Condition is Required

**PUBLISH**

**VIEW PLAN**

## View investment Plan

2:37 76%

**ViewPlan**

**01) Investment Area**  
Financial Investments

**02) Investment Amount**  
Minimum 300000 LKR Maximum 500000 LKR

**03) Interest Rate**  
Return 6%

**04) Description**  
All the details regarding to the investment agreement details can be enter here and main requirements.

**05) Terms and Conditions**  
Terms and conditions can be type here. All the legal and other functionalities relevant to the conditions.

**EDIT PLAN**

## Update investment Plan

10:55 97%

**Update Plan**

Business Title — Financial Investment

Minimum Investment — 300000 Maximum Investment — 500000

Growth Calculation Data

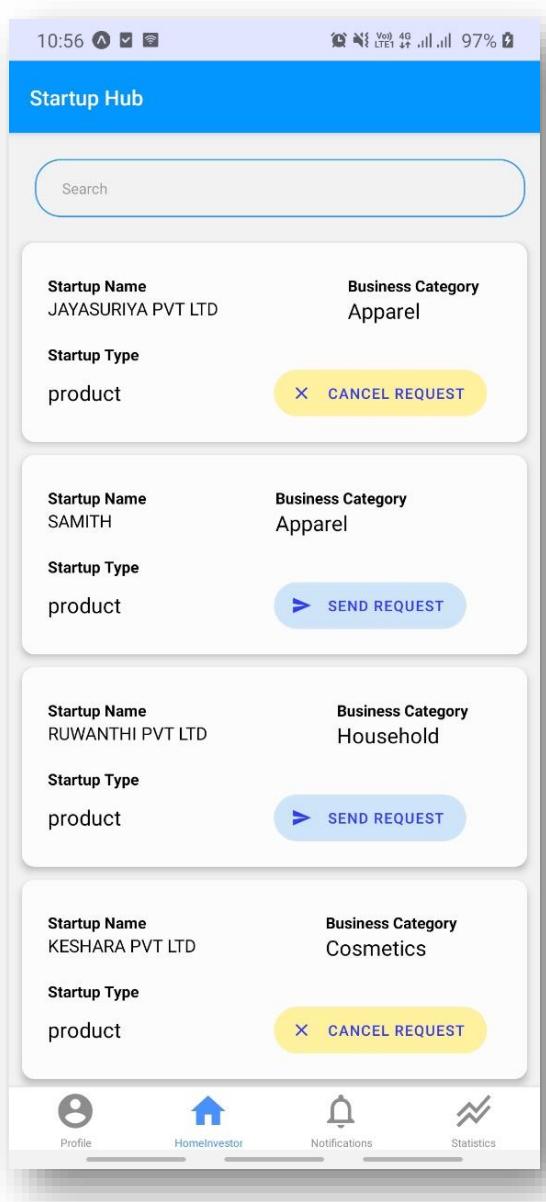
Return — 5

Description — Description can be type here updated

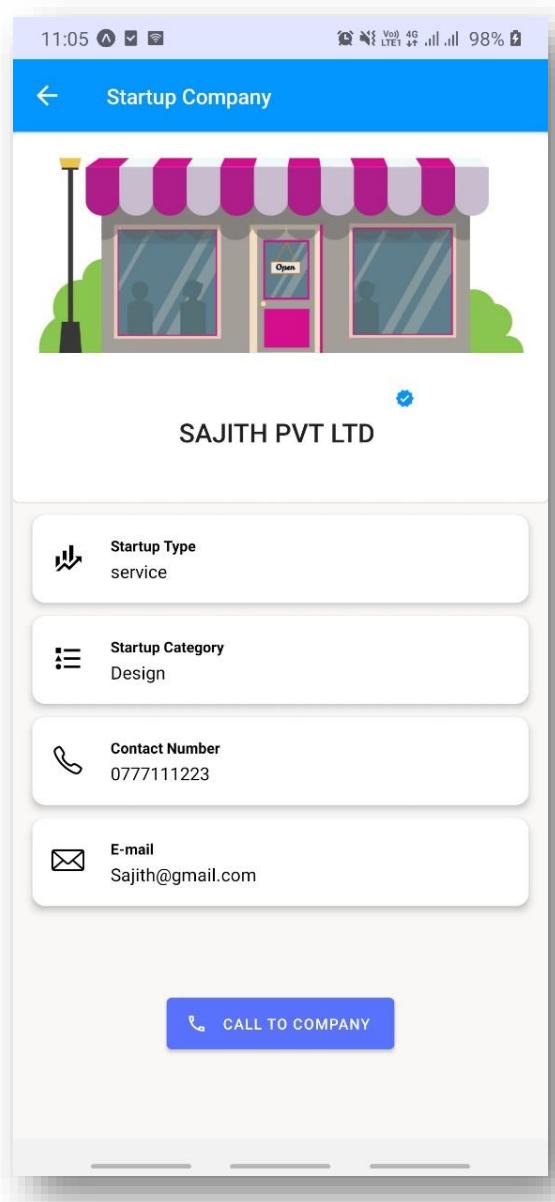
Terms and Conditions — Terms and condition can be type here

**SAVE**

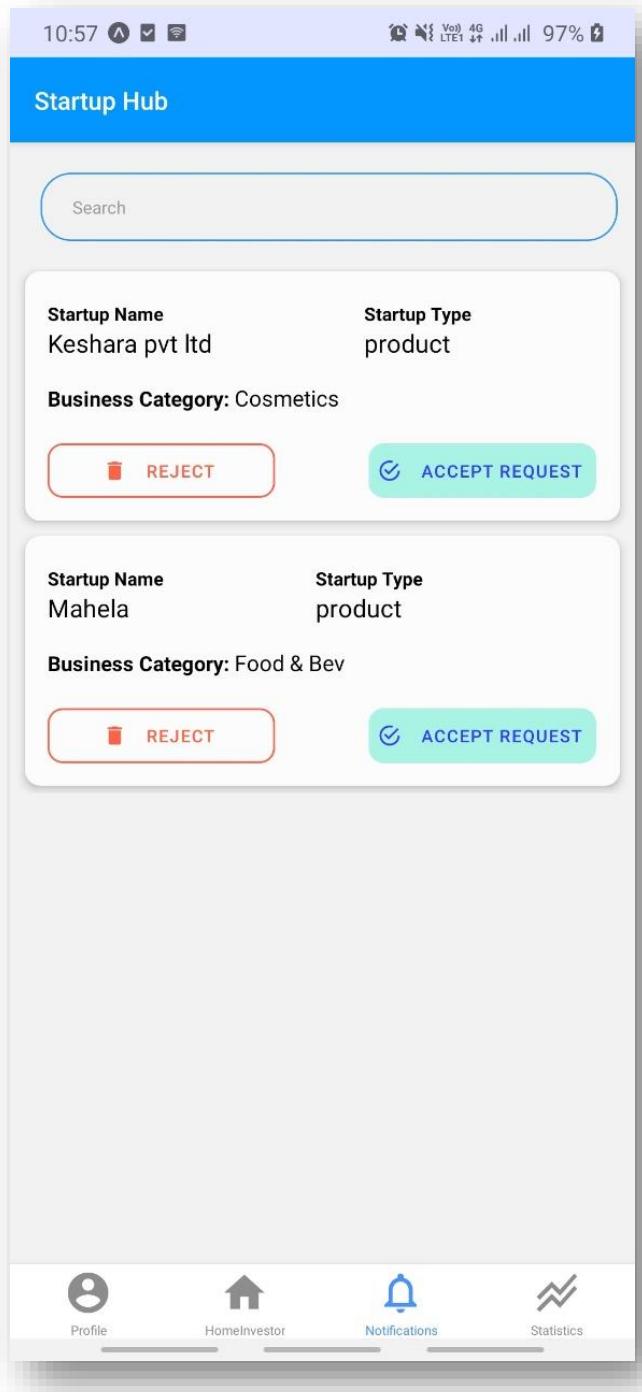
**Home Page of the Investor**



**Profile page of the startup business**



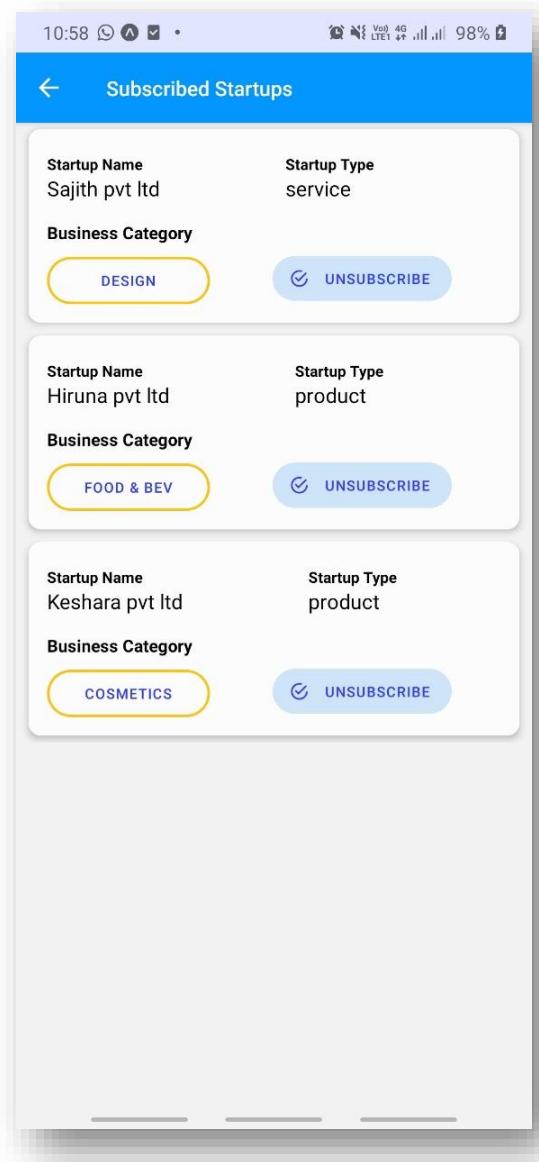
## Notification page



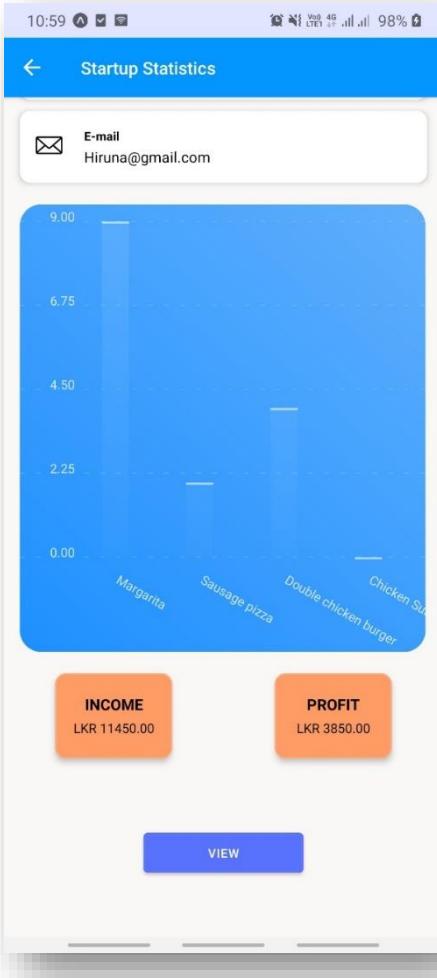
**Statistics Page**



**Subscribed startup Page.**



## Startup Statistics page



## Post agreement create page

The Post agreement create page contains fields for Investment Amount, Investment Rate, and Payback Period. The Payback Period dropdown is set to '3 Months'. A large text area for 'Additional Information' is present, with a note that 'Title is Required'. A blue 'SAVE DATA' button is at the bottom right.

**Investment Amount**

**Investment Rate**

**Payback Period**  
3 Months

**Additional Information**

**SAVE DATA**

## Update agreement page

The Update agreement page lists five investment details: i) Investment Amount (Rs. 500000), ii) Investment Date (2021-07-29), iii) Payback Period (3 months), iv) Investment Rate (3%), and v) Investment Information (with a note that additional information can be entered). Below the list is an illustration of two people shaking hands over a document.

**i) Investment Amount**  
Rs. 500000

**ii) Investment Date**  
2021-07-29

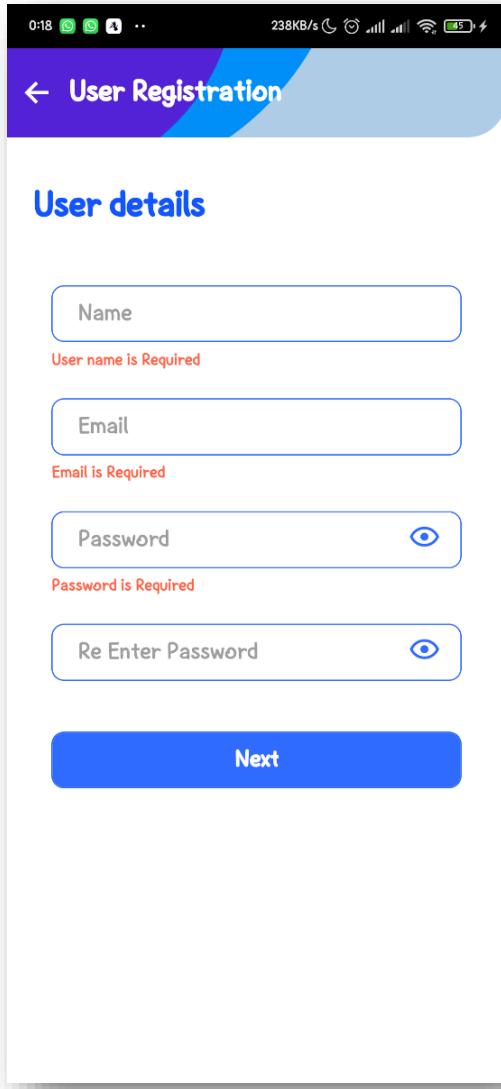
**iii) Payback Period**  
3 months

**iv) Investment Rate**  
3%

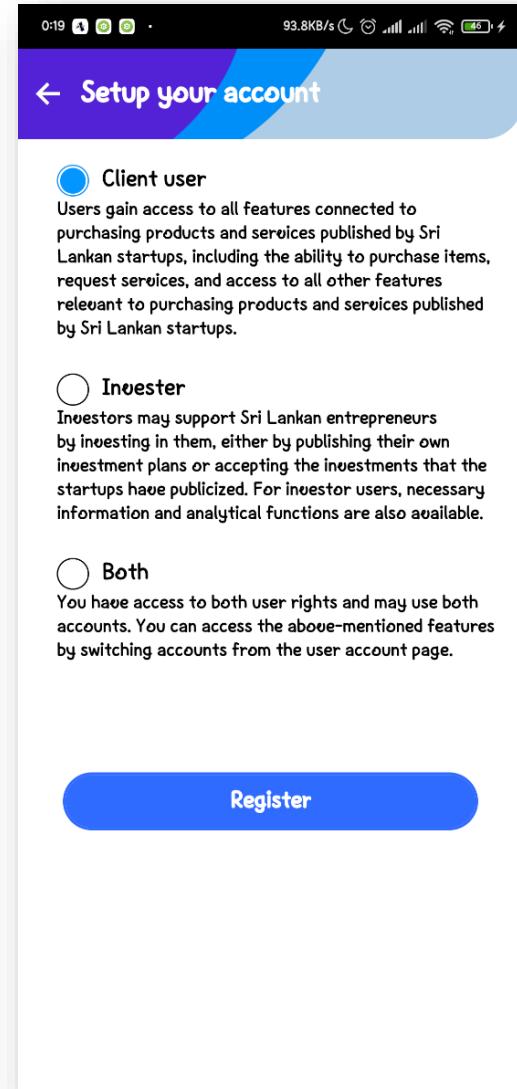
**v) Investment Information**  
Additional information can be enter here

## ❖ Client User

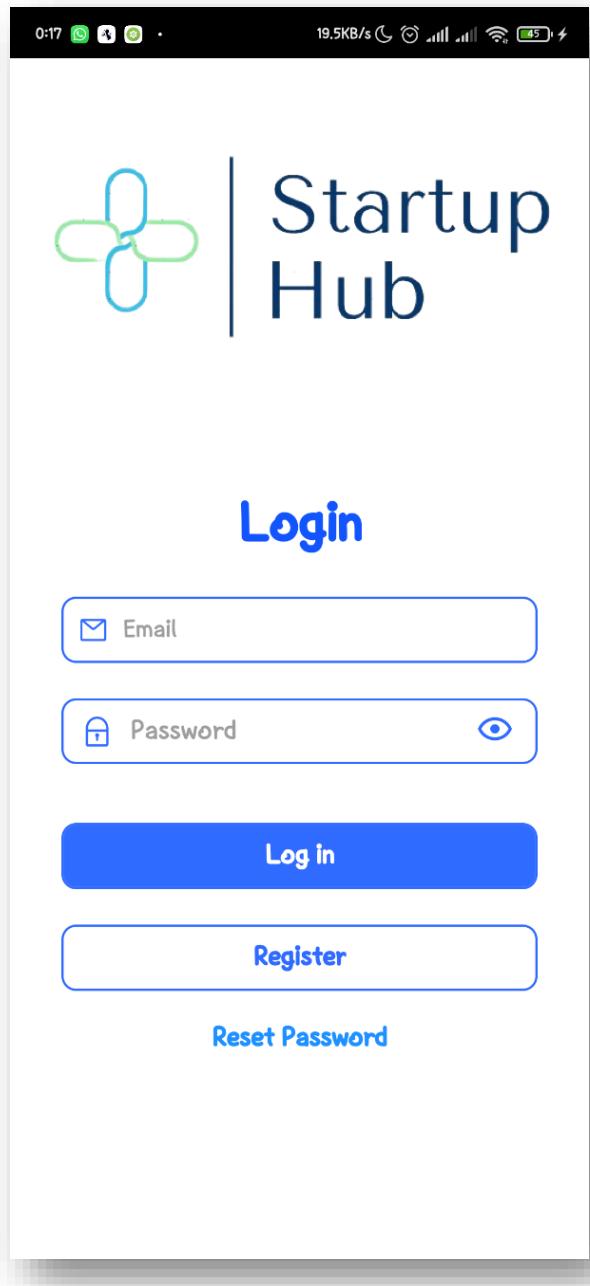
User Registration page



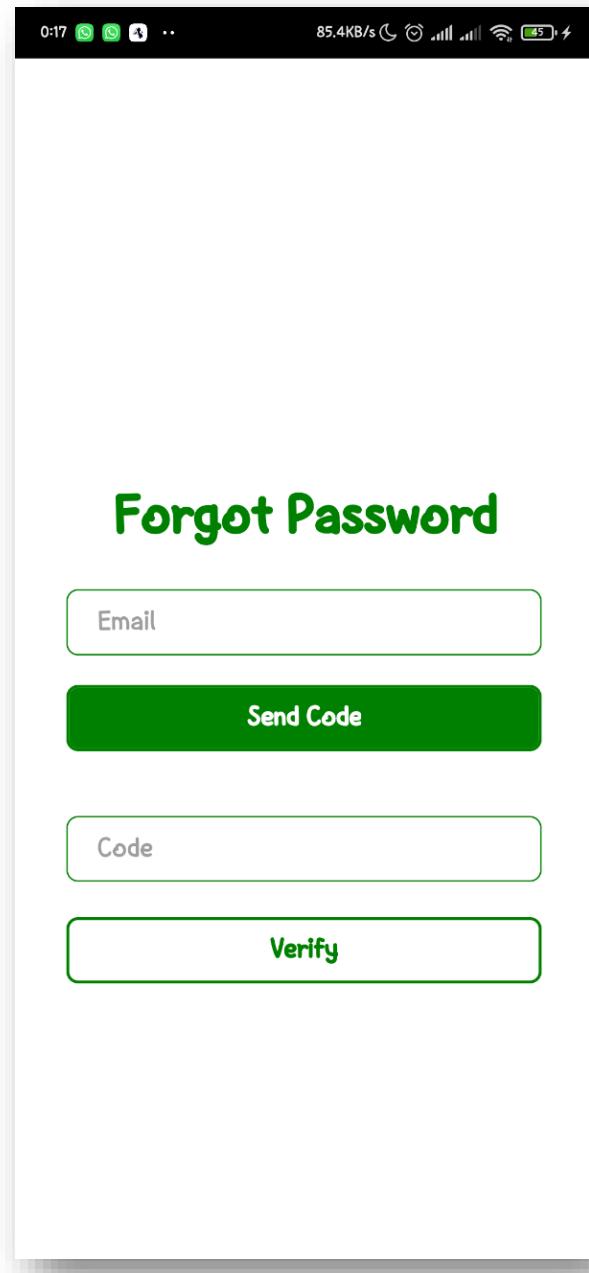
Setup Your account page



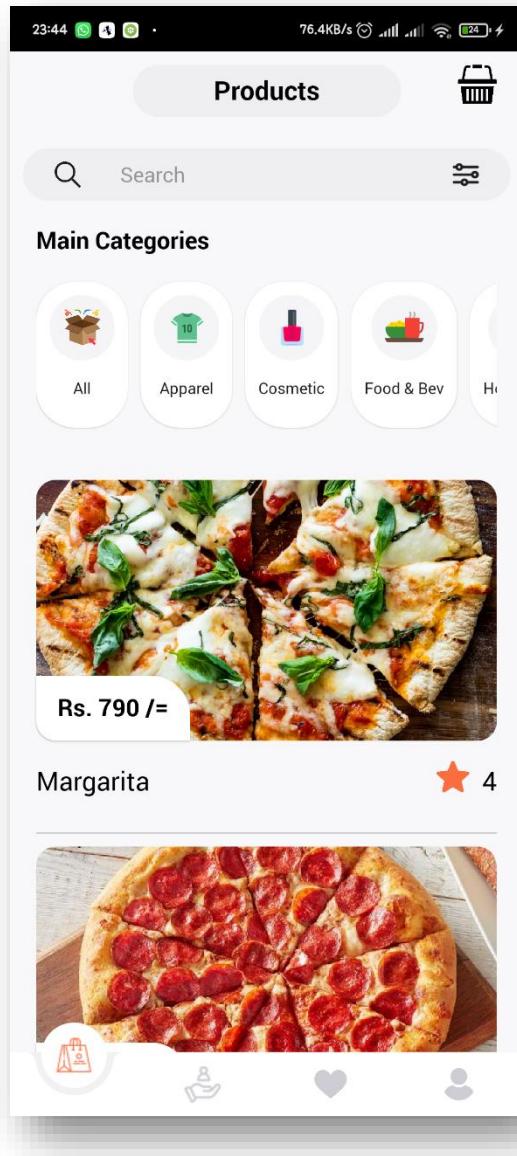
Client Login Page



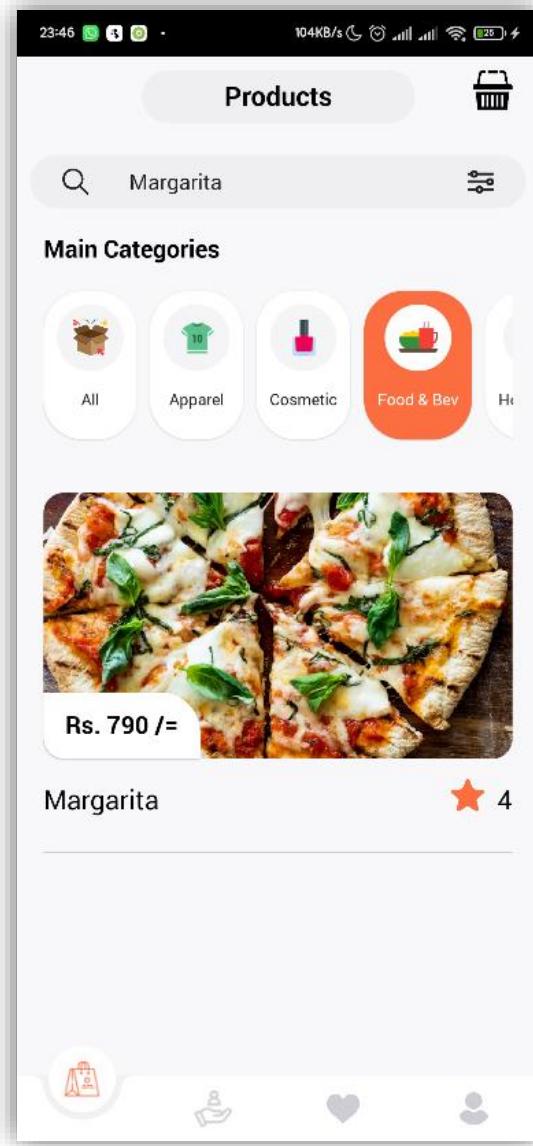
client forgot password Page



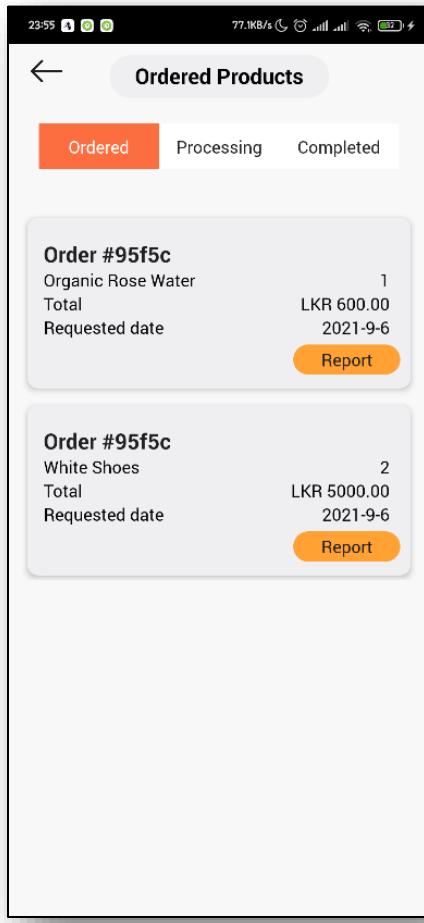
Products Home page



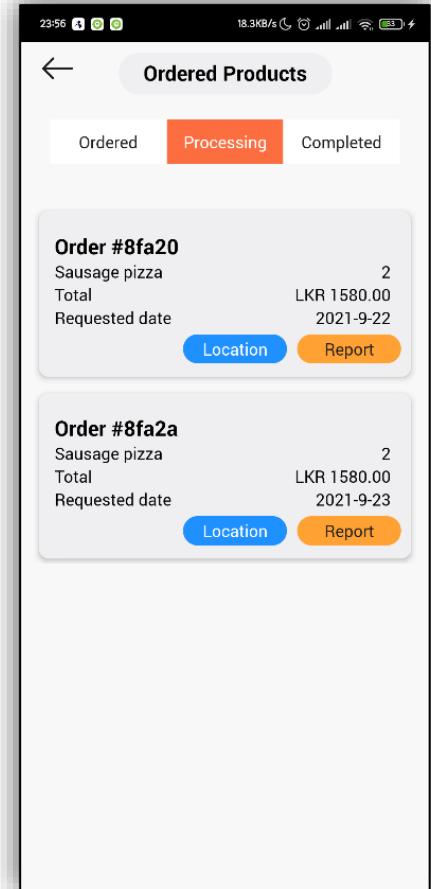
Search Products page



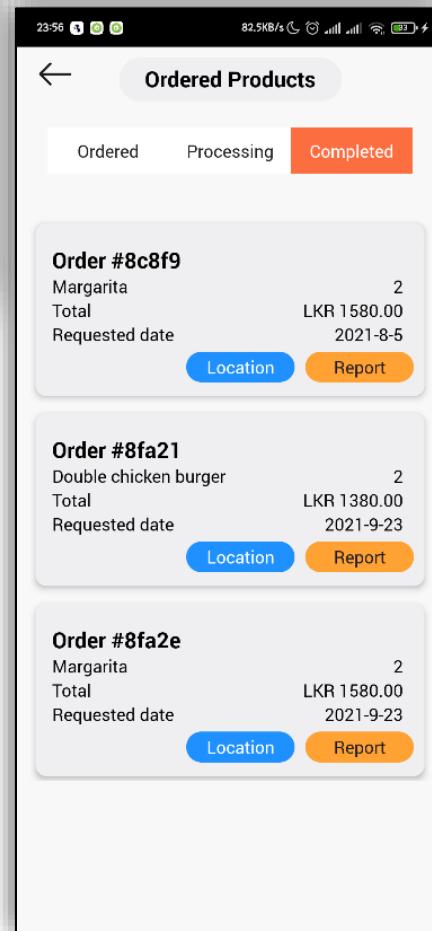
## Product Order Page



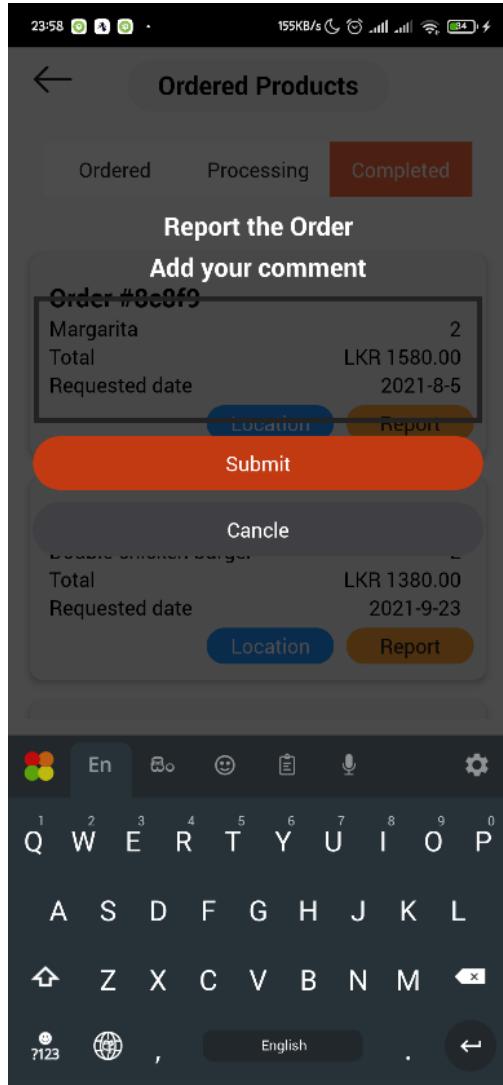
## Processing Order Page



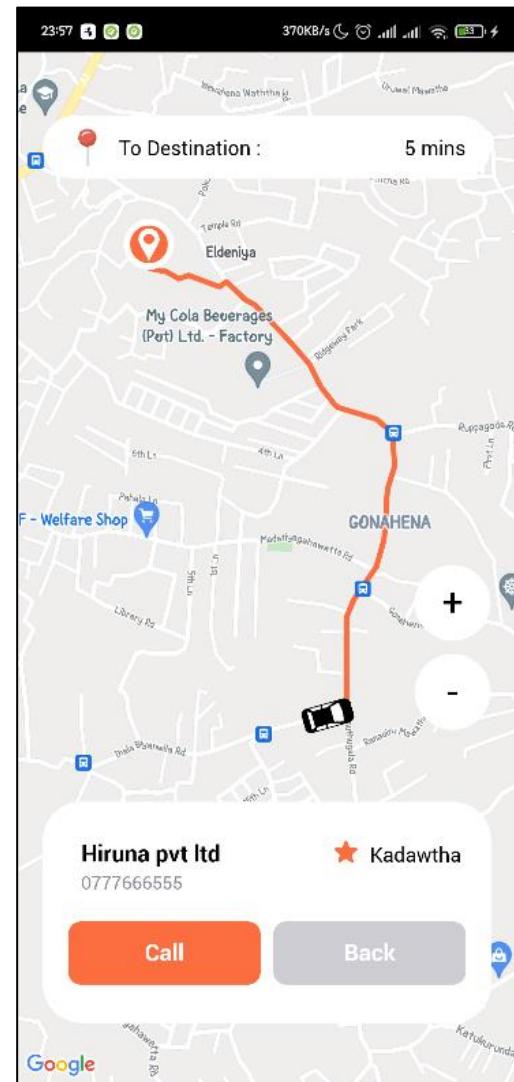
## completed Order Page



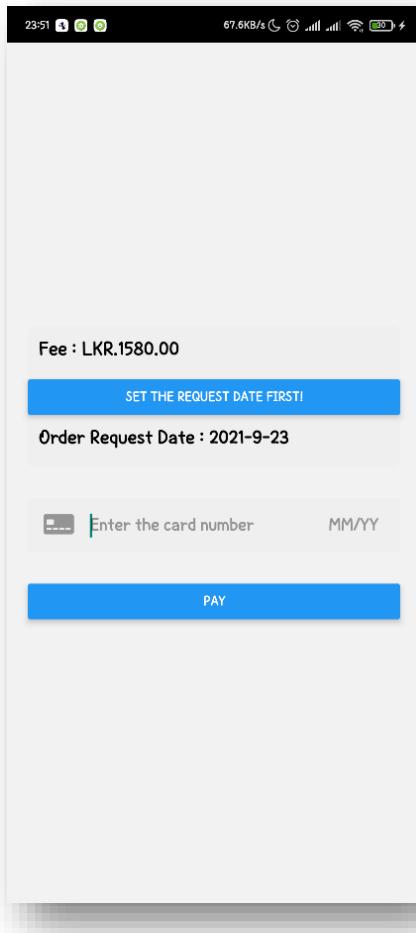
### Report adding Page



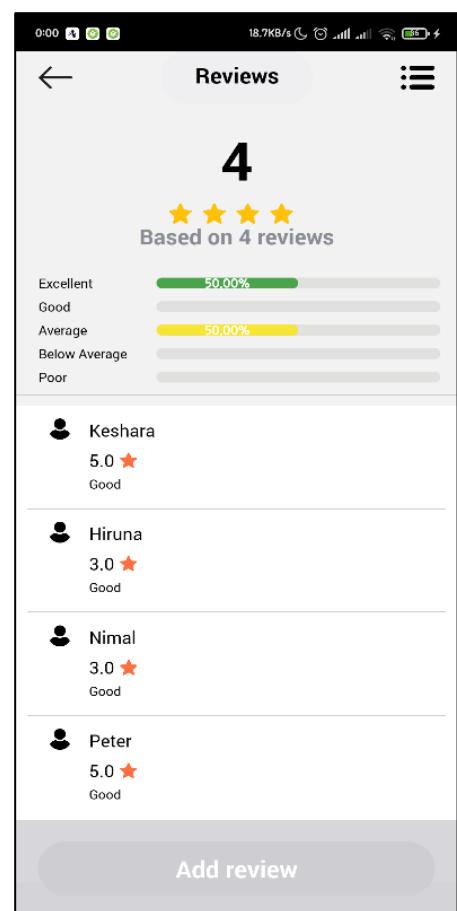
### view destination Order Page



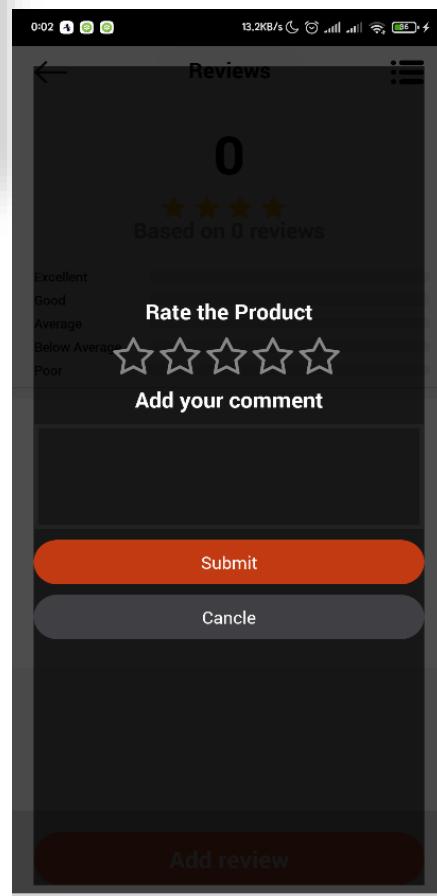
### Payment Page



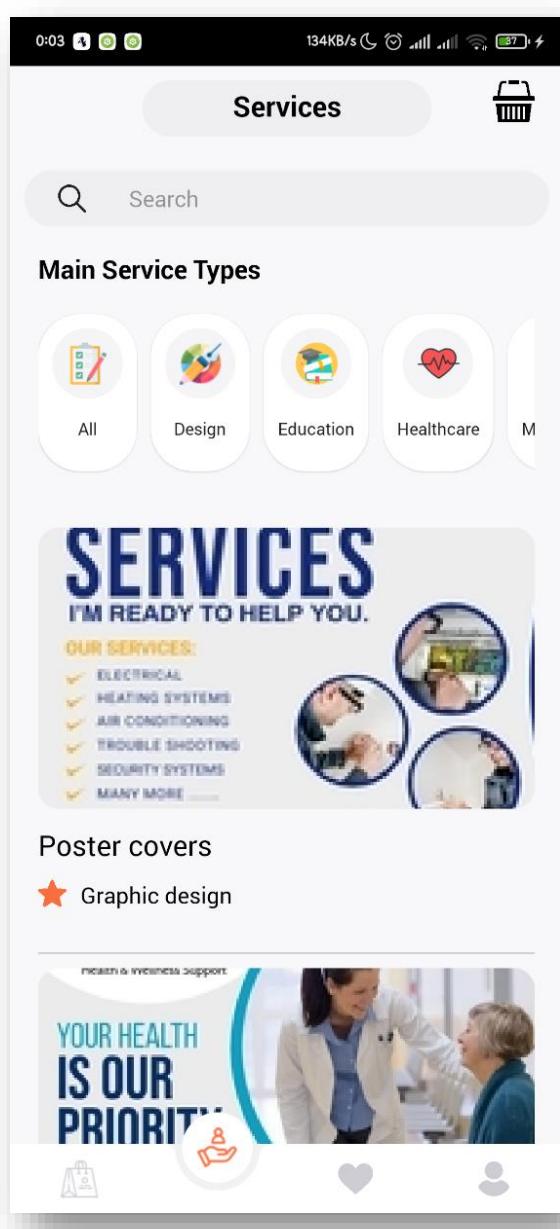
### Product Review Page



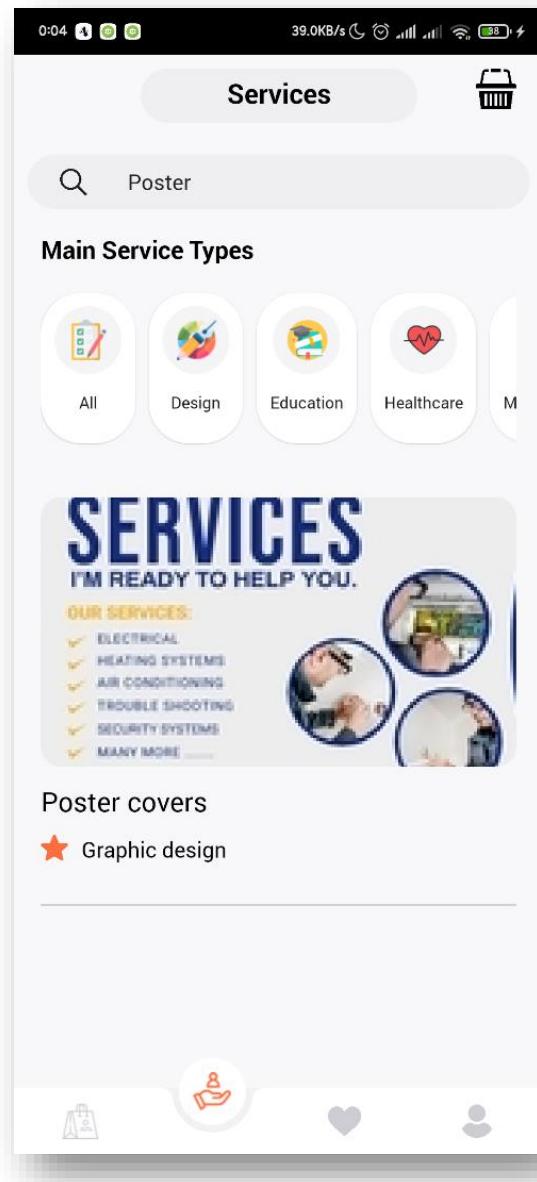
### Review adding Page



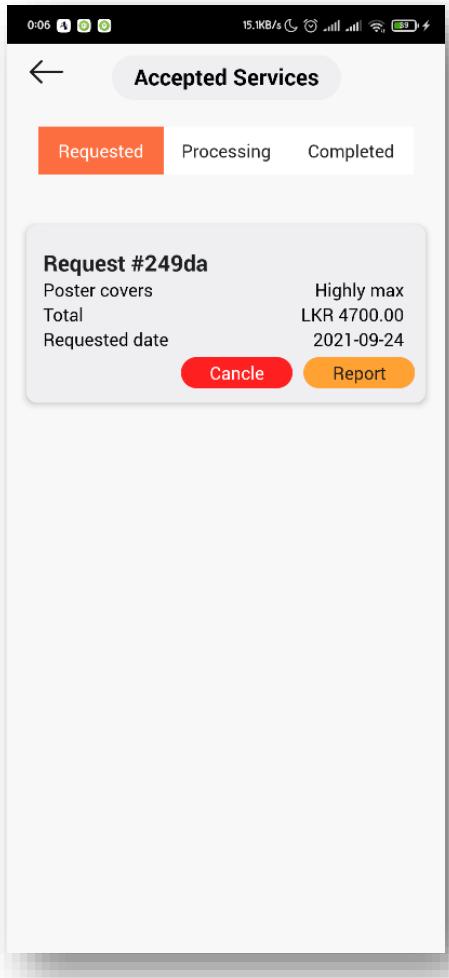
Service Home page



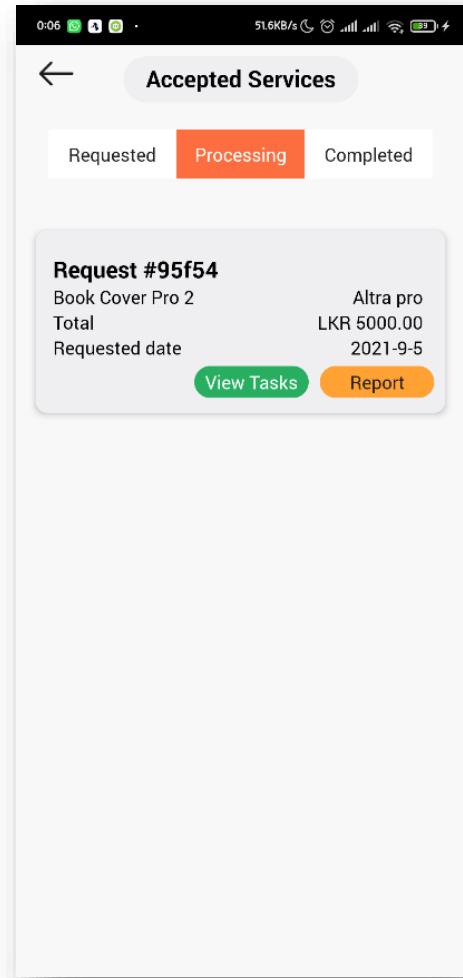
Search Service page



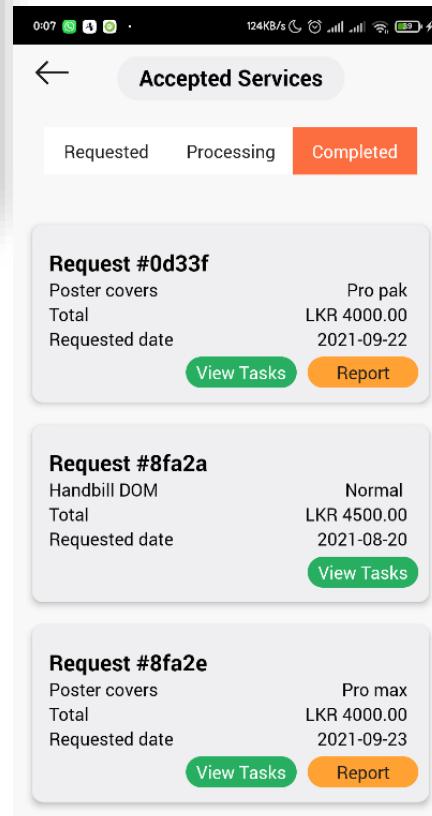
## Request Service Page



## processing Page



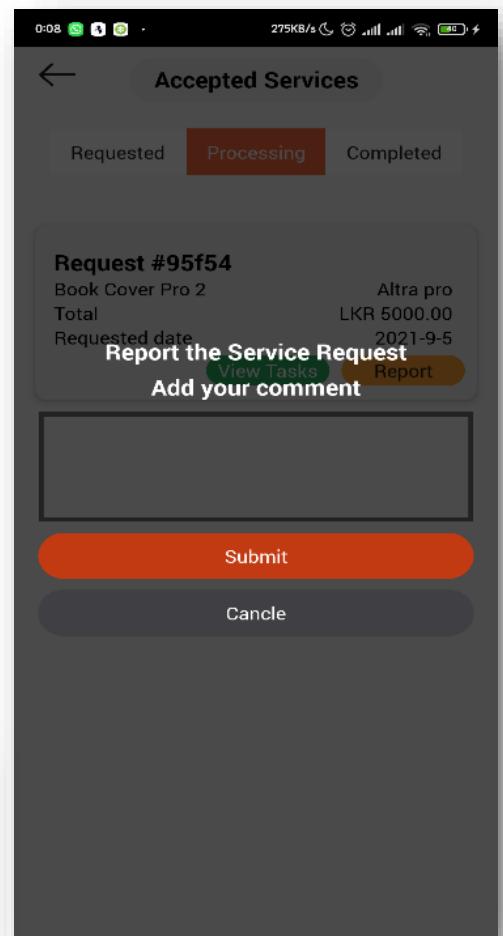
## Completed Service Page



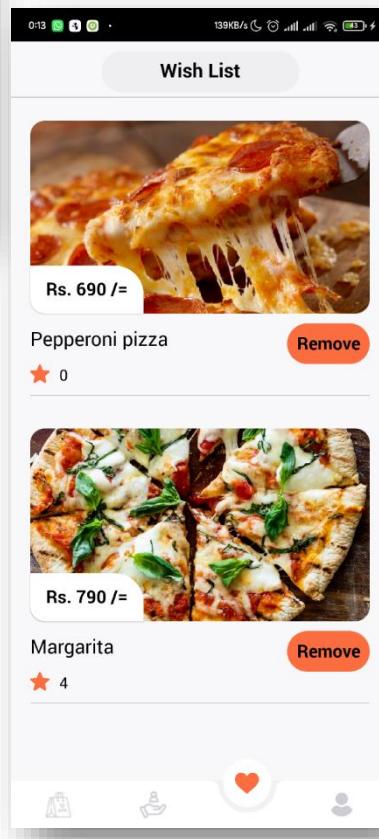
### Service selecting Page



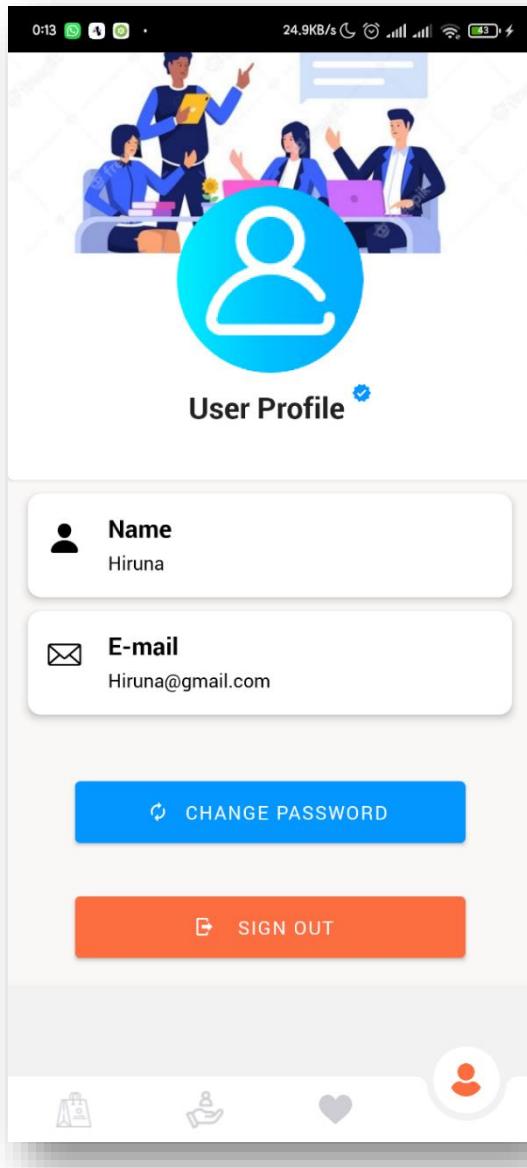
### Service reporting Page



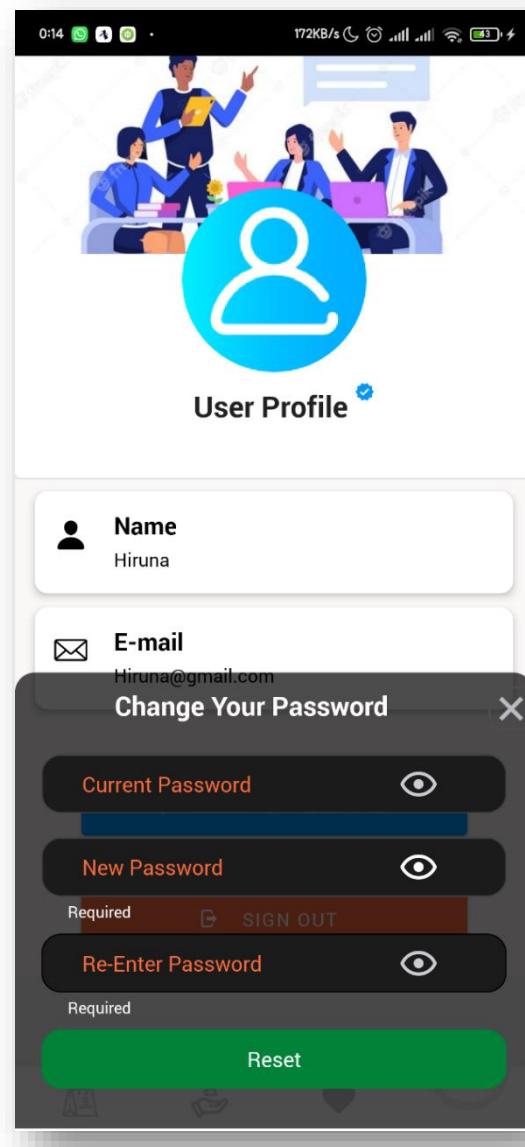
### Wish list Page



**Profile Page**

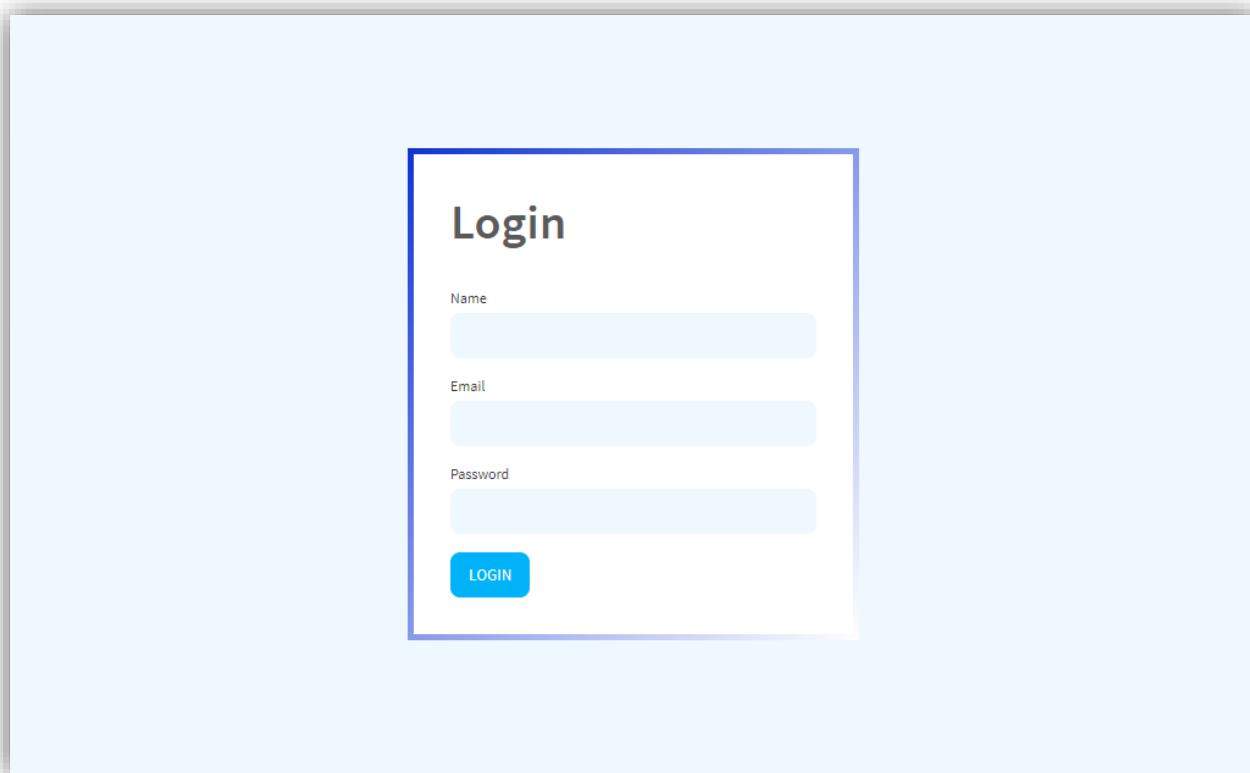


**Change password Page**



❖ **Admin Manual**

**Admin Login Page**



## Admin Home Page

**Startup HUB**

**Dashboard**

- Home
- StartUp Users
- Other Users

**Client Users** **12**

**StartUp Users** **15**

**Investor Users** **7**

**Monthly Income**

Month	Income
Feb	5
Mar	5
Apr	5
May	5
Jun	5
Jul	10
Agu	15
Sep	10
Oct	5
Nov	5
Dec	5

**User inquiries**

User Name	Placed Date	Action
40010	2021-09-03	<a href="#">View</a>
40010	2021-09-22	<a href="#">View</a>
40010	2021-09-22	<a href="#">View</a>
40010	2021-09-22	<a href="#">View</a>
40010	2021-09-23	<a href="#">View</a>

1-5 of 8 < >

**Pending Payment List**

Company Name	Email	Last Payment Date	Action
Jayasuriya pvt Ltd	Jayasuriya@gmail.com	2020-8-1	<a href="#">View</a>
Samith	Samith@gmail.com	2020-7-1	<a href="#">View</a>
Keshara pvt Ltd	Keshara@gmail.com	2020-8-1	<a href="#">View</a>
Mahela	Mahela@gmail.com	2020-8-1	<a href="#">View</a>

1-4 of 4 < >

## View Startup User Details

### Startup HUB

#### Dashboard

- Home
- StartUp Users
- Other Users

#### StartUp Dets

Hiruna pvt ltd product

##### Account Details

- Food & Bev
- Kadawtha
- 0777666555
- Hiruna@gmail.com

#### Payment Details

Ban Warning

Payment Id	Payment Date	Amount	Payable year
1	2021-8-21	1000	2021

1-1 of 1 < >

#### complains

Complain Id	Complain Date	Order id	Description	Status
1	2021-09-03	ed3e2	Not Received	viewed
2	2021-09-22	32af3	Not yet completed	placed
3	2021-09-22	32af3	Not yet completed	placed
4	2021-09-22	32af3	Not yet completed	placed
5	2021-09-23	32af3	Not yet completed	placed
6	2021-09-23	32af3	Not yet completed	placed

1-6 of 6 < >

#### Warning

Complain Id	Placed Date	Warning t...	Complain Category	Status	Description
1	2021-8-20	Reminder	Annual	viewed	not pay
2	2021-8-21	Reminder	Client Complaints	viewed	not paid
3	2021-9-21	Reminder	Client Complaints	placed	not received
4	2021-9-23	Reminder	StartUp fault	placed	not paid annual fee
5	2021-9-24	warning	Active	placed	Active
6	2021-9-24	warning	Active	placed	Active

1-7 of 9 < >

#### Users List

ID	User Name	Email	Identity Card No.	Type	Mobile Number
1	Hiruna foods	Hiruna@gmail.com	982860001v	admin	0772953657
2	Kamal Perera	Kamal@gmail.com	962791065v	member	0714234567
3	Jagath Perera	Jagath@gmail.com	954738924v	member	0712341564
4	Perera	Perera@gmail.com		member	

1-4 of 4 < >

## Add Warning Page

**Startup HUB**

**Warning**

Type: Warning | Complain Category: Annual Payment

Description:

Submit

## Startup User Page

**Startup HUB**

**Dashboard**

Home | StartUp Users | Other Users

ID	StartUp Name	Email	Category	Type	Account Status	Users
1	Sajith pvt ltd	Sajith@gmail.com	Design	service	active	<button>View</button>
2	Hiruna pvt ltd	Hiruna@gmail.com	Food & Bev	product	active	<button>View</button>
3	Jayasuriya pvt ltd	Jayasuriya@gmail.com	Apparel	product	active	<button>View</button>
4	Samith	Samith@gmail.com	Apparel	product	active	<button>View</button>
5	Ruwanthi pvt ltd	Ruwanthi@gmail.com	Household	product	active	<button>View</button>
6	Keshara pvt ltd	Keshara@gmail.com	Cosmetics	product	active	<button>View</button>
7	Mahela	Mahela@gmail.com	Food & Bev	product	active	<button>View</button>
8	Shadow pvt ltd	hirunajayasuriya98@gm...	Household	product	active	<button>View</button>
9	Jayalath company	Jayalath@gmail.com	helthcare	service	active	<button>View</button>

1-9 of 10 | < | >

## Other Users details

### Startup HUB

#### Dashboard

- Home
- StartUp Users
- Other Users

#### Investor Users

ID	Company Name ↓	Address	Investor NIC	Investment Area	Contact Number	Email Address
4	Sunil Traders	Gampaha	234494	Financial	3829284	sunil@gmail.com
1	Sankalpa Traders	33/5, Kirulapana, S...	981122335	Financial Investment	766552444	samith@gmail.com
7	Samith ta pissu	Saman road colombo	542462	Money	715579005	sajith@gmail.com
2	Ruwanpvt Ltd	Sri Lanka	458923567	Financial	118395233	ruwan@gmail.com
3	Nimal Traders	Katukurunda	4598325692	Financial	112574155	nimal@gmail.com

1-5 of 7 < >

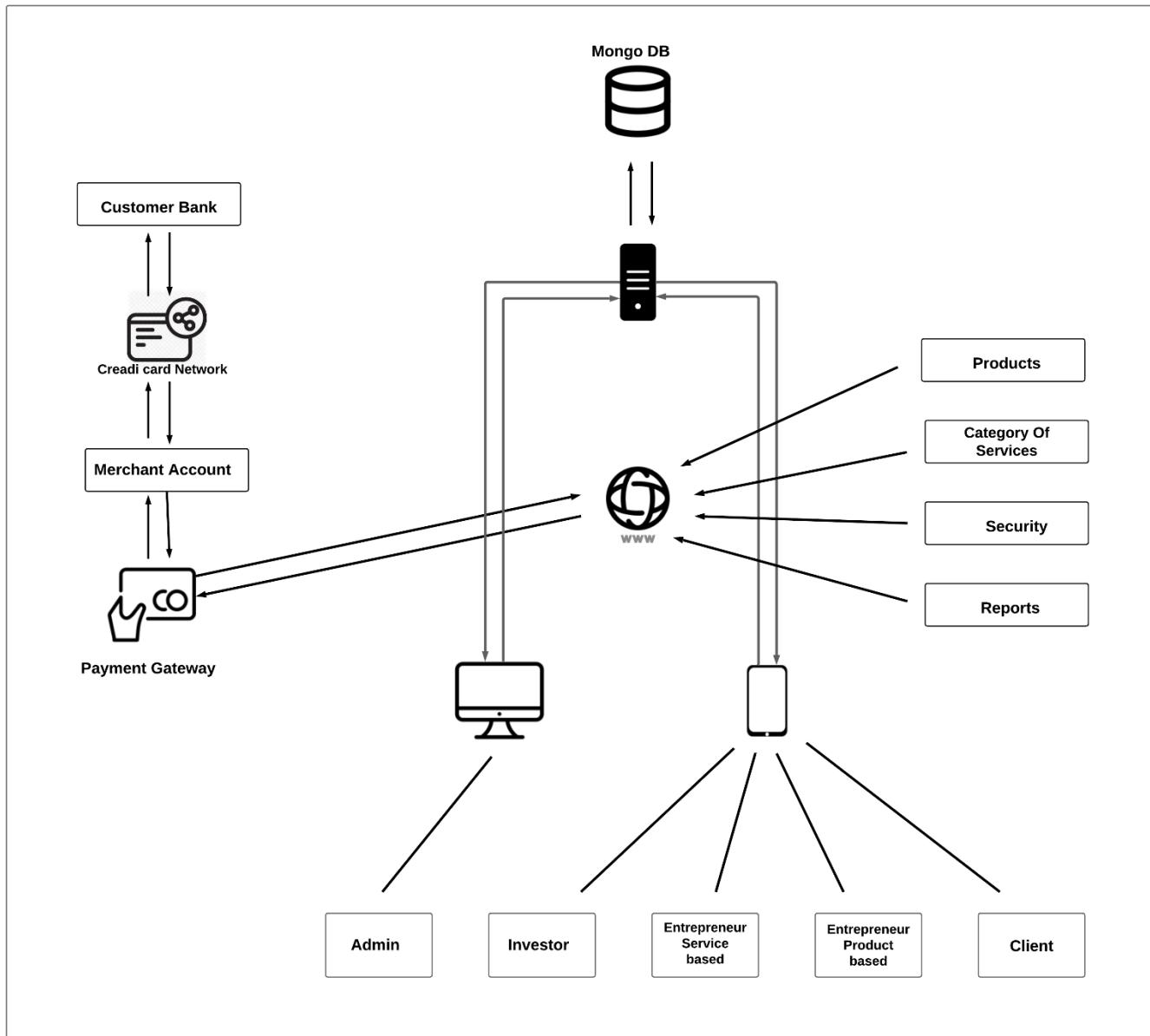
#### Client Users

ID	User Name	Email Address	User Type
1	Keshara	keshara@gmail.com	client
8	Nimal	nimal@gmail.com	client
9	Hiruna	hiruna@gmail.com	client
10	Kesh	kesh@gmail.com	client
11	Peter	pet@gmail.com	client

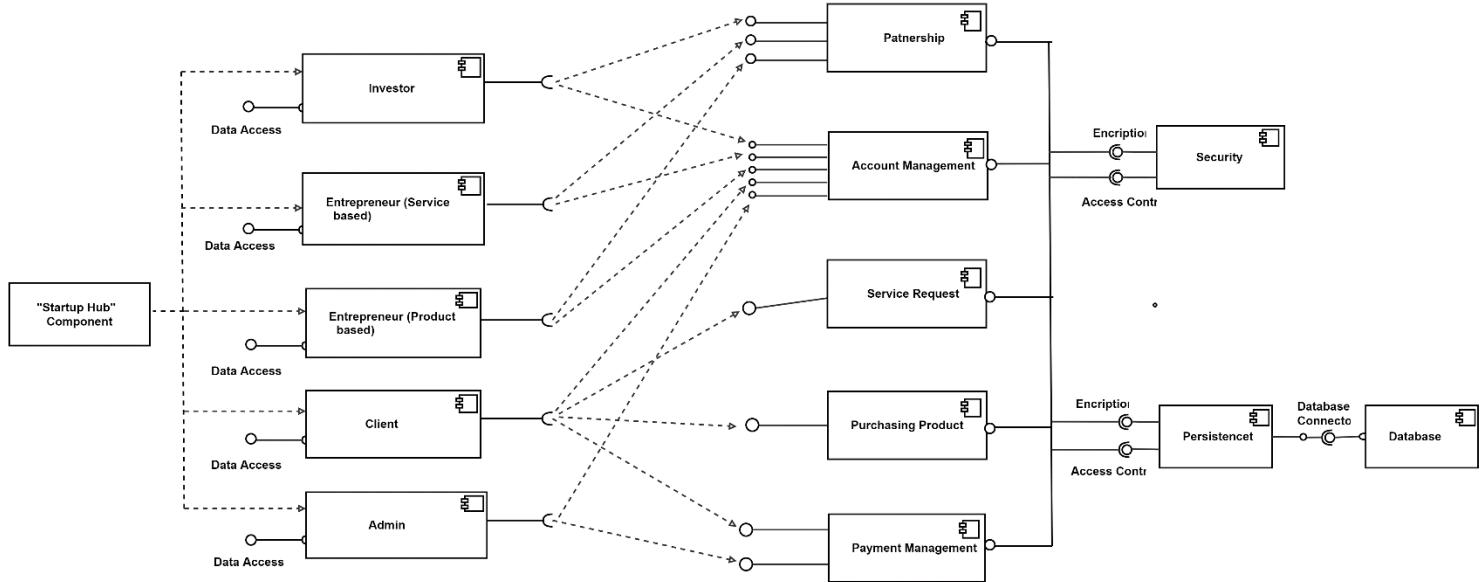
1-5 of 9 < >

## 1.3 Software Interfaces

### 1.3.1 System Architecture



### 1.3.2 Component Diagram

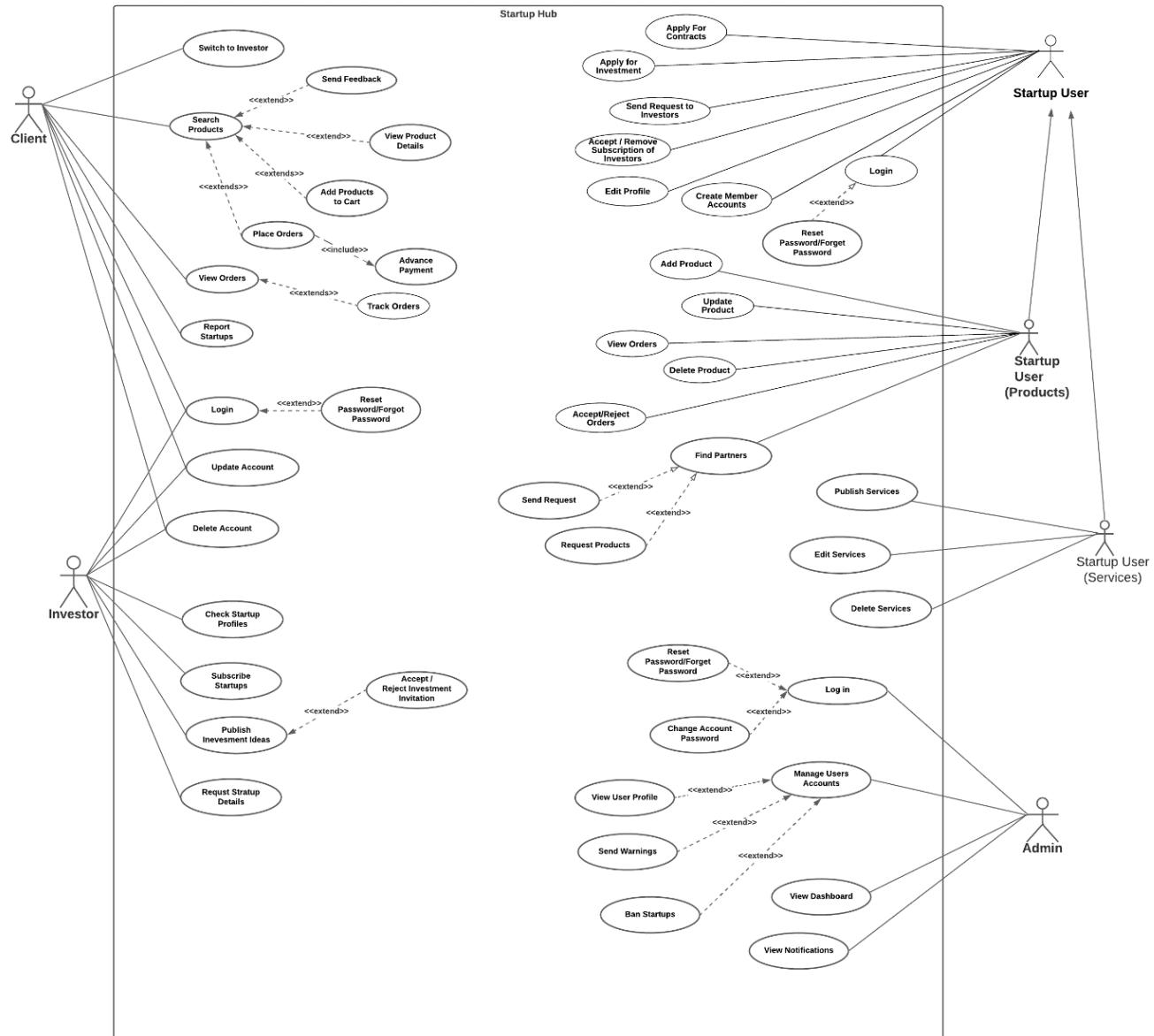


This section demonstrates the other software components (name and the version) including databases, tools and libraries which are required to develop Startup Hub and the purpose of using it.

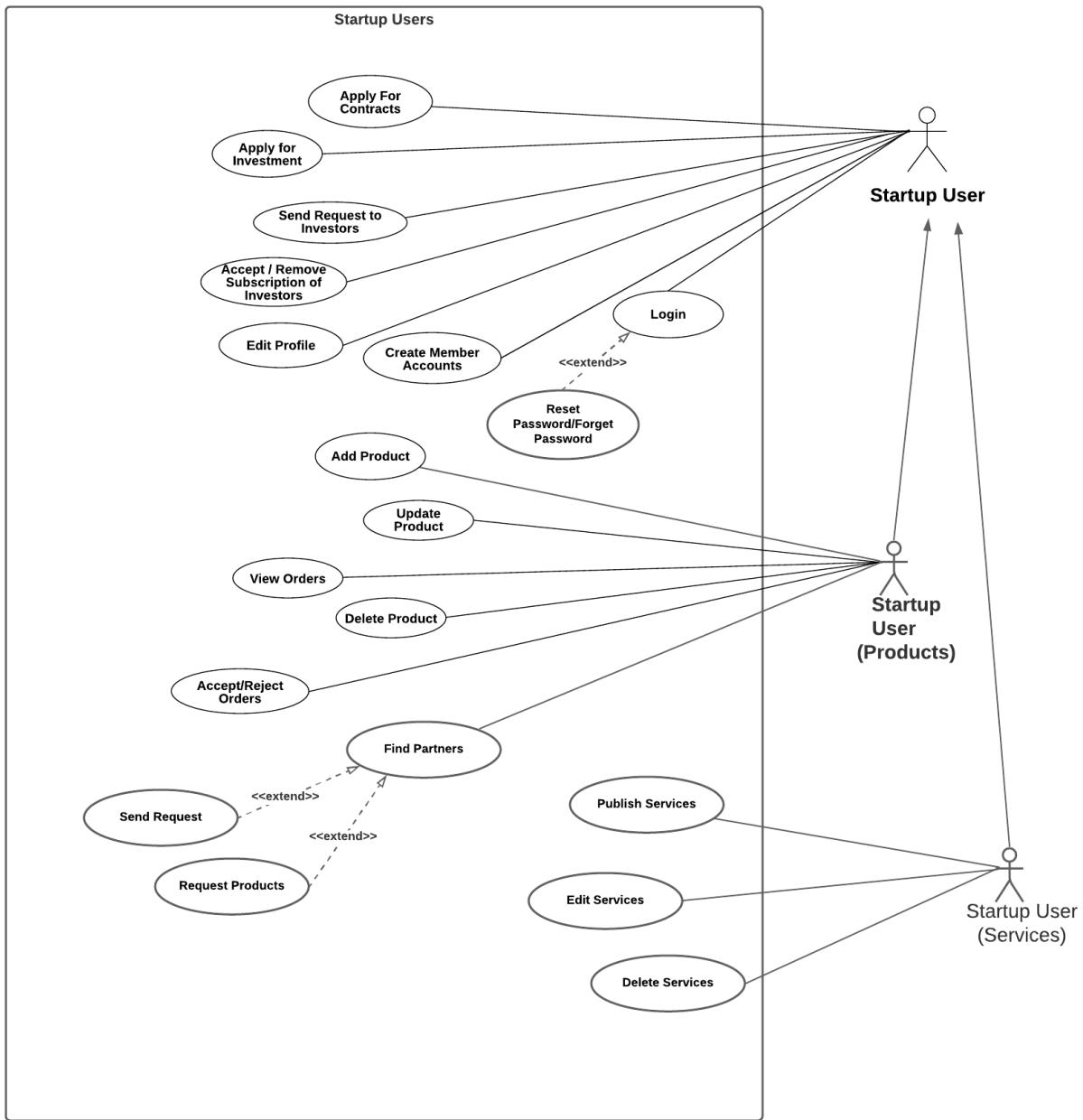
Software component	Version	Purpose
MongoDB Atlas	4.4.8	Used as the database
JSON web tokens	8.5.1	Authentication
Nodemailer	6.6.3	Send Emails
Bcrypt	5.0.1	Password Encryption
Stripe	API version : 2020-08-07	Payment Gateway
Cloudinary		Store Images

## 4 System Features

This section demonstrates Startup Hub's most prominent features and explains how they can be used and the results they will give back to the user.



## 4.1 Startup Users' Features



#### **4.1.1 Update Profile**

##### **4.1.1.1 Description and Priority**

Startup users can update their user profile in the startup hub mobile application. and reset password as well.

##### **4.1.1.2 Stimulus/Response Sequences**

1. Login with credentials as any startup user.
2. Go to Profile section and update button for update profile / click reset password button for reset the password.
3. Fill the required details and press the save button
4. Alert will be displayed saying that it was updated successfully.

##### **4.1.1.3 Use Case Narrative**

Use Case Name	Edit Profile
Summary	Startup members can edit their business profile.
Primary Actor	Startup Member (Any)
Precondition	Startups should be registered in the system.
Description	Startup members can update their business profiles by giving the latest details of their business.
Exceptions	The particular startup is not registered.
Post Condition	Updated details will be available in the system.

#### **4.1.2 Create Member Accounts**

##### **4.1.2.1 Description and Priority**

Administrators of the particular startup can create member accounts for their members.

##### **4.1.2.2 Stimulus/Response Sequences**

1. Login with credentials as admin startup user.
2. Go to the Members section and click the + button.
3. Fill the required details and press the create button
4. Alert will be displayed saying that the account was created successfully.
5. An email will be sent to the member with the initial login credentials.

##### **4.1.2.3 Use Case Narrative**

Use Case Name	Create member accounts
Summary	Admin of a startup can add members to the system.
Primary Actor	Startup Admin (Any)
Precondition	Startup must be registered Allocated number of accounts for a startup should not exceed.
Description	Admin of a startup can create member accounts and add their members to the system. Then they are able to access the system.
Exceptions	Allocated number of accounts for a startup is exceeded.
Post Condition	A member account has been created.

#### **4.1.3 View Investment Plan**

##### **4.1.3.1 Description and Priority**

Startup users can view the investment plans which are published by the investors/ compare investment plans of different investors.

##### **4.1.3.2 Stimulus/Response Sequences**

1. Login with credentials as any startup user.
2. Go to the Investor section.
3. Click the view plan button of the particular investor.
4. The plan will be displayed.

##### **4.1.3.3 Use Case Narrative**

Use Case Name	View Investment Plan
Summary	Startups can view investment plans that are published by investors.
Primary Actor	Startup Member (Any)
Precondition	-
Description	Startup users can view the investment plans which are published by the investors/ compare investment plans of different investors
Exceptions	Plan does not exist.
Post Condition	Plan will be displayed.

#### **4.1.4 Send Request to Investor**

##### **4.1.4.1 Description and Priority**

After comparing plans, startup users can send requests to the selected investors.

##### **4.1.4.2 Stimulus/Response Sequences**

1. Login with credentials as any startup user.
2. Go to the Investor section.
3. Click the send request button.
4. Alert will be displayed saying that the request has been sent .

##### **4.1.4.3 Use Case Narrative**

Use Case Name	Send request to the investors
Summary	Startups send request to the investors asking to invest on their business,
Primary Actor	Startup Member (Any)
Precondition	-
Description	Startups can request investments from investors by giving required details.
Exceptions	Required details are not completed
Post Condition	Investors can view the details of the startups that requested.

#### **4.1.5 Accept Subscriptions**

##### **4.1.5.1 Description and Priority**

Startup users can accept the request sent by the investors. After accepting, the investor will be able to see more details of the startup.

##### **4.1.5.2 Stimulus/Response Sequences**

1. Login with credentials as any startup user.
2. Go to the Investor section.
3. Click the accept request button.

##### **4.1.5.3 Use Case Narrative**

Use Case Name	Accept Subscriptions
---------------	----------------------

Summary	Startups can accept subscriptions of investors.
Primary Actor	Startup Member (Any)
Precondition	-
Description	Investors who need more information about a startup can subscribe to it. And if the particular startup agrees to share that information they can accept it or otherwise they can reject it.
Exceptions	-
Post Condition	<ul style="list-style-type: none"> <li>• If the subscription is accepted the investor can see more information about the particular startup.</li> <li>• If the subscription is rejected the investor no longer able to see the information about the startup</li> </ul>

#### **4.1.6 Update Business Profile**

##### **4.1.6.1 Description and Priority**

Startup users can update the business profile of the startup / set location of the startup / pay annual fee.

##### **4.1.6.2 Stimulus/Response Sequences**

1. Login with credentials as any startup user.
2. Go to the Business Profile section.
3. Click the update button to update profile / click the set location button to set up the location / click the pay here button to pay annual fee.

##### **4.1.6.3 Use Case Narrative**

Use Case Name	Edit Business Profile
Summary	Startup members can edit their business profile.
Primary Actor	Startup Member (Any)
Precondition	Startups should be registered in the system.
Description	Startup users can update the business profile of the startup / set location of the startup / pay annual fee
Exceptions	The particular startup is not registered.
Post Condition	Updated details will be available in the system.

## **4.2 Product based Startup Users' Features**

### **4.2.1 Add Products**

#### **4.2.1.1 Description and Priority**

Users of the product-based startups can publish their products in the startup hub mobile application. and those products will be displayed in the startup hub clients' app.

#### **4.2.1.2 Stimulus/Response Sequences**

5. Login with credentials as a product-based startup.
6. Go to Product section and click + icon
7. Fill the required details and press the create button
8. Alert will be displayed saying the product has been created successfully.

#### **4.2.1.3 Use Case Narrative**

Use Case Name	Add Product
Summary	Startup members can publish their products on their mini shop.
Primary Actor	Startup Member (Products)
Precondition	Particular startup must be registered and the startup member must be logged in to the system.
Description	Any member of a particular startup can publish their products by giving details of the product on their mini shop. Then customers are able to see those products and order them.
Exceptions	<ul style="list-style-type: none"><li>• Required details are not completed</li><li>• Product is already added</li></ul>
Post Condition	New product will be available in their mini shop.

### **4.2.2 Update Products**

#### **4.2.2.1 Description and Priority**

Users of the product-based startups can update their products in the startup hub mobile application. And the updated details will be visible in the startup hub clients' app.

#### **4.2.2.2 Stimulus/Response Sequences**

1. Login with credentials as product based startup.
2. Go to the Product section and click on a product which you want to update.
3. Then press the update button.

4. Fill the required details and press the save button.
5. Alert will be displayed saying that the product has been updated successfully.

#### 4.2.2.3 Use Case Narrative

Use Case Name	Update Product
Summary	Startup members can update their products that were previously added to their mini shop.
Primary Actor	Startup Member (Products)
Precondition	Products should exist in their mini shop given by the system.
Description	Any member of a particular startup can view and update their products on their mini shop by giving updated details.
Exceptions	The product does not exist in their mini shop.
Post Condition	Updated details will be available in their mini shop.

### 4.2.3 Delete Products

#### 4.2.3.1 Description and Priority

Users of the product-based startups can delete their products which they no longer produce from the startup hub mobile application. And the deleted product will be removed from the startup hub clients' app.

#### 4.2.3.2 Stimulus/Response Sequences

1. Login with credentials as a product-based startup.
2. Go to the Product section and click on a product which you want to delete.
3. Then press the delete button.
4. A confirmation message will be popped up and then press ok.
5. Alert will be displayed saying that the product has been deleted successfully.

#### 4.2.3.3 Use Case Narrative

Use Case Name	Delete Product
Summary	Startup members can delete their products that were previously added to their mini shop.
Primary Actor	Startup Member (Products)
Precondition	Products should exist in their mini shop given by the system.
Description	Any member of a particular startup can delete their products on

	their mini shop which are no longer produced by them.
Exceptions	The product does not exist in their mini shop.
Post Condition	The product is no longer available in their mini shop.

#### **4.2.4 Start Production**

##### **4.2.4.1 Description and Priority**

Once an order is received, users can start the production of that order. And the state of the order will be changed and it will be visible to the client.

##### **4.2.4.2 Stimulus/Response Sequences**

1. Login with credentials as a product-based startup.
2. Go to the Orders section and click on an order which you want to start.
3. A confirmation message will be popped up and then press ok.
4. State of the order will be changed.

##### **4.2.4.3 Use Case Narrative**

Use Case Name	Start Production
Summary	Startup members can view the orders that they received and start production.
Primary Actor	Startup Member (Products)
Precondition	The order should exist in the system.
Description	Startup members can view the orders that are placed by their customers by going to the orders tab and start production
Exceptions	The order does not exist in the system.
Post Condition	State of the order will be changed.

#### **4.2.5 Finish Order**

##### **4.2.5.1 Description and Priority**

Once an order is collected by the customer, users can finish the order. And the state of the order will be changed and it will be visible to the client.

##### **4.2.5.2 Stimulus/Response Sequences**

1. Login with credentials as a product-based startup.

2. Go to the Orders section and click on an order which you want to finish.
3. A confirmation message will be popped up and then press ok.
4. State of the order will be changed.

#### **4.2.5.3 Use Case Narrative**

Use Case Name	Finish Order
Summary	Startup members can finish the orders that they received.
Primary Actor	Startup Member (Products)
Precondition	The order should exist in the system.
Description	Startup members can finish the orders once they are collected by the customers by going to the orders tab.
Exceptions	The order does not exist in the system.
Post Condition	Order will be accepted / Rejected.

#### **4.2.6 Find Partners**

##### **4.2.6.1 Description and Priority**

Product based startups can make partnerships with other startups by sending partnership requests in order to get materials for their businesses.

##### **4.2.6.2 Stimulus/Response Sequences**

1. Login with credentials as a product-based startup.
2. Go to the Partners section and select a partner.
3. Press send request / accept request button.
4. The startup will be visible in the partners tab.

##### **4.2.6.3 Use Case Narrative**

Use Case Name	Find Partners
Summary	A startup can make a partnership with another startup.
Primary Actor	Startup Member (Products)
Precondition	Both startups must be registered.
Description	A startup member can search another startup by name or by product. Then the member can send a request to the startup to become a partner.

Exceptions	Either one of both startups are not registered.
Post Condition	The partnership will be established and allows direct communication between both startups.

## 4.3 Service based Startup Users' Features

### 4.3.1 Publish Services

#### 4.3.1.1 Description and Priority

Users of the service-based startups can publish their services in the startup hub mobile application. and those services will be displayed in the startup hub clients' app.

#### 4.3.1.2 Stimulus/Response Sequences

1. Login with credentials as a service-based startup.
2. Go to the Service section and click the + button.
3. Fill the required details and press the create button
4. Alert will be displayed saying the product has been created successfully.

#### 4.3.1.3 Use Case Narrative

Use Case Name	Publish Services
Summary	Startup members can publish their services on their business profile.
Primary Actor	Startup Member (Services)
Precondition	Particular startup must be registered and the startup member must be logged in to the system.
Description	Any member of a particular startup can publish their services by giving details of the service on their startup business profile. Then customers are able to see those services and request them.
Exceptions	<ul style="list-style-type: none"> <li>• Required details are not completed</li> <li>• Service is already added</li> </ul>
Post Condition	New service will be available in their business profile.

### 4.3.2 Update Services

#### 4.3.2.1 Description and Priority

Users of the service-based startups can update their services in the startup hub mobile application. And the updated details will be visible in the startup hub clients' app.

#### **4.3.2.2 Stimulus/Response Sequences**

1. Login with credentials as a service-based startup.
2. Go to the Service section and click on a service which you want to update.
3. Then press the update button.
4. Fill the required details and press the save button.
5. Alert will be displayed saying that the service has been updated successfully.

#### **4.3.2.3 Use Case Narrative**

Use Case Name	Edit Services
Summary	Startup members can update their services that were previously added to their business profile.
Primary Actor	Startup Member (Services)
Precondition	Services should exist in their business profile given by the system.
Description	Any member of a particular startup can view and update their services on their business profile by giving updated details.
Exceptions	The service does not exist in their business profile.
Post Condition	Updated details will be available in their business profile.

### **4.3.3 Delete Services**

#### **4.3.3.1 Description and Priority**

Users of the service-based startups can delete their service which they no longer provide from the startup hub mobile application. And the deleted service will be removed from the startup hub clients' app.

#### **4.3.3.2 Stimulus/Response Sequences**

1. Login with credentials as a service-based startup.
2. Go to the Service section and click on a service which you want to delete.
3. Then press the delete button.
4. A confirmation message will be popped up and then press ok.
5. Alert will be displayed saying that the service has been deleted successfully.

#### **4.3.3.3 Use Case Narrative**

Use Case Name	Delete Services
Summary	Startup members can delete their services that were previously added to their business profile.
Primary Actor	Startup Member (Services)
Precondition	Service should exist in their business profile given by the system.
Description	Any member of a particular startup can delete their services on their business profile which are no longer provided by them.
Exceptions	The service does not exist in their business profile..
Post Condition	The service is no longer available in their business profile.

#### **4.3.4 Add Package**

##### **4.3.4.1 Description and Priority**

Users of the service-based startups can add packages to their services in the startup hub mobile application. and those packages will be displayed in the startup hub clients' app.

##### **4.3.4.2 Stimulus/Response Sequences**

1. Login with credentials as a service-based startup.
2. Go to the Service section and click on a service which you want to add a package.
3. Click the + button.
4. Fill the required details and press the create button
5. Alert will be displayed saying the product has been created successfully.

##### **4.3.4.3 Use Case Narrative**

Use Case Name	Add Package
Summary	Startup members can add packages to their services.
Primary Actor	Startup Member (Services)
Precondition	Particular startup must be registered and the startup member must be logged in to the system.
Description	Any member of a particular startup can add packages to their services by giving details of the package on their startup business profile. Then customers are able to see those packages and request them.

Exceptions	<ul style="list-style-type: none"> <li>Required details are not completed</li> <li>Package is already added</li> </ul>
Post Condition	New package will be available in their business profile.

### 4.3.5 Update Package

#### 4.3.5.1 Description and Priority

Users of the service-based startups can update their packages in the startup hub mobile application. And the updated details will be visible in the startup hub clients' app.

#### 4.3.5.2 Stimulus/Response Sequences

1. Login with credentials as a service-based startup.
2. Go to the Service section and click on a service which you want to update package.
3. Then press the update button of the package.
4. Fill the required details and press the save button.
5. Alert will be displayed saying that the package has been updated successfully.

#### 4.3.5.3 Use Case Narrative

Use Case Name	Edit Package
Summary	Startup members can update their packages that were previously added to their business profile.
Primary Actor	Startup Member (Services)
Precondition	Services should exist in their business profile given by the system.
Description	Any member of a particular startup can view and update their packages on their business profile by giving updated details.
Exceptions	The service does not exist in their business profile.
Post Condition	Updated details will be available in their business profile.

#### **4.3.6 Delete Package**

##### **4.3.6.1 Description and Priority**

Users of the service-based startups can delete their packages which they no longer provide from the startup hub mobile application. And the deleted package will be removed from the startup hub clients' app.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a service-based startup.
2. Go to the Service section and click on a service which you want to delete the package.
3. Then press the delete button of the package.
4. A confirmation message will be popped up and then press ok.
5. Alert will be displayed saying that the package has been deleted successfully.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Delete Package
Summary	Startup members can delete their packages that were previously added to their business profile.
Primary Actor	Startup Member (Services)
Precondition	Service should exist in their business profile given by the system.
Description	Any member of a particular startup can delete their package on their business profile which is no longer provided by them.
Exceptions	The package does not exist in their business profile..
Post Condition	The package is no longer available in their business profile.

#### 4.4 Clients' Features



#### **4.4.1 Search Products / Services**

##### **4.3.6.1 Description and Priority**

Clients can search products and services, filter them by rating, price and category.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a client.
2. Add filters or enter a keyword.
3. Filtered / searched product or service will be displayed.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Search Products
Summary	Client can search products
Primary Actor	Client
Precondition	Can't buy products without sign up
Description	Client can search any product and each product details
Exceptions	Doesn't have a search product. Display alert
Post Condition	-

#### **4.4.2 Place Orders**

##### **4.3.6.1 Description and Priority**

Clients can place orders by buying products and the order will be sent to the particular startup.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a client.
2. Select a product and set quantity.
3. Click the buy button.
4. Enter the card details and pay.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Placed orders
Summary	Client can placed orders
Primary Actor	Client
Precondition	-

Description	Select one or more products and then the client can place the order. Payments are given by online method
Exceptions	-
Post Condition	Client can't delete order after placing

#### **4.4.3 Place Jobs**

##### **4.3.6.1 Description and Priority**

Clients can place jobs by requesting a service and the job will be sent to the particular startup.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a client.
2. Select a service and a package of that service.
3. Give a description.
4. Click the submit button.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Place Jobs
Summary	Client can place jobs by requesting services.
Primary Actor	Client
Precondition	-
Description	Select a service and a package and then the client can place the job. Payments are done once the job is finished
Exceptions	-
Post Condition	Client can't delete job after placing

#### **4.4.4 Rate Products**

##### **4.3.6.1 Description and Priority**

Clients can rate products by giving feedback and a rating.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a client.
2. Select a product and go to reviews.

3. Give a comment and a rating from 1 to 5.
4. Click the submit button.

#### **4.3.6.3 Use Case Narrative**

Use Case Name	Rate Product
Summary	Client can add feedback to any products
Primary Actor	Client
Precondition	First the client must have bought that product
Description	Client can add feedback about his experience of the product Clients can give a rate.
Exceptions	-
Post Condition	It can see to the startup user

#### **4.4.5 View Orders/ Jobs**

##### **4.3.6.1 Description and Priority**

Clients can view the status of the orders that he placed and the progress of the jobs that he placed.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a client.
2. Go to the Orders / Jobs section
3. The status of the orders / jobs will be displayed

#### **4.3.6.3 Use Case Narrative**

Use Case Name	View Orders/ Jobs
Summary	Client can view order status / job status
Primary Actor	Client
Precondition	Client must place order/job previously
Description	Client can view orders/jobs and view each order/job details
Exceptions	-
Post Condition	-

#### **4.4.6 Report Startups**

##### **4.3.6.1 Description and Priority**

Clients can report a startup if the products/ services are not received / quality issues / late delivery.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as a client.
2. Go to the Orders / Jobs section
3. Click the report button of the order/ job
4. Enter the reason and click submit button

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Report Startup
Summary	Client can report startup
Primary Actor	Client
Precondition	-
Description	Client can report startup on any cheated or doing some unethical things
Exceptions	-
Post Condition	That report must be true and accurate. Decisions are made by the admin after a thorough inquire

#### **4.4.7 Update Profile**

##### **4.3.6.1 Description and Priority**

Clients can update their profiles / reset passwords.

##### **4.3.6.2 Stimulus/Response Sequences**

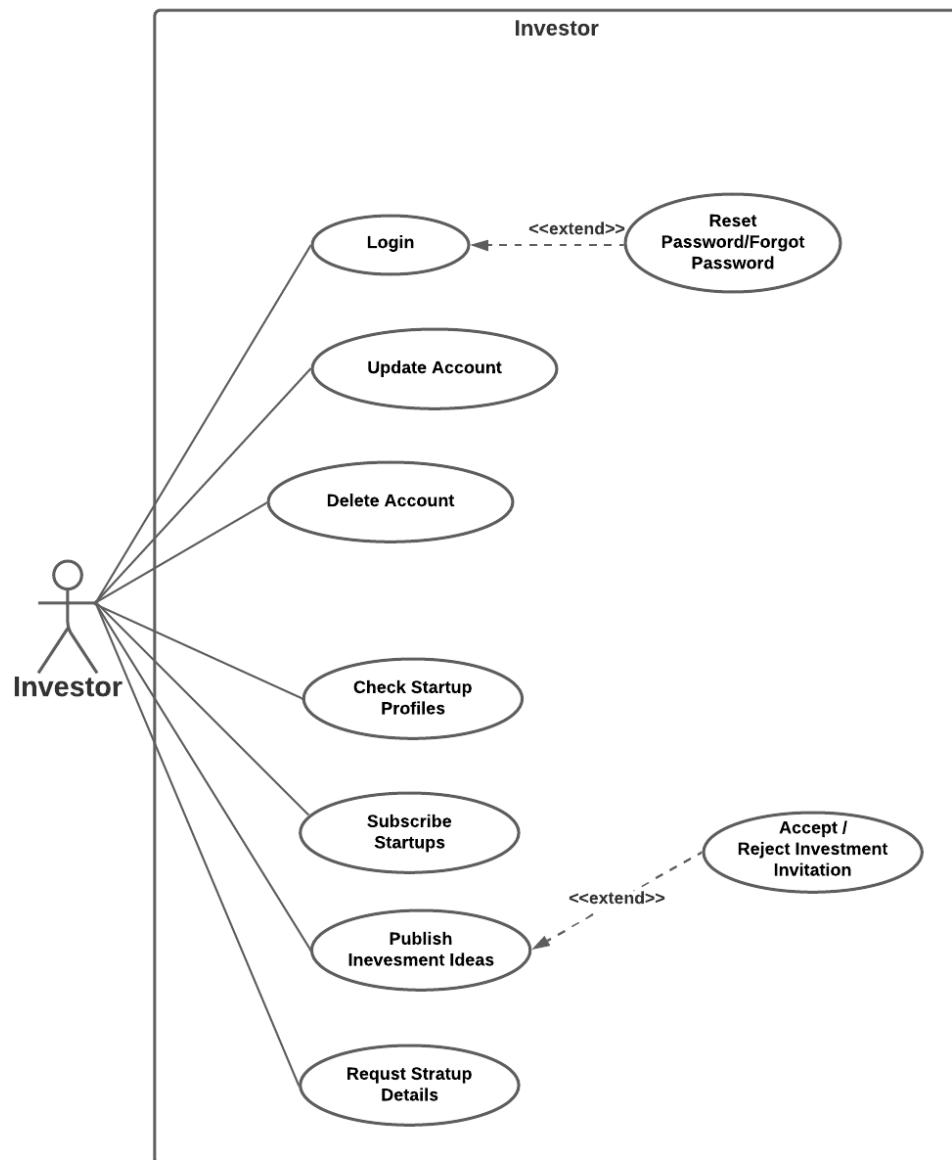
1. Login with credentials as a client.
2. Go to the Profile section
3. Click the reset password button.
4. Give relevant details and click the reset button.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Edit Profile
Summary	Clients can edit their profile/ reset password.

Primary Actor	Client
Precondition	Clients should be registered in the system.
Description	Client can update their profiles by giving the required details.
Exceptions	The particular client is not registered.
Post Condition	Updated details will be available in the system.

#### 4.5 Investors' Features



#### **4.5.1 Publish Plan**

##### **4.5.6.1 Description and Priority**

Investors can publish their investment plan. And that is visible to the startups. One investor can publish only one plan.

##### **4.5.6.2 Stimulus/Response Sequences**

1. Login with credentials as an investor.
2. Go to the Profile section
3. Click the create plan button.
4. Give relevant details and click the submit button.

##### **4.5.6.3 Use Case Narrative**

Use Case Name	Publish Investment Plans
Summary	Investors can publish their investment plans
Primary Actor	Investor
Precondition	-
Description	Investors can publish their investment plans on the system by giving relevant details
Exceptions	Required details are incomplete
Post Condition	Published investment plans will be available and interested startups can see it.

#### **4.5.2 Update Plan**

##### **4.5.6.1 Description and Priority**

Investors can update their investment plan with new details. And that is visible to the startups.

##### **4.5.6.2 Stimulus/Response Sequences**

1. Login with credentials as an investor.
2. Go to the Profile section
3. Click the update plan button.
4. Give relevant details and click the submit button.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Update Investment Ideas
---------------	-------------------------

Summary	Investors can update their investment plans
Primary Actor	Investor
Precondition	-
Description	Investors can update their investment plans on the system by giving relevant details
Exceptions	Required details are incomplete
Post Condition	Updated investment plans will be available and interested startups will be notified.

#### **4.5.3 Send Request**

##### **4.3.6.1 Description and Priority**

Investors can send requests to the startups which they are interested in.

##### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as an investor.
2. Go to the Profile section
3. Click the send request button of the startup.

##### **4.3.6.3 Use Case Narrative**

Use Case Name	Send request to the startups
Summary	Investors send request to the startups which they are interested in
Primary Actor	Investor
Precondition	-
Description	Investors can send requests to the startups which they are interested in.
Exceptions	Startup does not exist.
Post Condition	Startup can see the request sent by the investor.

#### **4.5.4 Subscribe Startups**

##### **4.3.6.1 Description and Priority**

Investors can subscribe to startups to get more details on that startup before investing in it.

#### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as an investor.
2. Go to the Request section
3. Click the subscribe button.

#### **4.3.6.3 Use Case Narrative**

Use Case Name	Subscribe startups
Summary	Investors can subscribe to startups to see more details of the startup.
Primary Actor	Investor
Precondition	-
Description	Investors can subscribe to startups to see more details of the startup before investing.
Exceptions	-
Post Condition	If the startup accepts the subscription the investor can see a detailed summary of the startup.

#### **4.5.5 Publish Agreement**

##### **4.3.6.1 Description and Priority**

Investors can publish the agreement after investing in a particular startup. And the income of the investor will be calculated based on the agreements.

#### **4.3.6.2 Stimulus/Response Sequences**

1. Login with credentials as an investor.
2. Go to the Subscribed startups section in the statistics tab.
3. Select a startup and click the agreement button.
4. Fill required fields.
5. Click the save button.

#### **4.3.6.3 Use Case Narrative**

Use Case Name	Publish Agreement
Summary	Investors can publish agreement after investing
Primary Actor	Investor
Precondition	Startup must be subscribed

Description	Investors can publish the agreement after investing in a particular startup. And the income of the investor will be calculated based on the agreements.
Exceptions	Startup is not subscribed by investor.
Post Condition	Published agreement will be available and the income of the investor will be calculated based on it.

#### **4.5.6 Update Profile**

##### **4.5.6.1 Description and Priority**

Investors can update their profiles / reset passwords.

##### **4.5.6.2 Stimulus/Response Sequences**

5. Login with credentials as an investor.
6. Go to the Profile section
7. Click the reset password/update profile button.
8. Give relevant details and click the submit button.

##### **4.5.6.3 Use Case Narrative**

Use Case Name	Edit Profile
Summary	Investors can edit their profile/ reset password.
Primary Actor	Investor
Precondition	Investors should be registered in the system.
Description	Investors can update their profiles by giving the required details.
Exceptions	The particular investor is not registered.
Post Condition	Updated details will be available in the system.

## 4.6 System Admin's Features



#### 4.6.1 Admin Dashboard

##### 4.6.1.1 Usage Count

Admin can see the current usage of system users

##### 4.6.1.2 Annual Income

Admin can get an idea for annual income distribution of current year

##### 4.6.1.3 Client Complains

1. Admin can see recent submitted Complains
2. Click View button and can see more information

##### 4.6.1.4 Pending Payment List

Admin can see pending annual fee payment list

##### 4.6.1.5 Use Case Narrative

Use Case Name	View Dashboard
Summary	Admin can view a overall dashboard
Primary Actor	System Admin
Precondition	-
Description	Admin can view a overall dashboard including charts
Exceptions	-
Post Condition	Dashboard will be displayed

#### 4.6.2 View User Lists

##### 4.6.2.1 Client user list

Admin can view all clients and filter any columns

##### 4.6.2.2 Investor user list

Admin can view all Investors and filter any columns

##### 4.6.2.3 Startup user list

Admin can view all Startup users and filter any columns

##### 4.6.2.4 Use Case Narrative

Use Case Name	View User Lists
Summary	Administration can view all users lists
Primary Actor	System Admin
Precondition	Corresponding account should exist in the system

Description	Administration can view all the users with useful details
Exceptions	Corresponding account does not exist in the system
Post Condition	Corresponding users will be displayed

#### 4.6.3 View Startup User Profile

##### 4.6.3.1 General information

Admin can view Startup user information

##### 4.6.3.2 Payment Details

Annual fee Details of Startup user can view for startup user

##### 4.6.3.3 Client complaints list

Admin can view each Startup complaints in this table

##### 4.6.3.4 Admin Warning

Admin can view each Startup user sent warning list

##### 4.6.3.5 Startup member list

admin can view all the members in Startup

##### 4.6.3.6 Use Case Narrative

Use Case Name	View User Profiles
Summary	Administration can view all account details
Primary Actor	System Admin
Precondition	Corresponding account should exist in the system
Description	Administration can view any account to inspect unethical activities.
Exceptions	Corresponding account does not exist in the system
Post Condition	Corresponding account details will be displayed

#### 4.6.4 Send Warnings

##### 4.6.4.1 warning form

1. admin can choose warning type and category
2. Type any relevant description
3. Click submit button

##### 4.6.4.2 Use Case Narrative

Use Case Name	Send Warnings
Summary	If any user attempts to do an unethical activity administration can send a warning.
Primary Actor	System Admin
Precondition	Unethical / unauthorized action occurs and it has been reported.
Description	If any user attempts to do an unethical activity others can report such activities then administration can send a warning to the particular person.
Exceptions	-
Post Condition	Warning message will be displayed to the corresponding user

#### 4.6.5 **Ban Account**

##### 4.6.5.1 **Ban Option**

Admin can Ban Startup users

##### 4.6.5.2 **Use Case Narrative**

Use Case Name	Ban Accounts
Summary	If an account is being reported continuously admin can ban that account
Primary Actor	System Admin
Precondition	Corresponding accounts should be reported by others continuously.
Description	If any user does unethical activities continuously and is reported continuously, the administration has the authority to ban the account.
Exceptions	-
Post Condition	The account will be banned.

## **5 Other Nonfunctional Requirements**

### **5.1 Performance Requirements**

To improve the device performance of the proposed system, we are using the react native mobile application framework because it supports both android and iOS devices. Develop system to be immediately available once activated, so we are using the mongo DB because it can distribute across two or more data centers and lowers the amounts of bytes in an image so give validated image size to the user, when they are uploading the images to the system. Develop the system UI in user-friendly according to the UI/UX principles, and for the understanding and the use of the user we will give guideline for their help. We are keeping a native database will ensure, even when the server is down, that data can be safely stored. Since we are using MongoDB Atlas, it provides a Replica set with three nodes which will increase the performance.

### **5.2 Security Requirements**

We used the best encryption tools and techniques like using validated required fields and save password in an encrypted manner. We are not exposing detail of the users to outsiders of the app and stored the data in secure way for secure the users personal data. We improved the proper session handling and use tokens to manage user sessions more productively. Design our software, that it only accepts strong alphanumeric passwords that can be renewed for improve the authentication of the system. While building the app, review the code regularly and check the validation part and test the codes. Since we are using NoSQL, direct injection is not possible, however there is a possibility to inject malicious input. To prevent that we will validate all user inputs.

### **5.3 Software Quality Attributes**

#### **5.3.1 Availability**

Startup Hub is available for both android and iOS users. And our system is available 24 hour. If there is any maintenance happening, we will inform the users.

#### **5.3.2 Usability**

System is support for the both android and IOS because we are using react. And also, we design our system in a user-friendly manner with different designs with clean and clear and multiple users can easily identify the accounts, because we are creating accounts with different designs. And we are planning to have user testing to get users' feedback.

### **5.3.3 Testability**

We are planning to conduct different testing methods for our system like user testing. And also, we are developing our system module wise. Because of that it is easy to conduct the testing for the system.

### **5.3.4 Maintainability**

We are using clean, readable code which can easily be understood and we will use comments to identify the source codes. So, code can easily change and be readable. And we develop projects module wise that will also help to increase the maintainability of the system.

