

# Flutter app: SimplyFund

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## Overview

SimplyFund is a revolutionary Flutter mobile application designed to mediate between banks and users, providing seamless access to loans. This user-friendly app aims to simplify the loan application process and bridge the gap between borrowers and lenders.

With cutting-edge technology and a user-centric approach, SimplyFund empowers individuals to secure loans swiftly and efficiently with better rates of interest.

## Technologies Used

1. Flutter (Frontend)
2. NodeJS (Backend)
3. MongoDB (Database)

## Flowchart

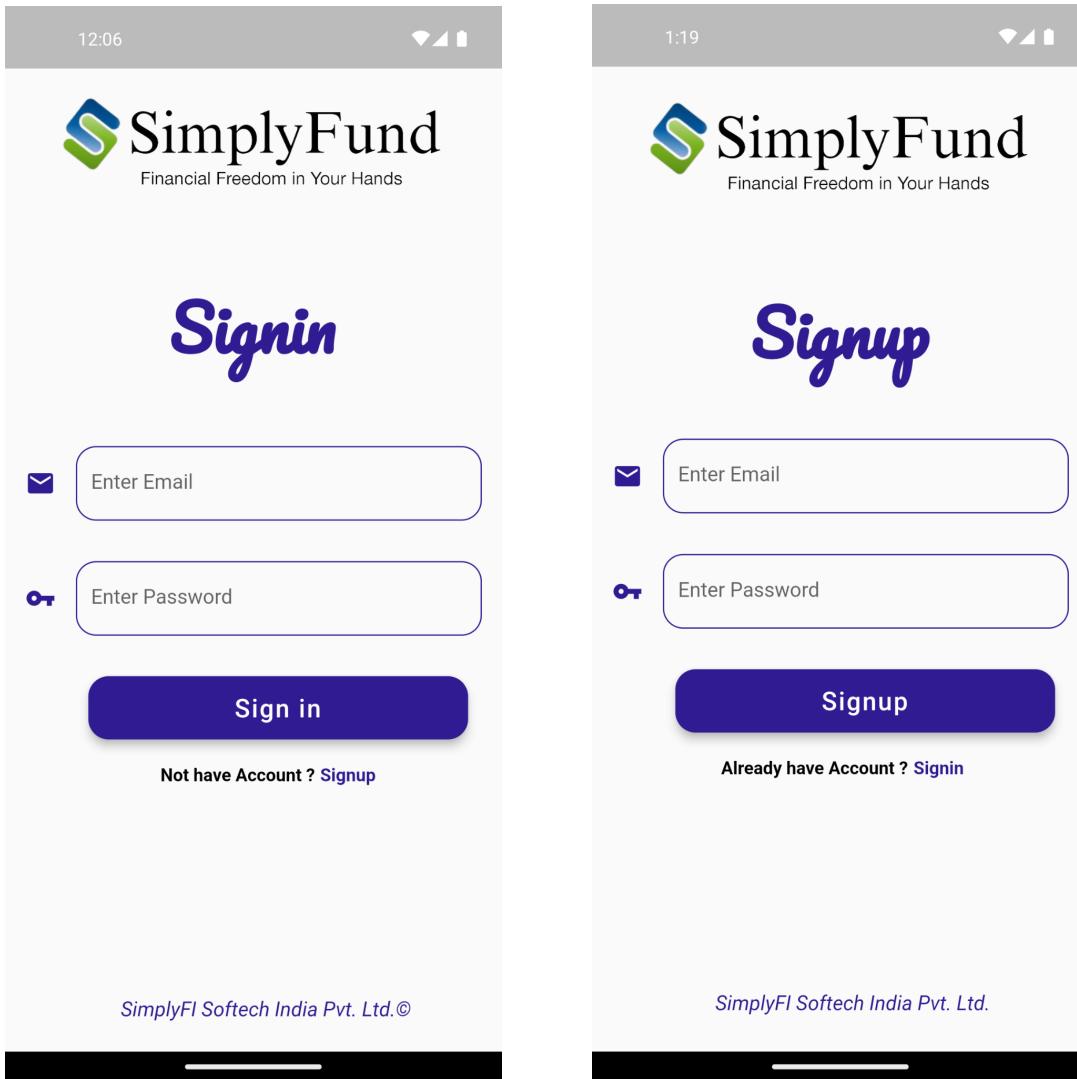


## UI Pages

1. Splash screen - 3 seconds



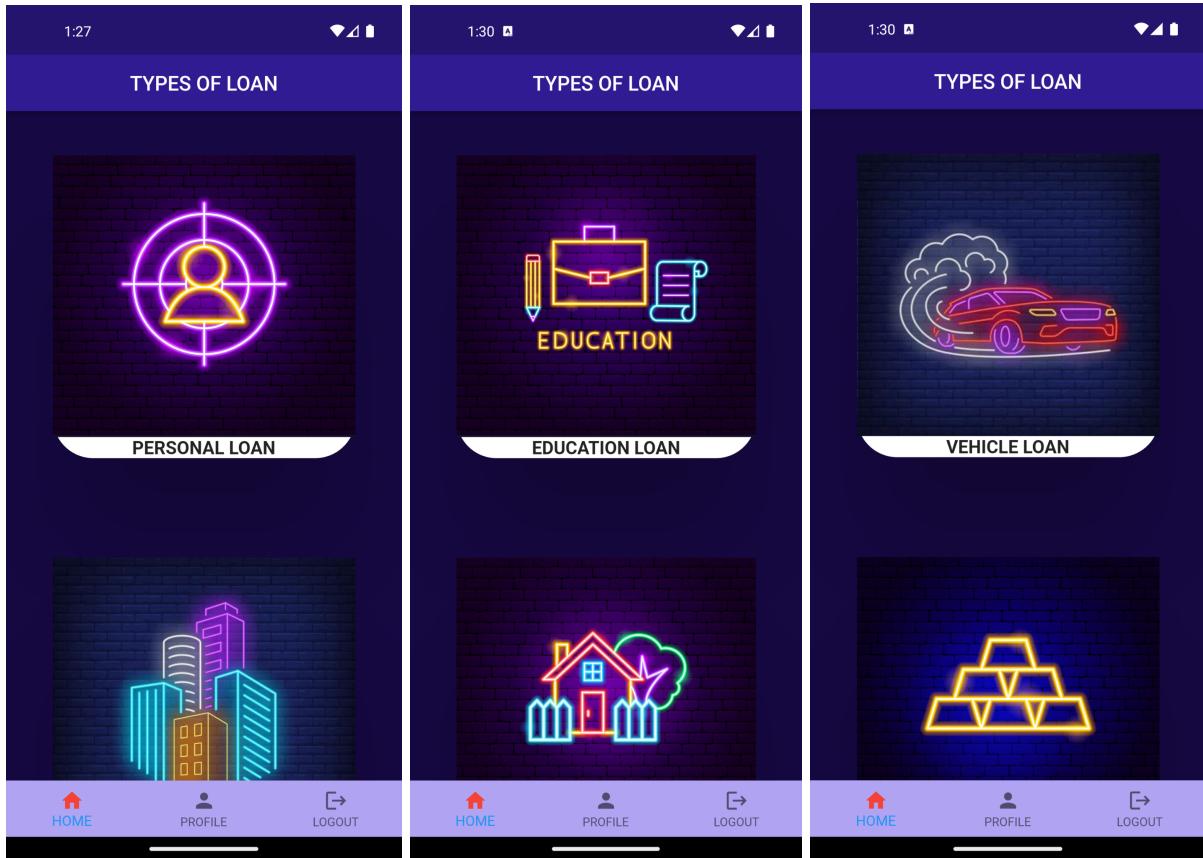
## 2. Authentication pages



### Validations:

- Fields cannot be empty
- Password should be minimum of 6 characters
- Email should have a domain name
- Email is made primary key so that it cannot have multiple email ids with same name
- Sign in works only if the user details matches the database

### 3. Types of loan page



6 types of Loans are done:

- 1) Personal loan
- 2) Business loan
- 3) Education loan
- 4) House loan
- 5) Vehicle loan
- 6) Gold loan

#### 4. Loan form details

The image displays two side-by-side screenshots of a mobile application interface. Both screens have a dark blue header bar at the top.

**Left Screen (User Details):**

- Header: "USER DETAILS" with a back arrow icon.
- Fields:
  - Name: Text input field.
  - Phone Number: Text input field.
  - PAN Card Number: Text input field.
  - Aadhaar Card Number: Text input field.
  - Gender: A dropdown menu with a visible arrow icon.
  - Occupation: A dropdown menu with a visible arrow icon.
  - Income: Text input field.
- Buttons: A large blue "Submit" button at the bottom.

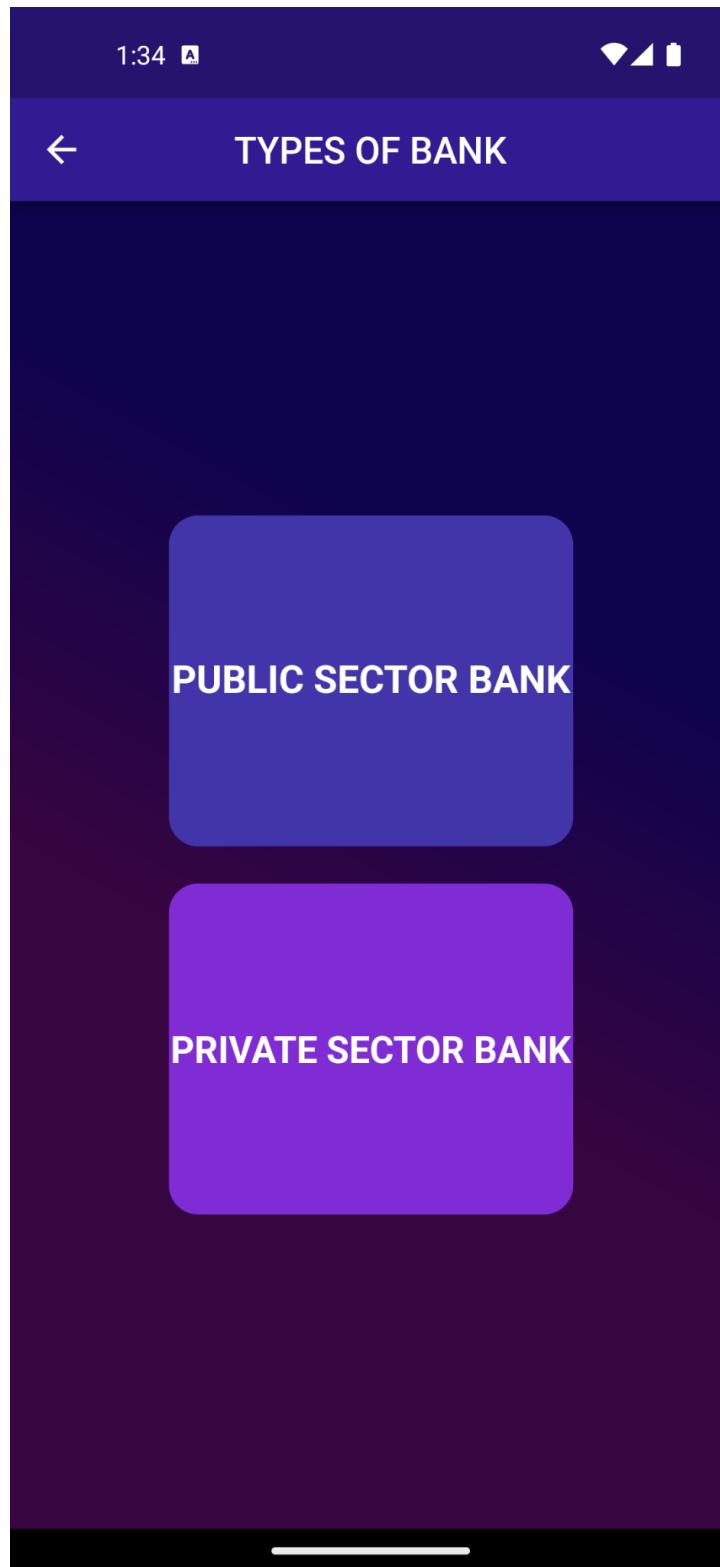
**Right Screen (Vehicle Loan Details):**

- Header: "VEHICLE LOAN DETAILS" with a back arrow icon.
- Fields:
  - Name: Text input field.
  - Phone Number: Text input field.
  - PAN Card Number: Text input field.
  - Aadhaar Card Number: Text input field.
  - Gender: A dropdown menu with a visible arrow icon.
  - Occupation: A dropdown menu with a visible arrow icon.
  - vehicletype: A dropdown menu with a visible arrow icon.
  - Model: Text input field.
  - Income: Text input field.
- Buttons: A large blue "Submit" button at the bottom.

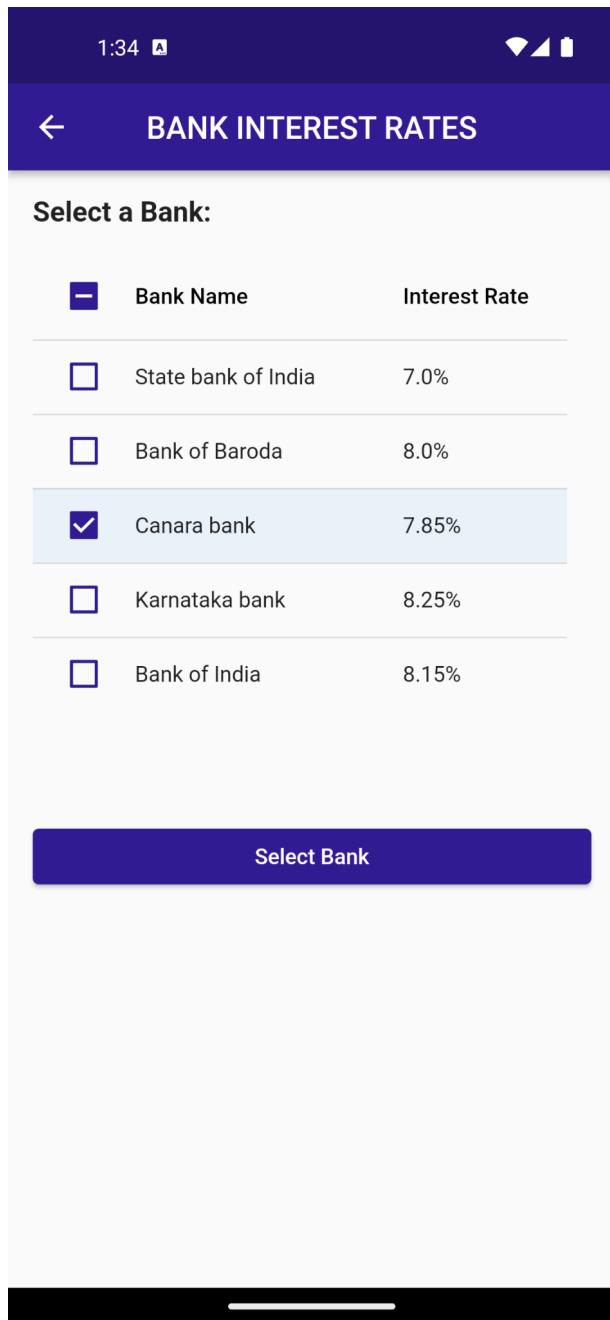
#### Validations:

- All fields must be filled
- Name shouldn't have numbers or special characters except space
- PAN and AADHAR must be unique if one also is repeated then show error message
- Income must be greater than 100000 to be eligible for the loan except for education loan
- Phone number should have 10 digits, Pan- 10 digits, Aadhar- 12 digits
- India origin phone numbers should start with 6-9

## 5. Types of banks



## 6. Bank rate of interests page



## 7. Loan Calculator

The screenshot shows a mobile application titled "LOAN CALCULATOR". The screen has a dark blue header with the title and a back arrow. Below the header, there are four input fields with horizontal lines for data entry:

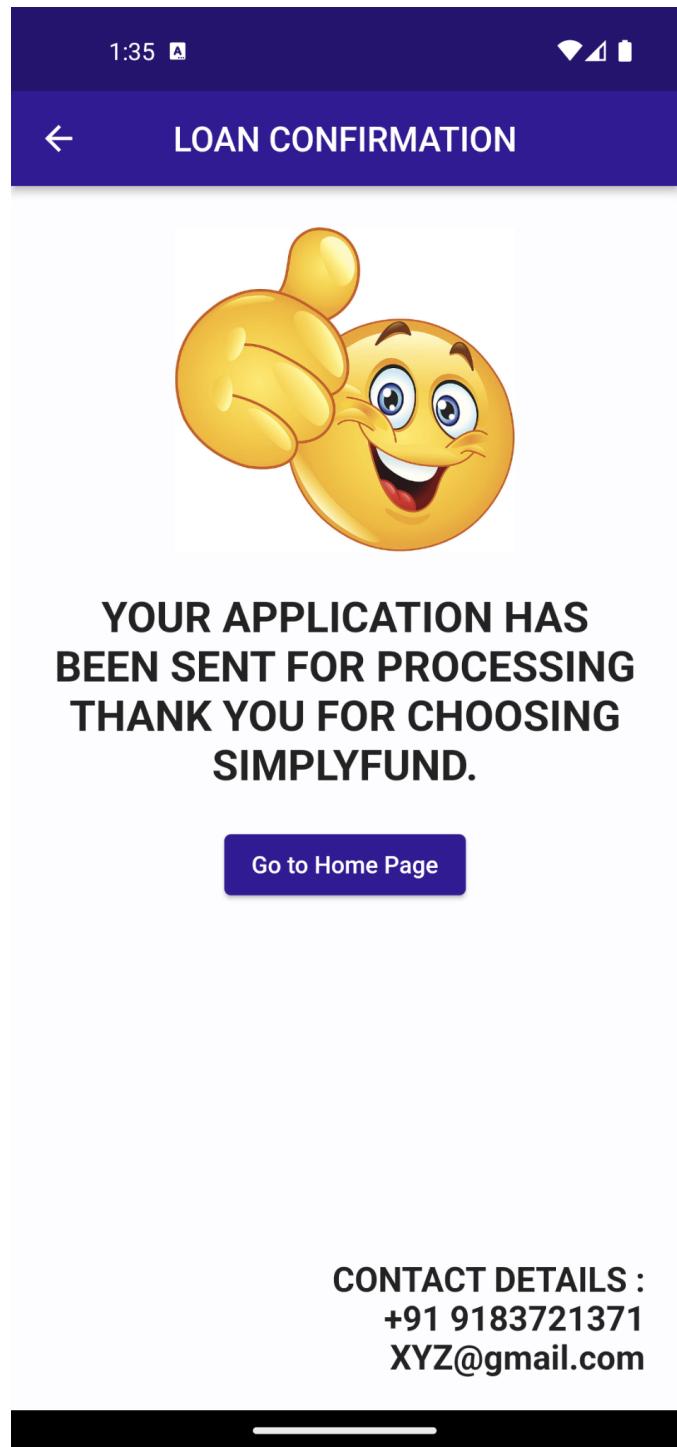
- Loan Amount:** 5000000
- Interest Rate (%):** 8
- Loan Duration (in years):** 5
- Repayment Period (in years):** 10 (with the cursor active)

Below these fields are two large blue buttons: "Calculate" and "Confirm the bank". At the bottom of the screen, the entered values are displayed again in bold black text:

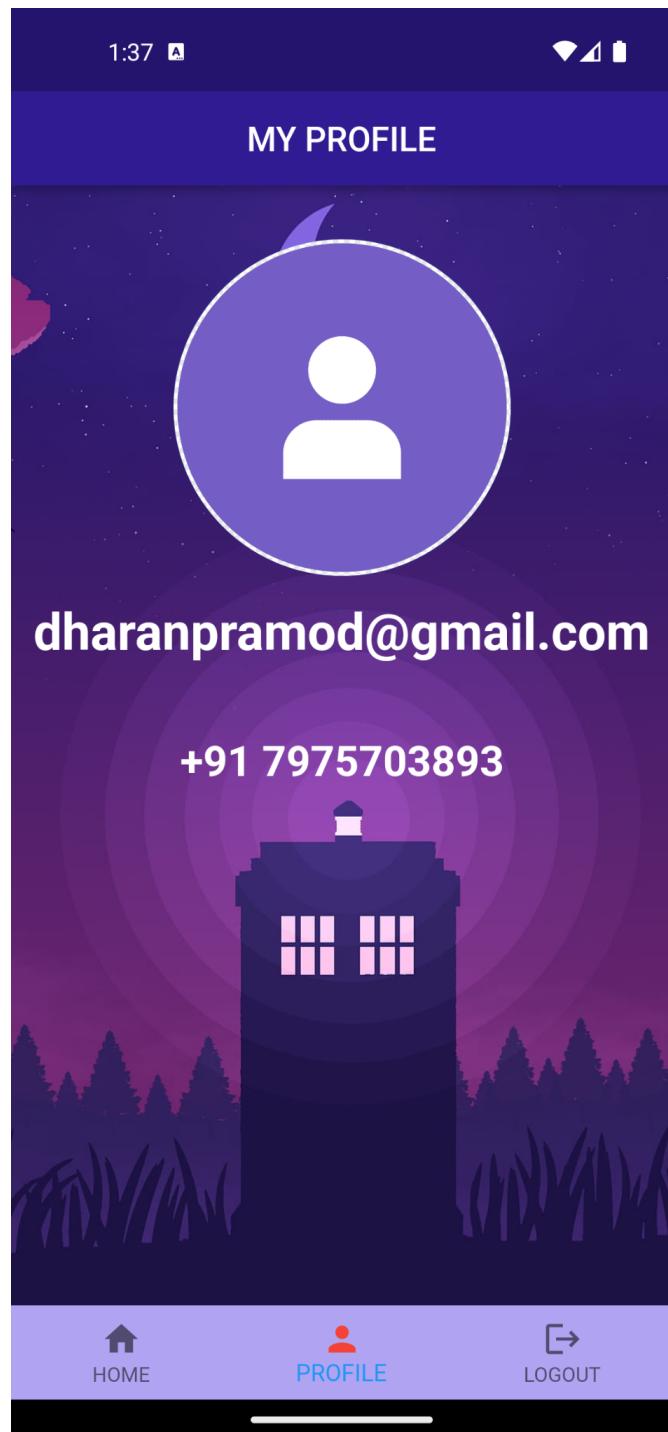
**Loan Amount: 5000000.0  
Interest Rate: 8.0%  
Loan Duration: 5 years  
Repayment Period: 10 years**

**Total Amount to be Repaid: 7000000.0**

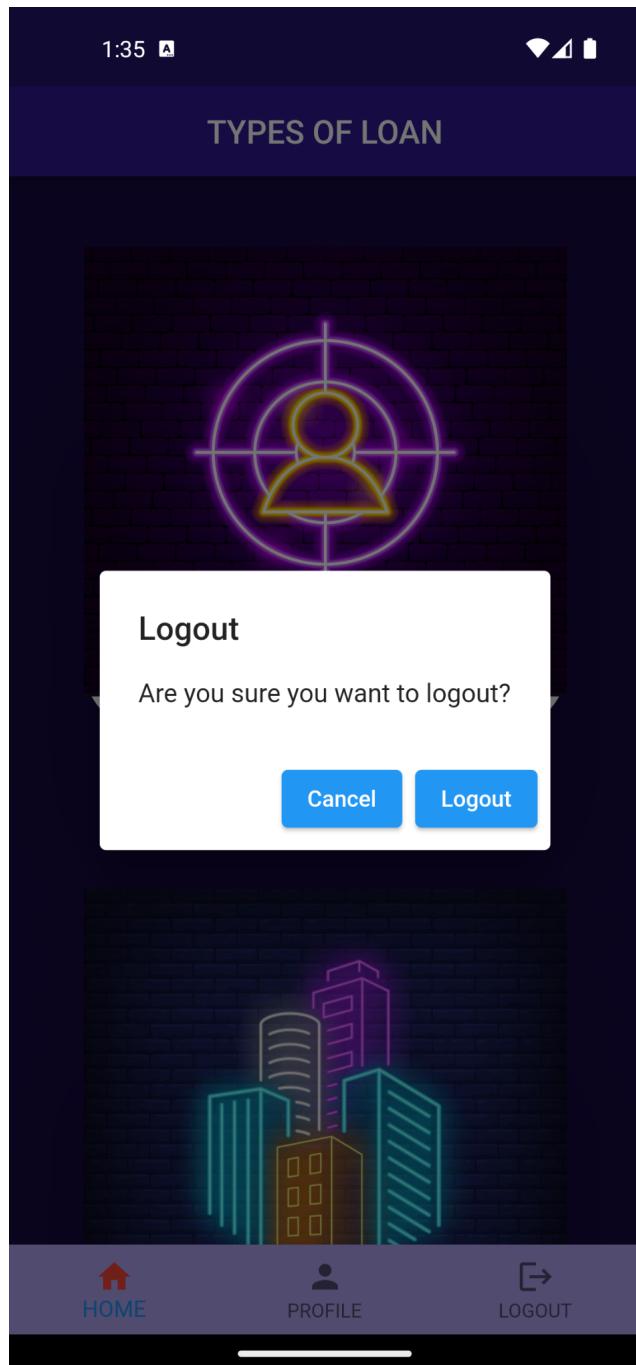
## 8. Confirmation Page



## 9. Profile page



## 10. Logout



## Future implementations:

- Karza api for pan and aadhar verification
- Creating a connection from the Bank API.
- Rate of interests to be made automated so that it gets updated as the bank rate of interests keep changing.
- Implementing the JWT token generation for enhanced security features.