Technical Design Document

Project name: **ABC Loan Service.**

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Introduction:

ABC Loans is created to meet the needs of Customers of ABC Bank to apply a Loan online Instantly. The architecture implemented is Spring Boot services.

Functional Requirements:

The functional requirements of the project are :

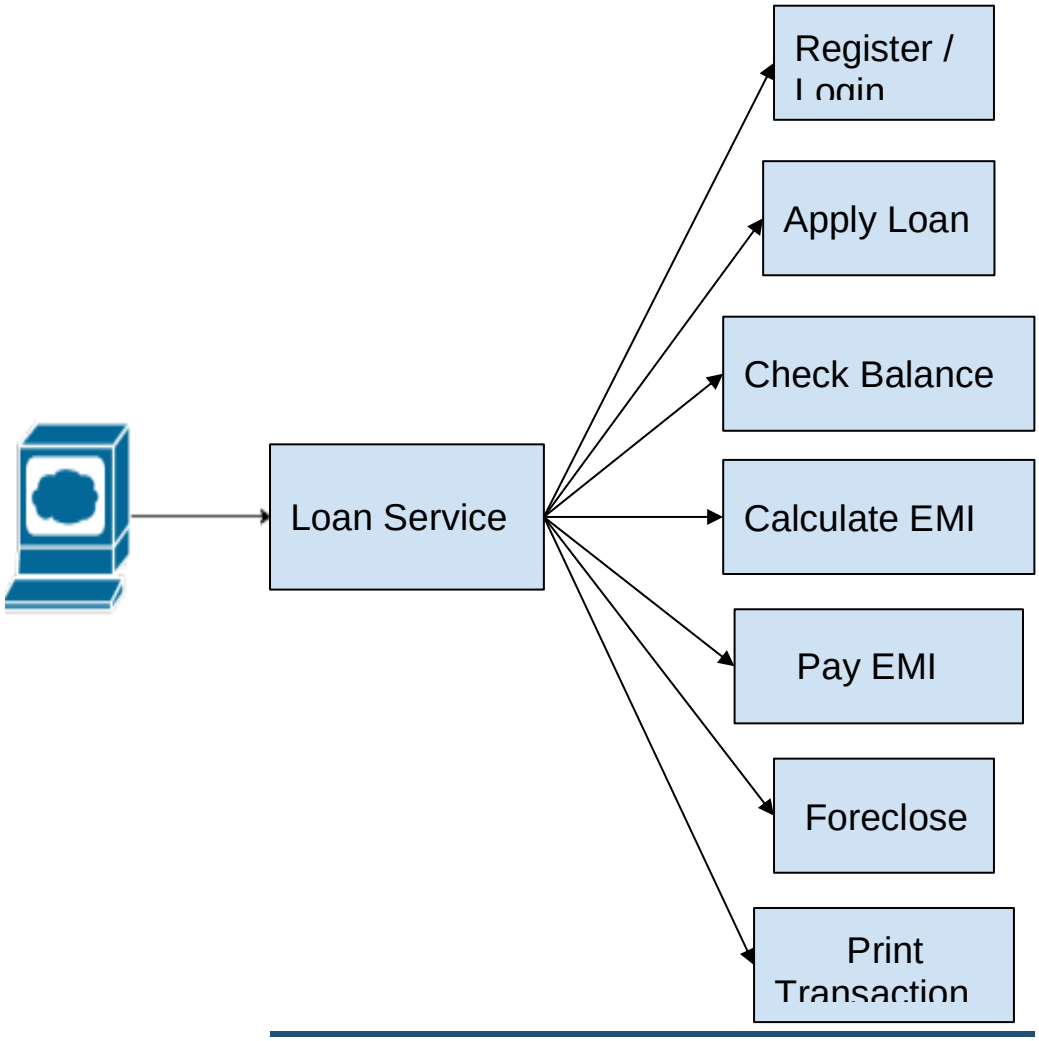
- Login/Register
- View Profile
- Edit Profile
- Apply Loan
- Show Balance
- Calculate EMI
- Pay EMI
- Foreclose
- Print Transactions

Service

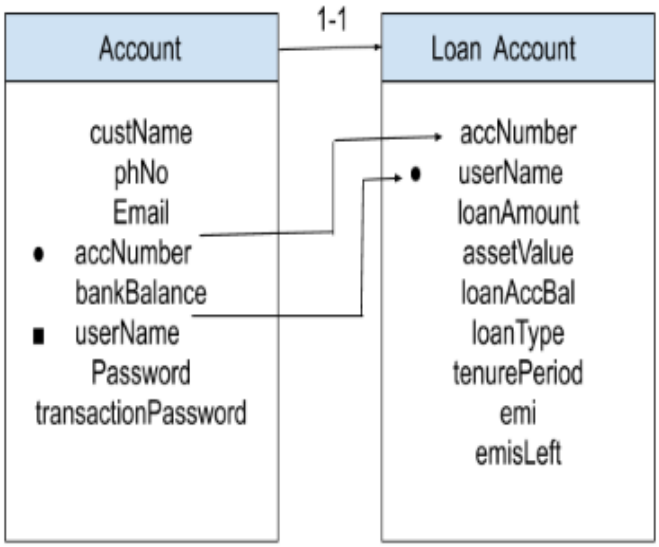
Loan Service in this project is :

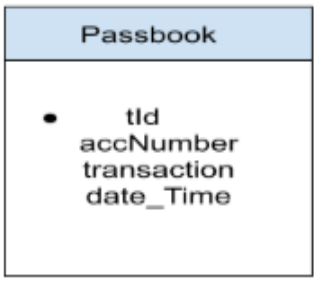
- Register - Create an Account in ABC Bank.
- Apply Loan - To Apply a Loan with an ABC Bank Account.
- Show Balance - To Get balance details of a Customer.
- Calculate EMI - To Calculate EMI for the existing Loan Account (or)
  To calculate EMI for customized parameters.
- Pay EMI - To Pay EMI for the Existing Loan Account.
- Foreclose - To foreclose the pending Loan account.
- Payment Interface - To deposit,pay emi,foreclose loan with transaction password verification.
- Print Transactions - To Print all the Transactions made by the customer.

Overall Architecture Diagram:



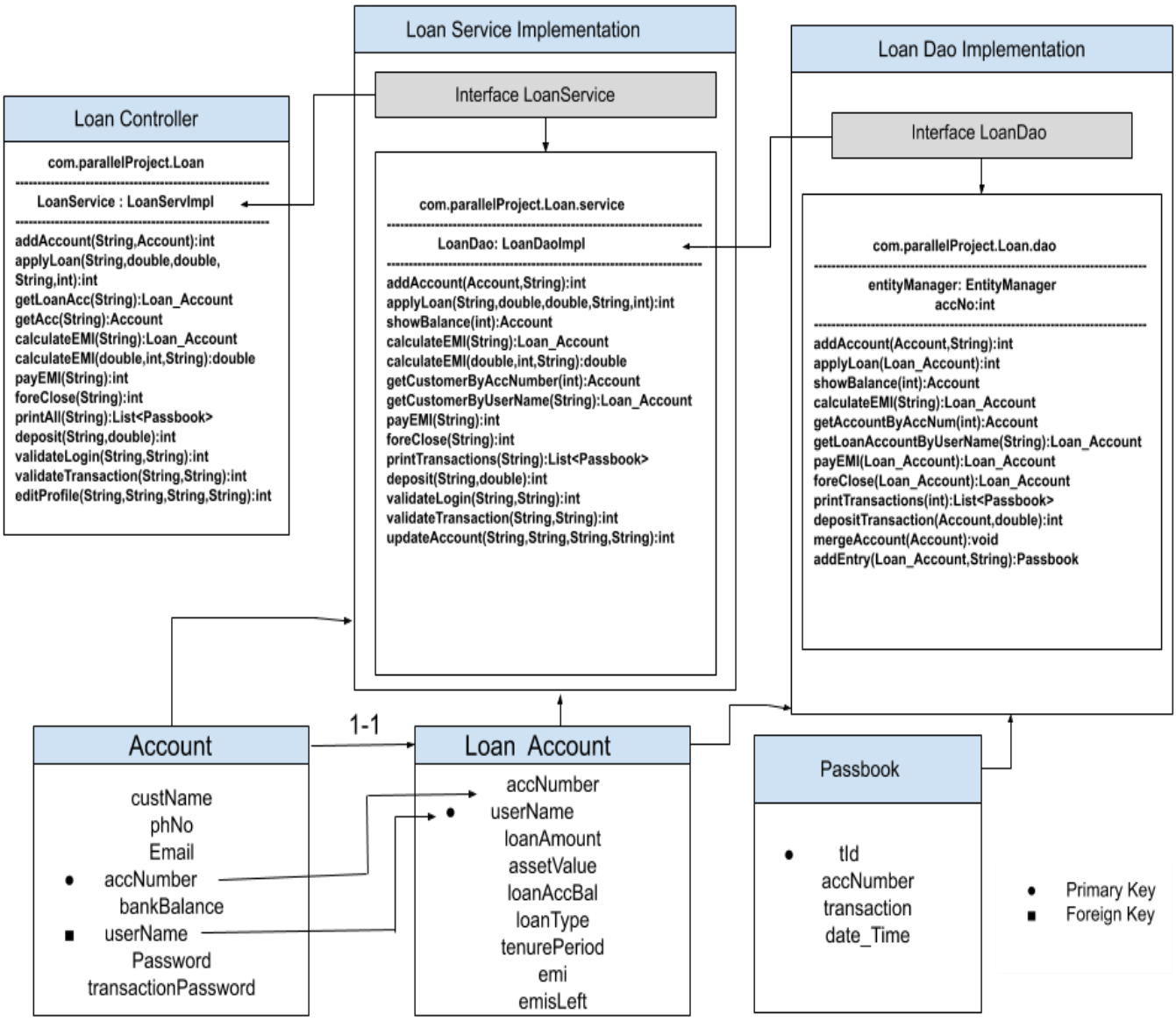
Overall Entity Relationship Diagram:





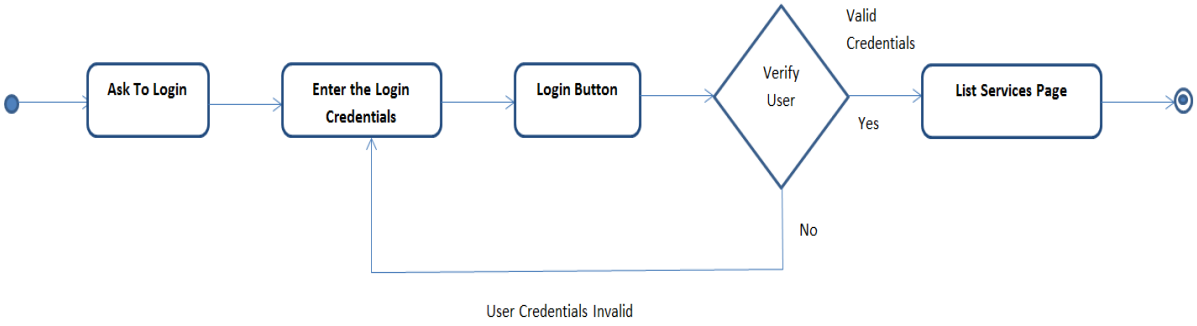
- Primary Key
- Foreign Key

Class Diagram :

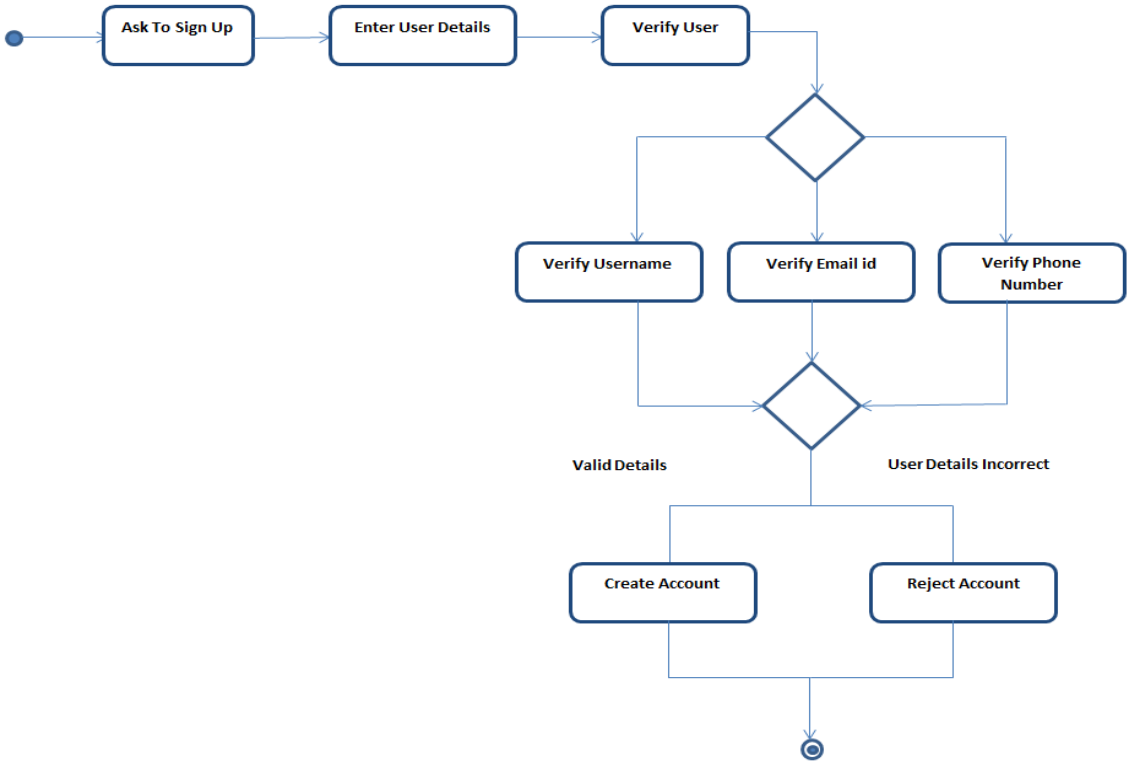


Activity Diagrams:

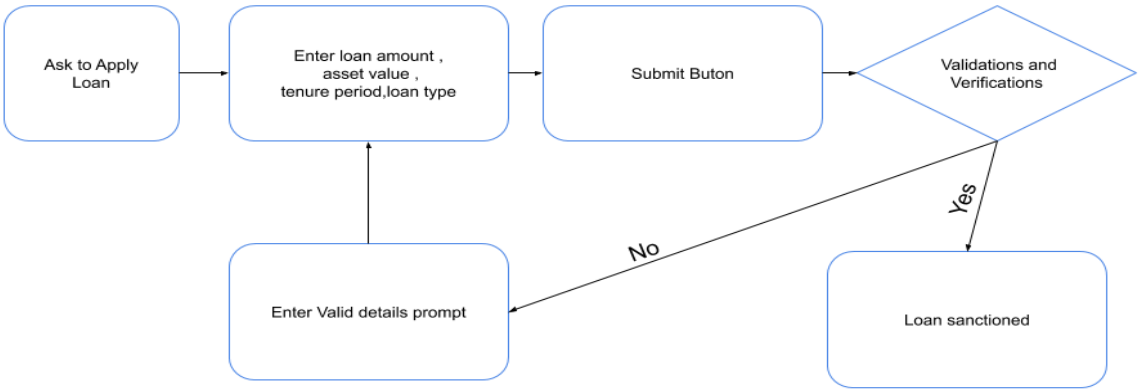
Login:



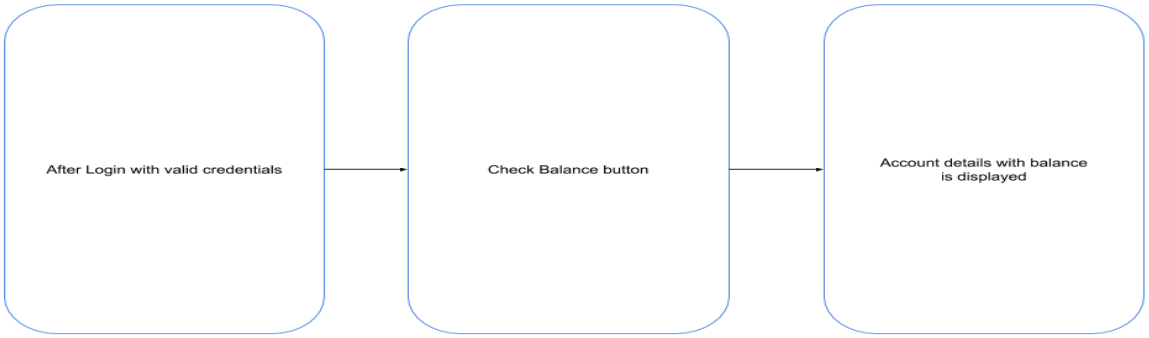
Register/Sign Up:



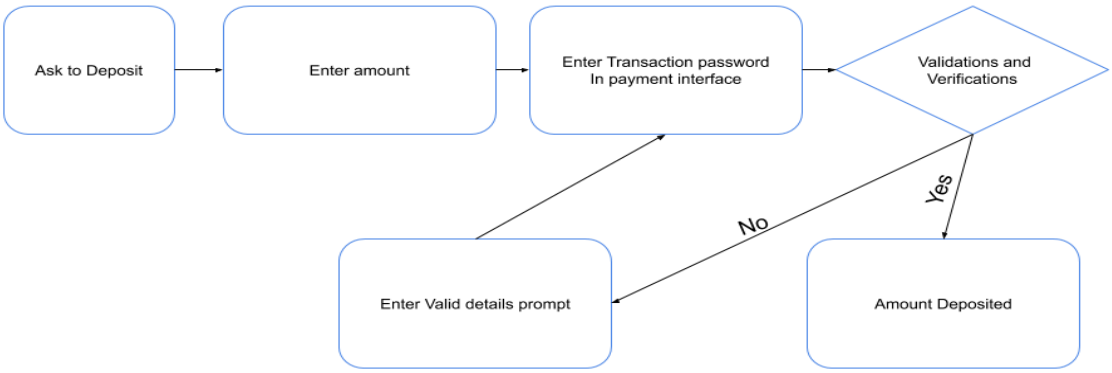
Apply Loan:



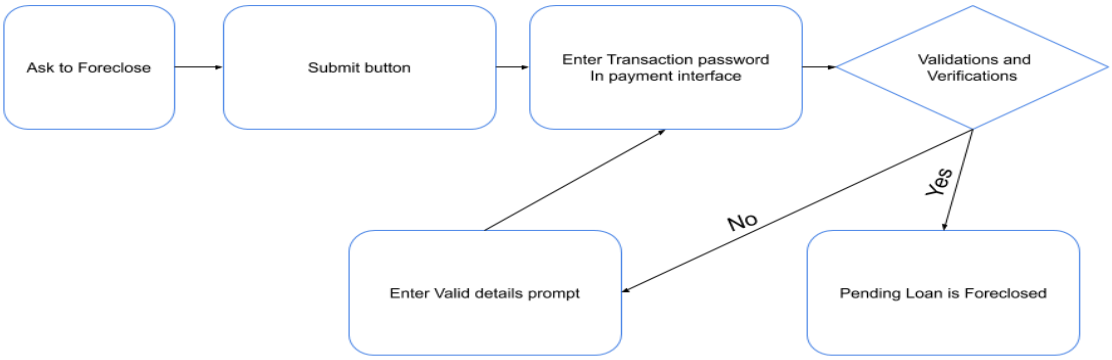
Check Account Balance:



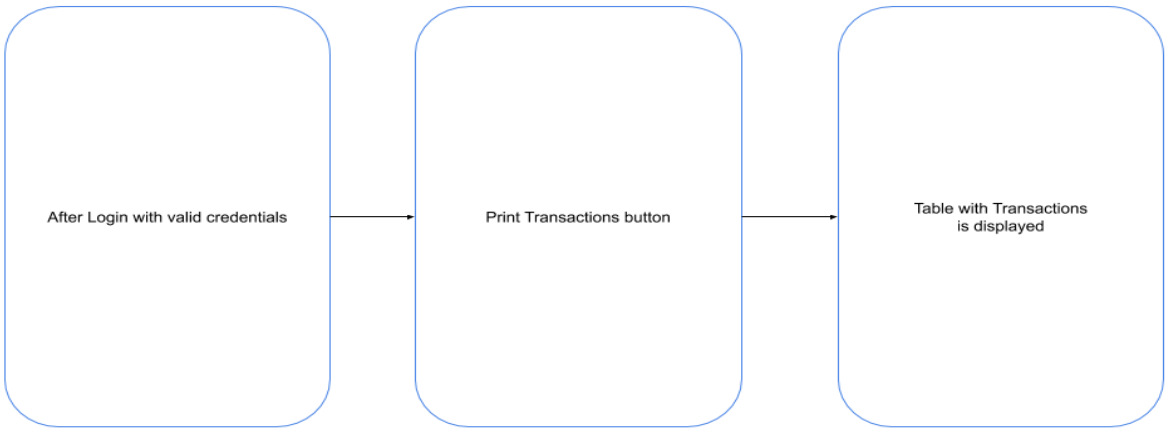
Deposit:



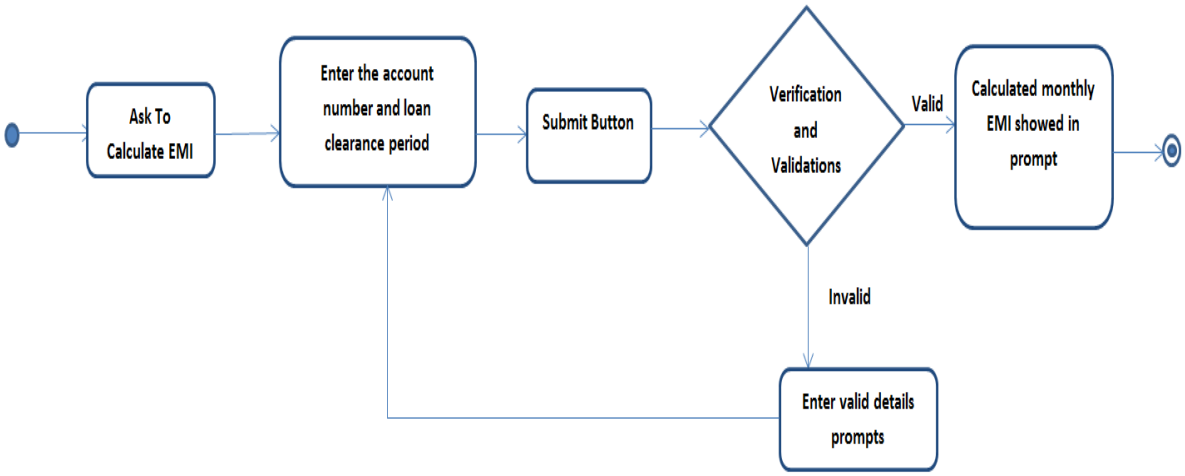
Foreclose:



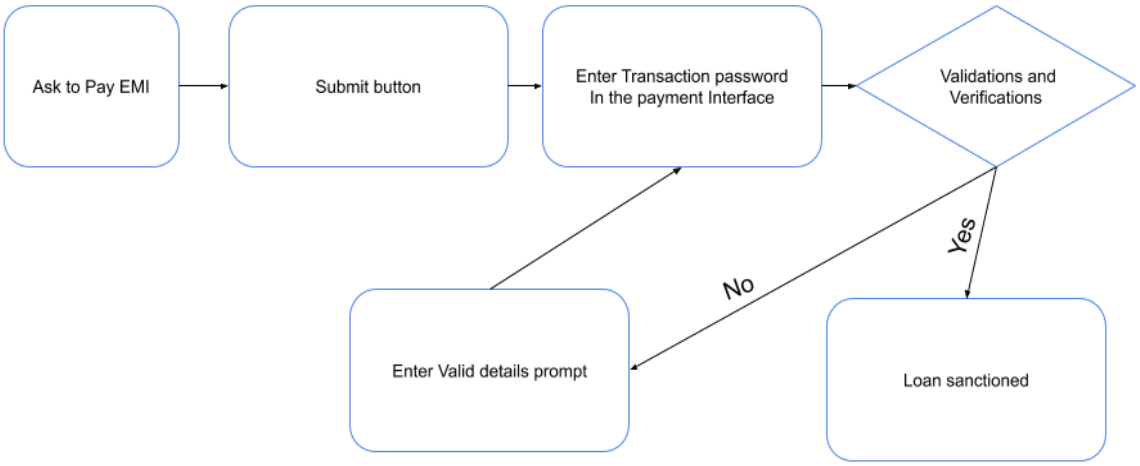
Print Transactions:



Calculate EMI:

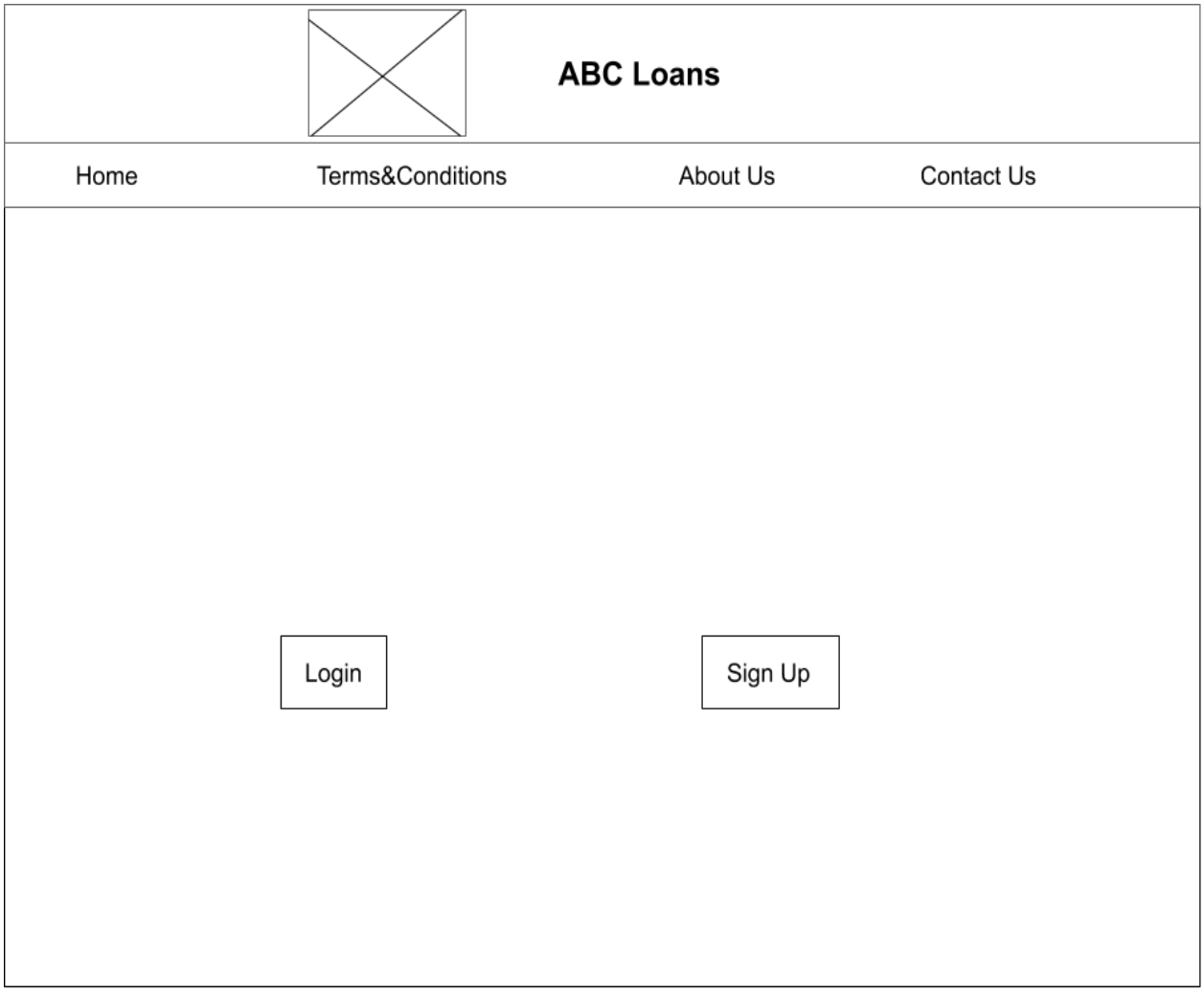


Pay EMI:

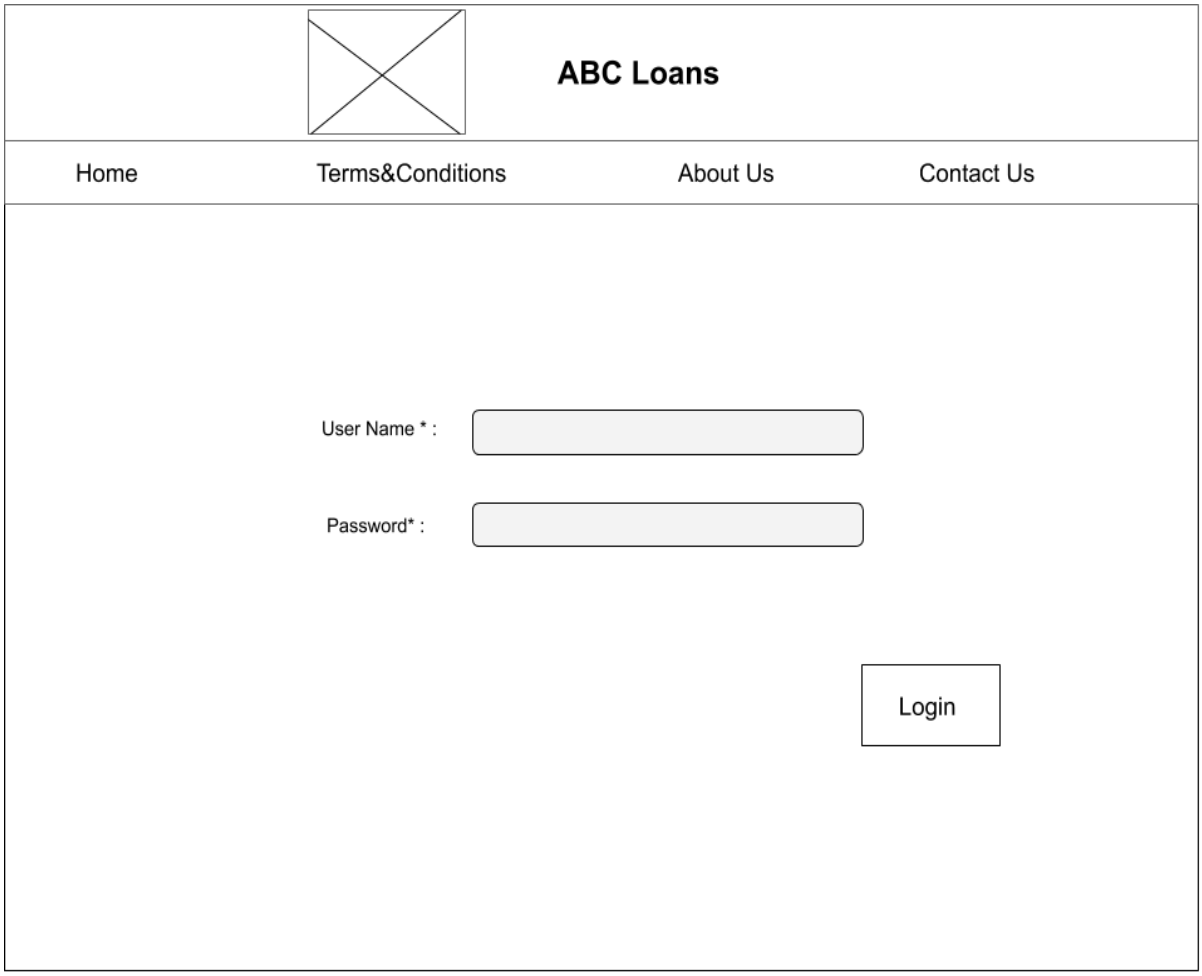

Ask to Pay EMI
Submit button
Enter Transaction password
In the payment Interface
Validations and
Verifications
Yes
No
Enter Valid details prompt
Loan sanctioned

WIREFRAMES:

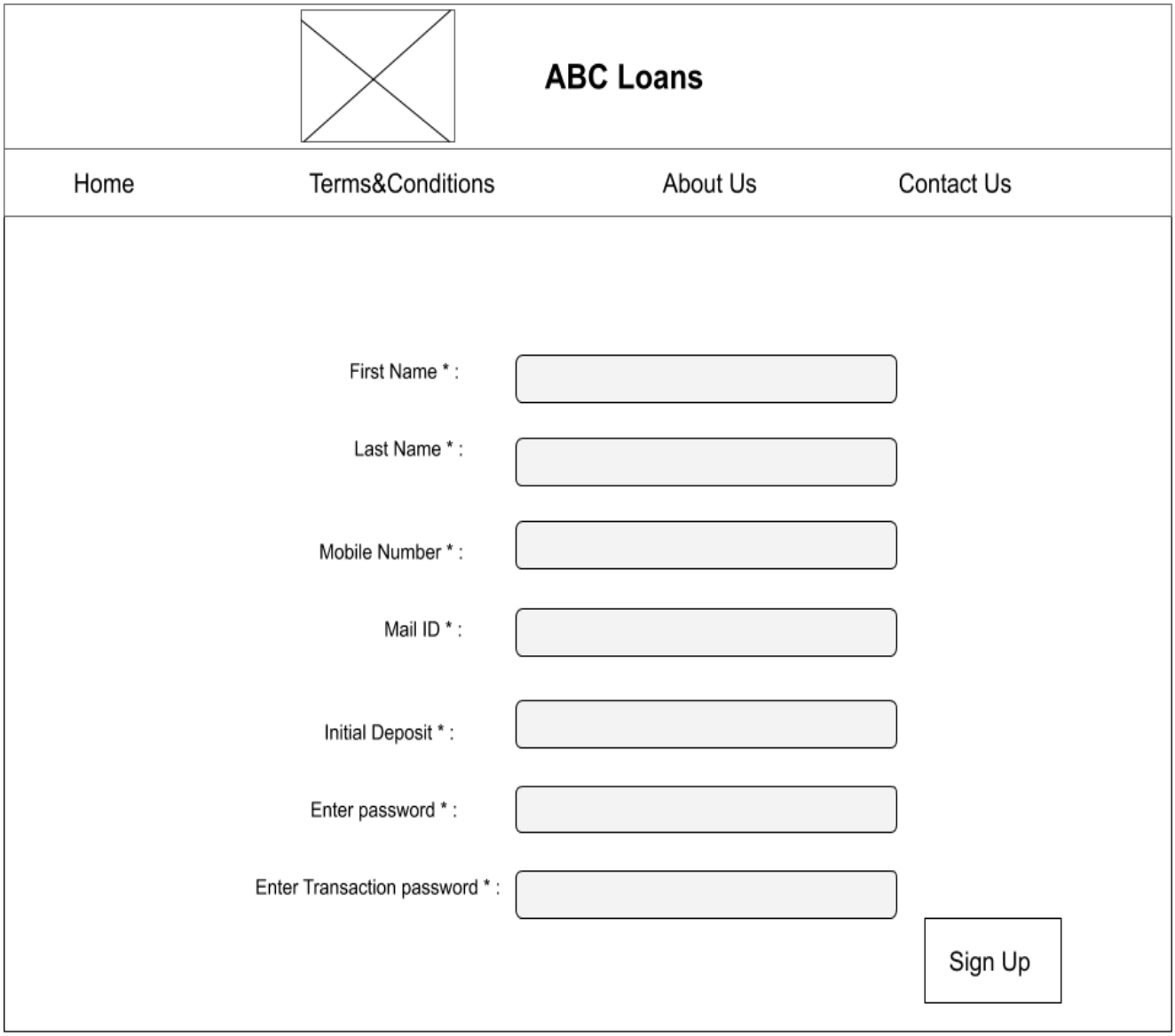
Home Page:



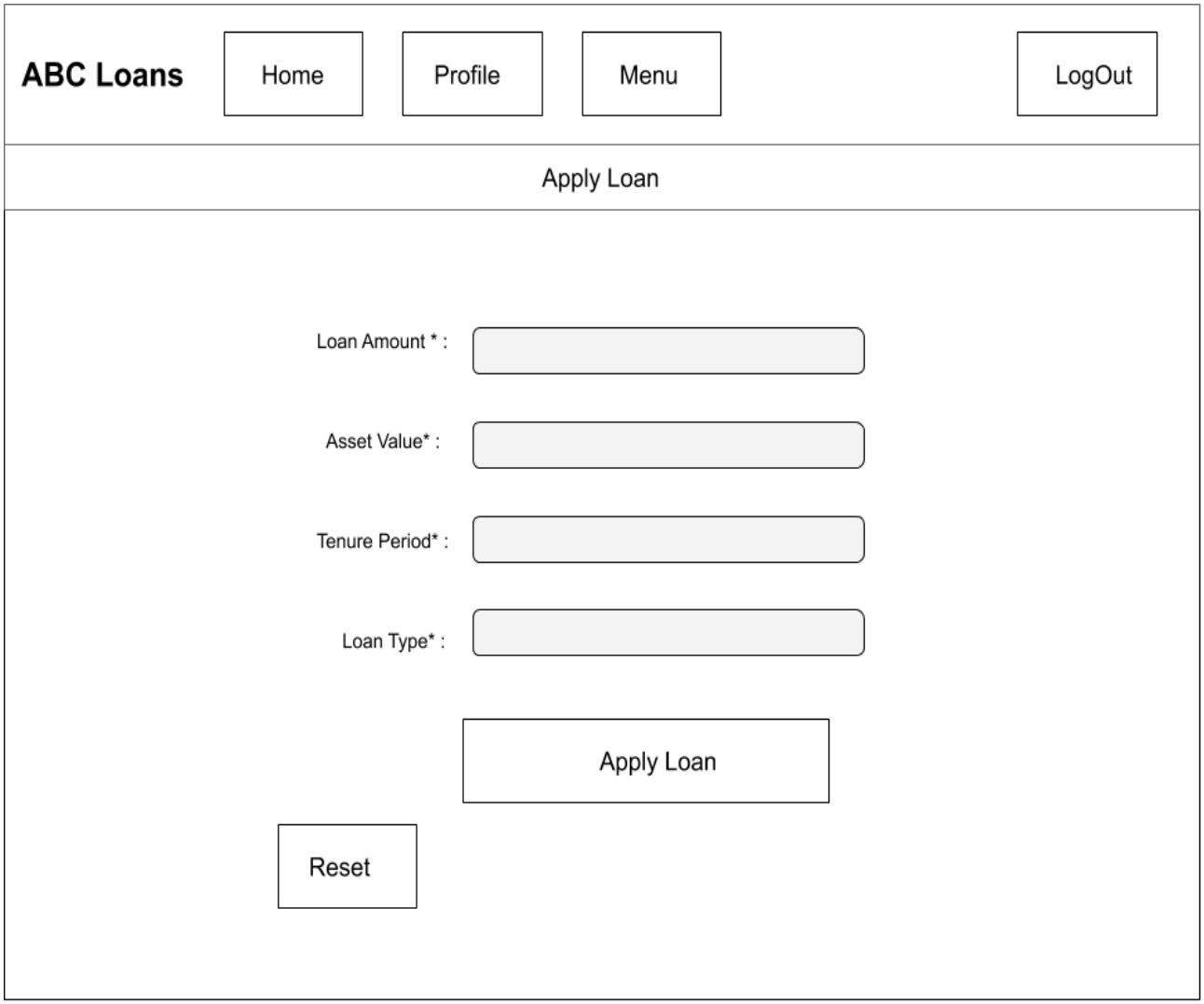
LOGIN:


ABC Loans
Home
Terms&Conditions
About Us
Contact Us
User Name * :
Password* :
Login

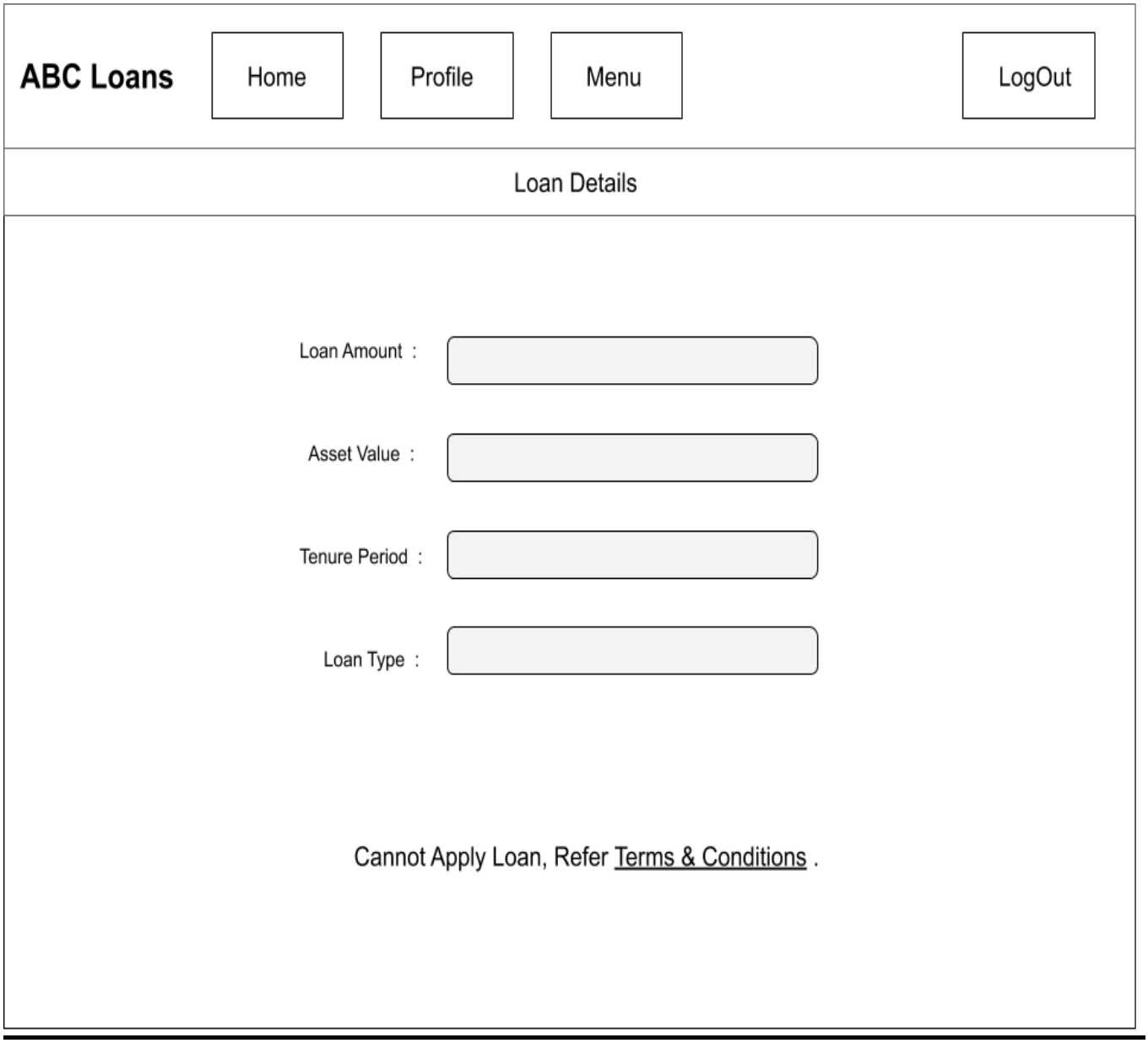
SIGN UP:


ABC Loans
Home
Terms&Conditions
About Us
Contact Us
First Name * :
Last Name * :
Mobile Number * :
Mail ID * :
Initial Deposit * :
Enter password * :
Enter Transaction password * :
Sign Up

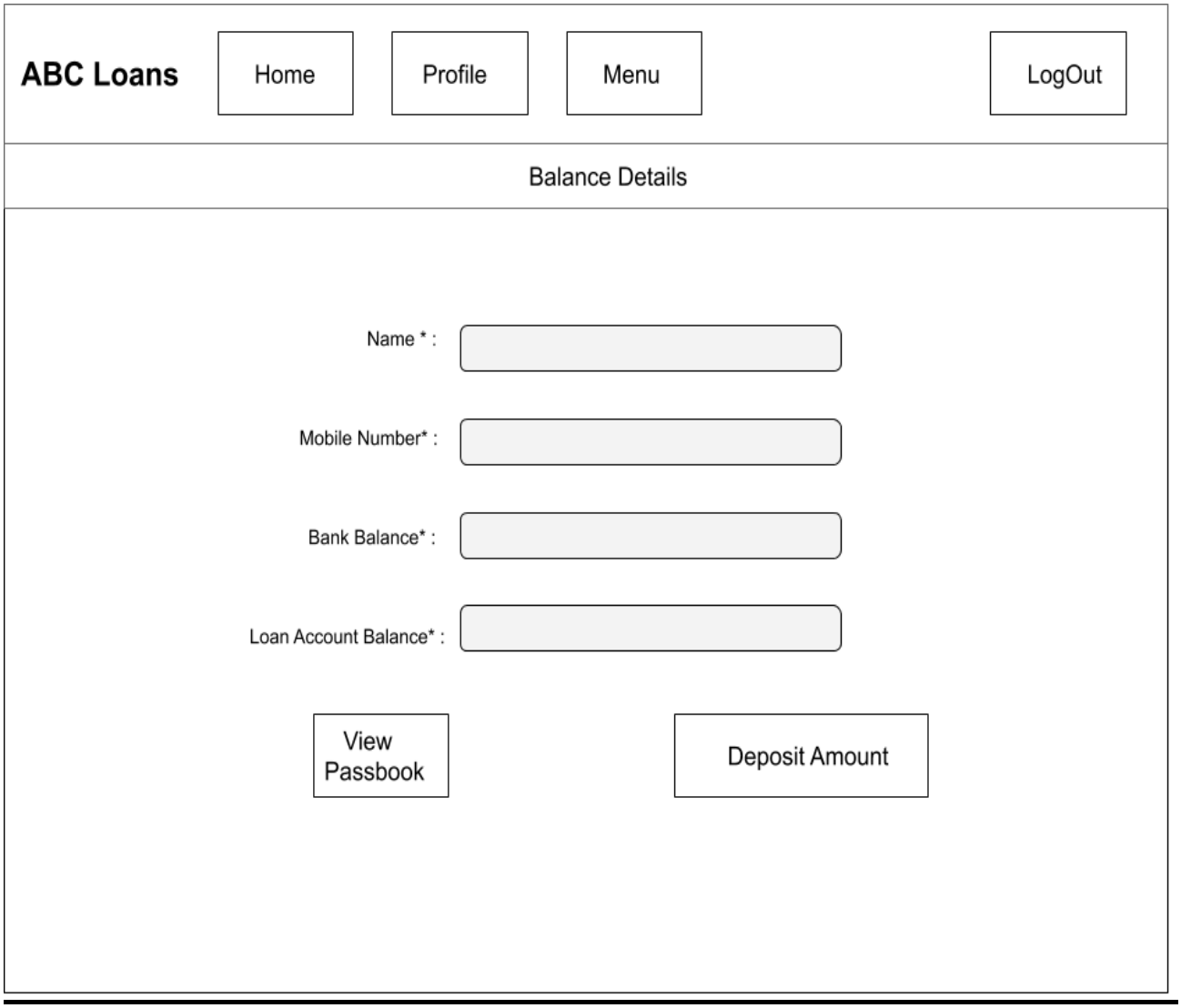
Apply Loan:


ABC Loans
Home
Profile
Menu
LogOut
Apply Loan
Loan Amount * :
Asset Value* :
Tenure Period* :
Loan Type* :
Apply Loan
Reset

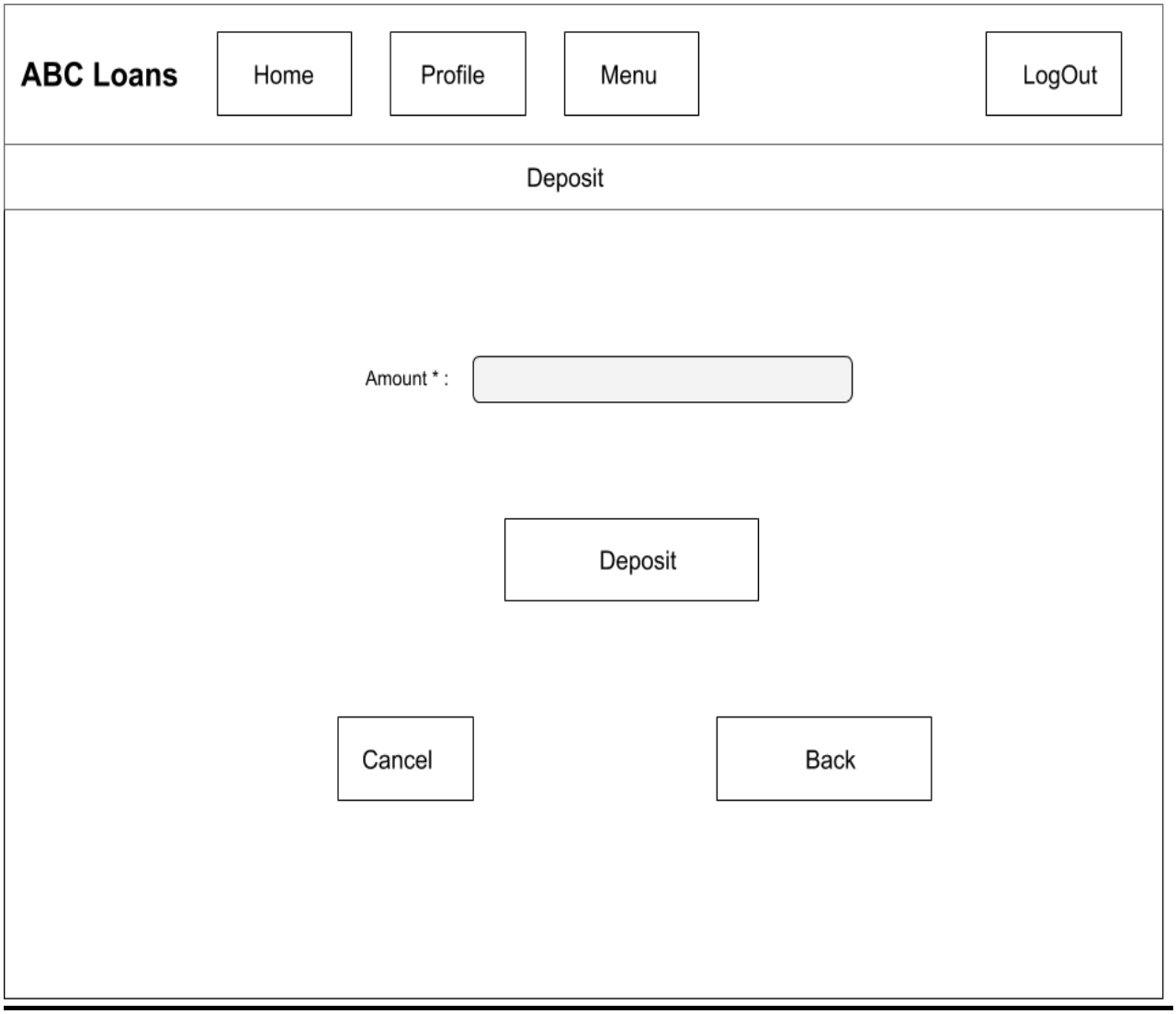
Loan Details :



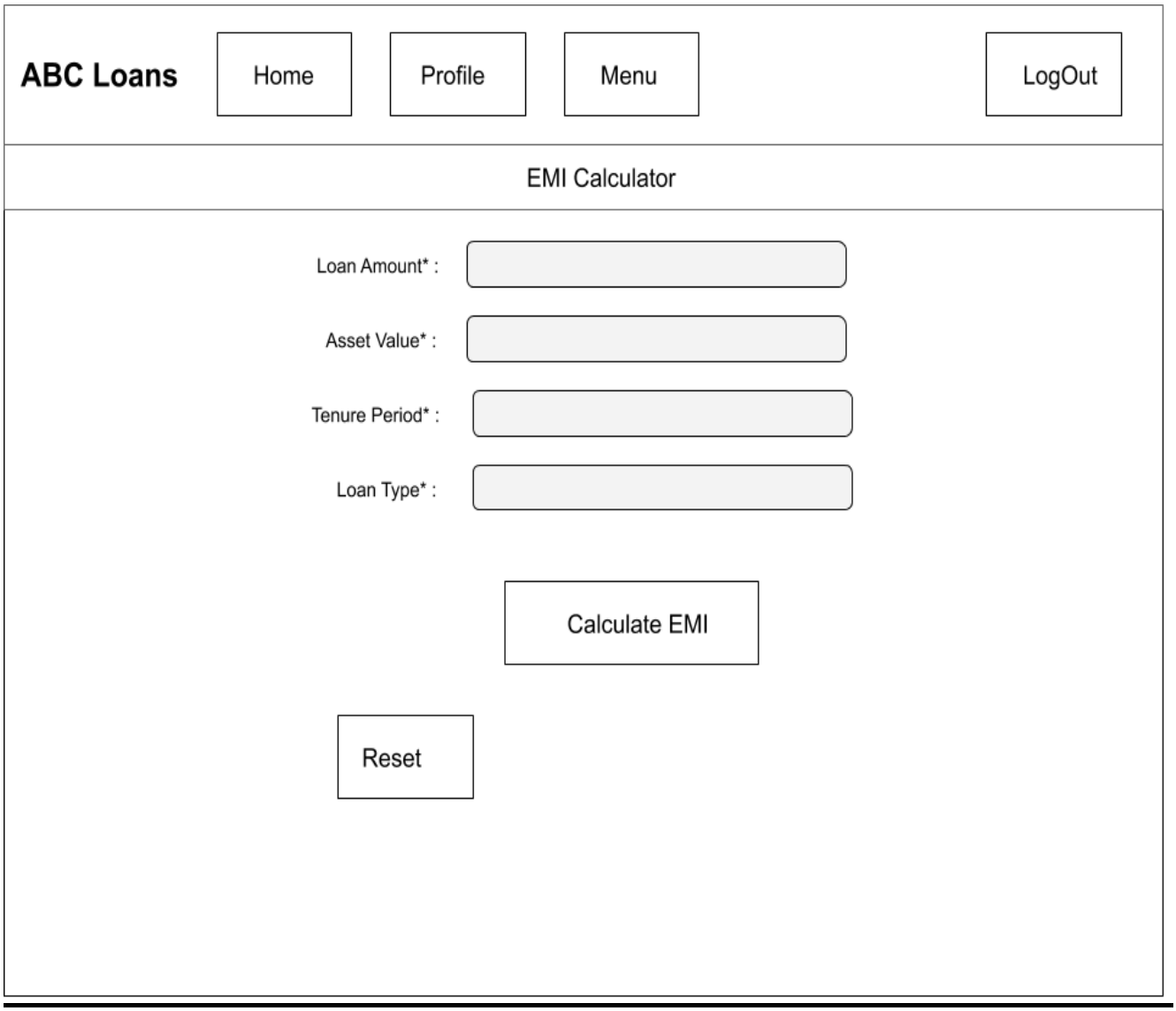
Check Balance :



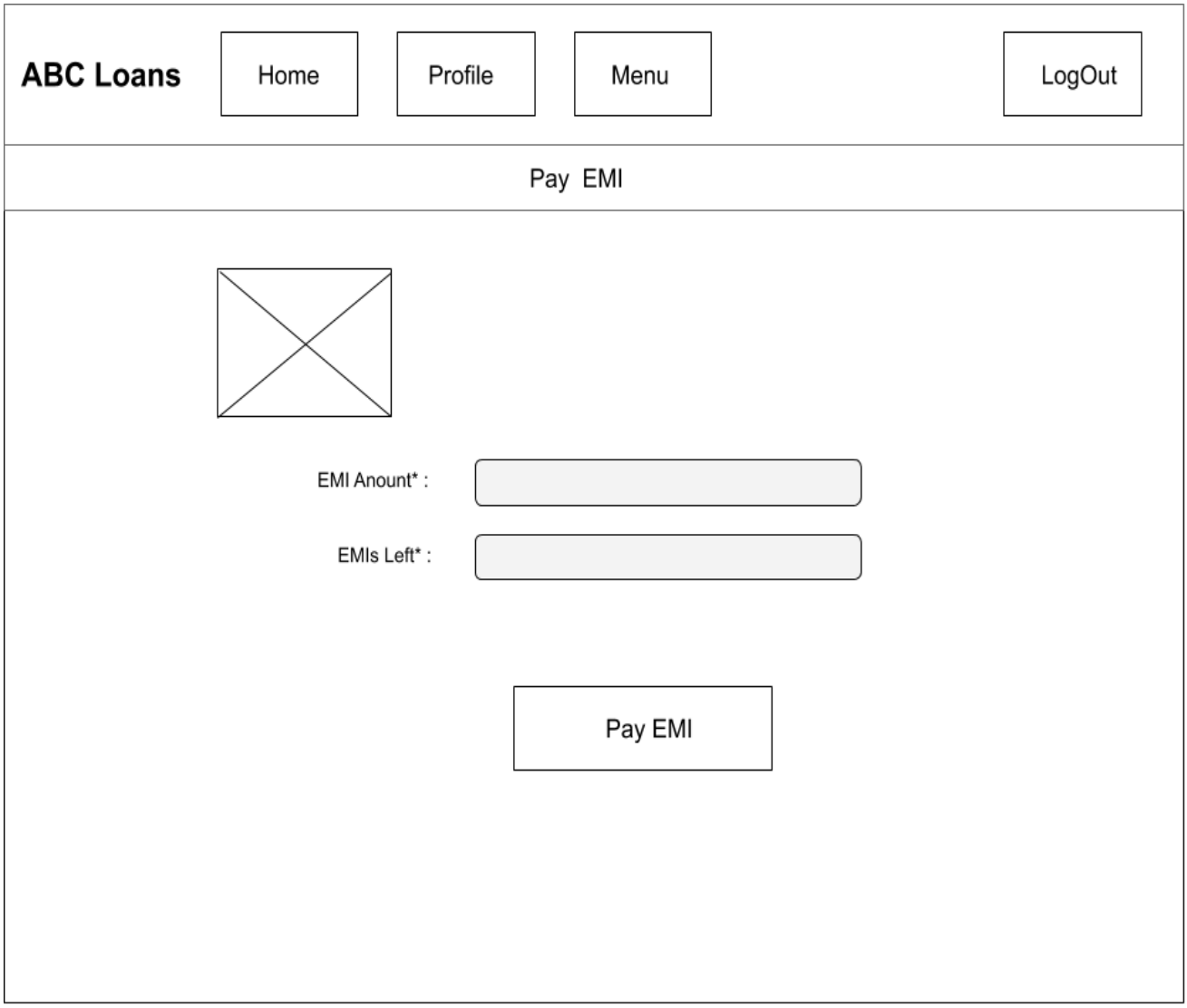
Deposit :


ABC Loans
Home
Profile
Menu
LogOut
Deposit
Amount * :
Deposit
Cancel
Back

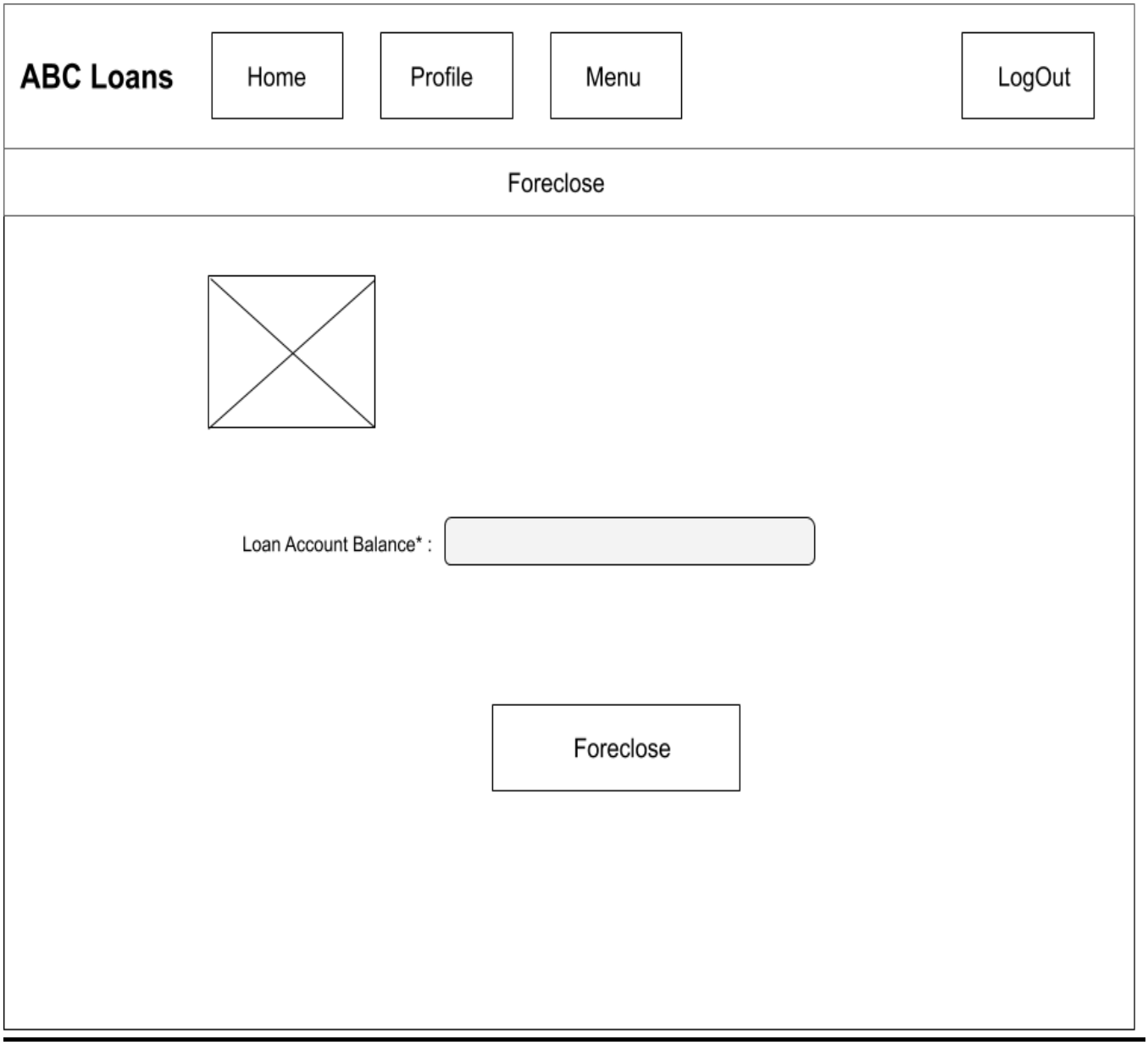
Calculate EMI :



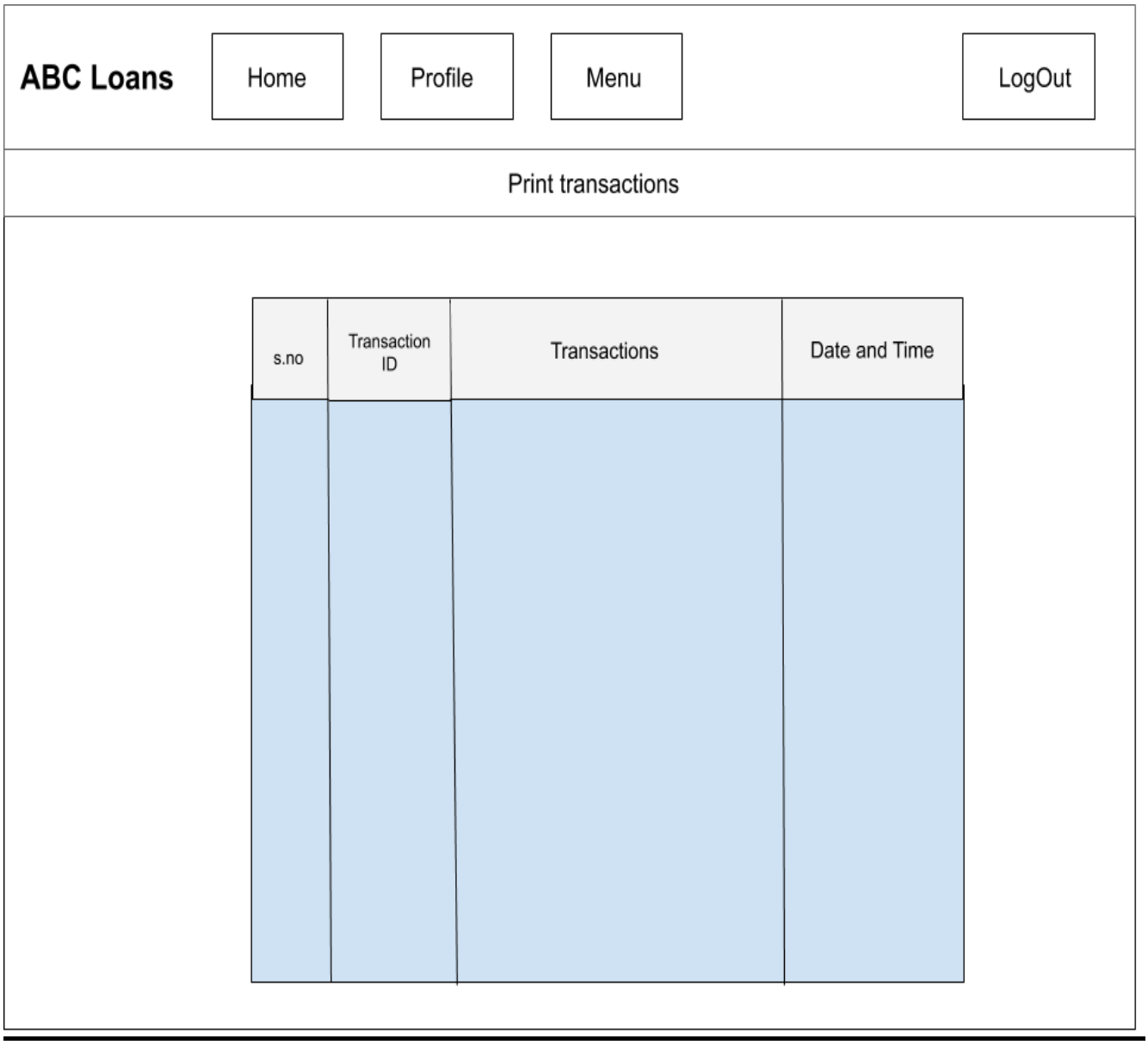
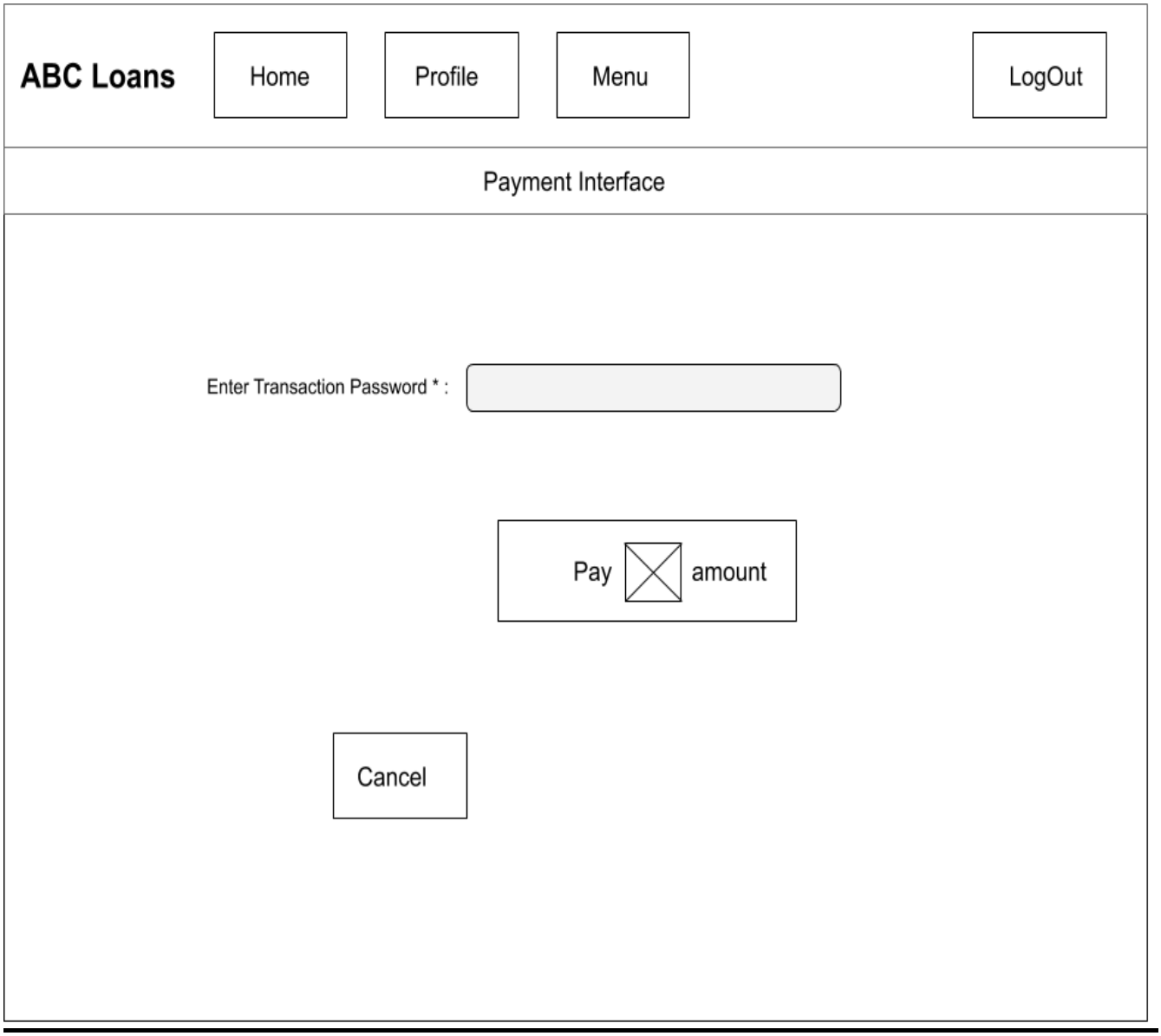
Pay EMI :


ABC Loans
Home
Profile
Menu
LogOut
Pay EMI
EMI Anount* :
EMIs Left* :
Pay EMI

Foreclose :


ABC Loans
Home
Profile
Menu
LogOut
Foreclose
Loan Account Balance* :
Foreclose

Print Transactions :



Payment Interface :