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)

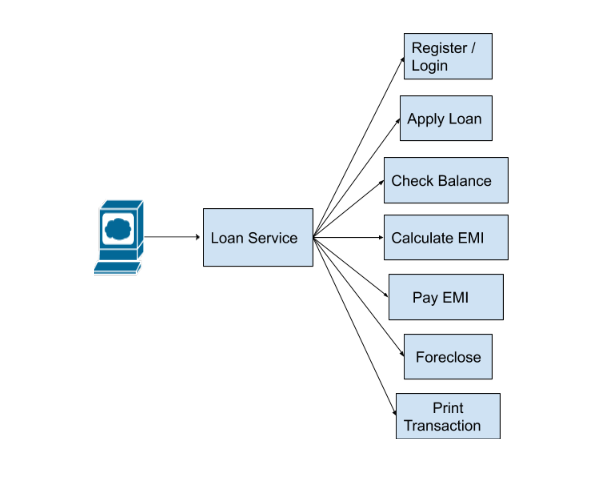
To calculate EMI for customized parameters.

* + - 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

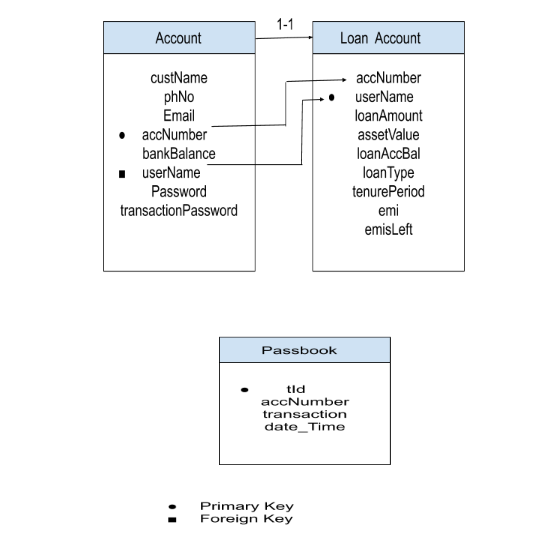
Password verification.

* + - Print Transactions - To Print all the Transactions made by the customer.

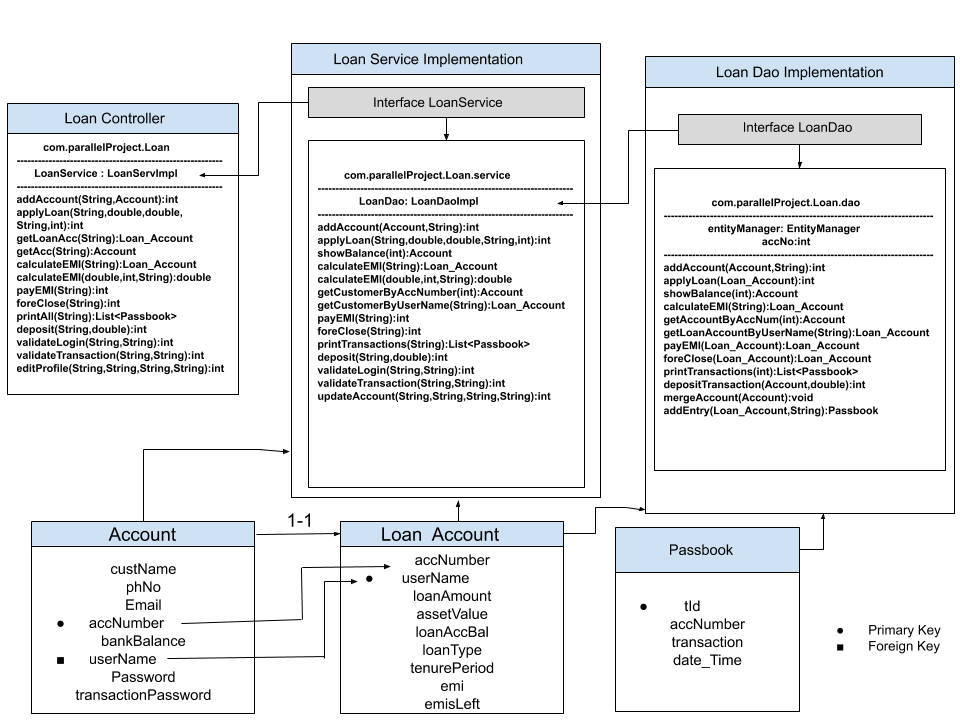
**Overall Architecture Diagram:**



**Overall Entity Relationship Diagram:**

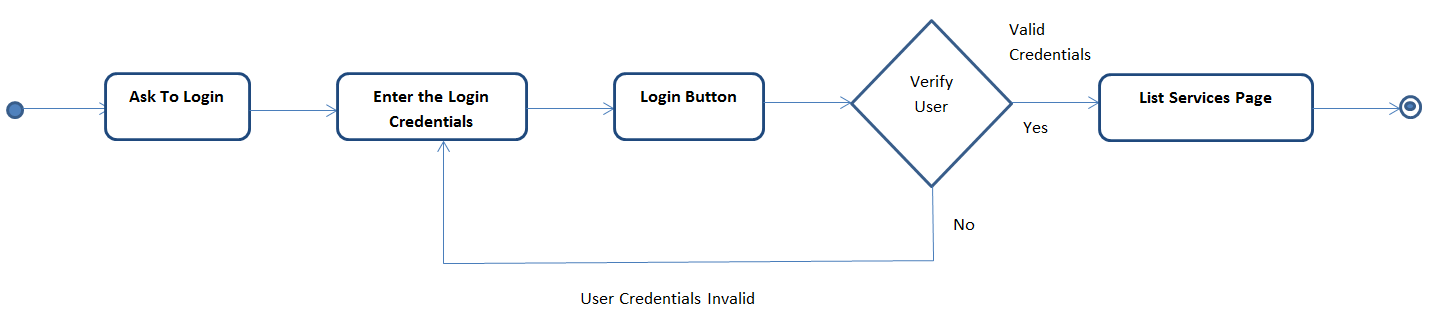


**Class Diagram :**

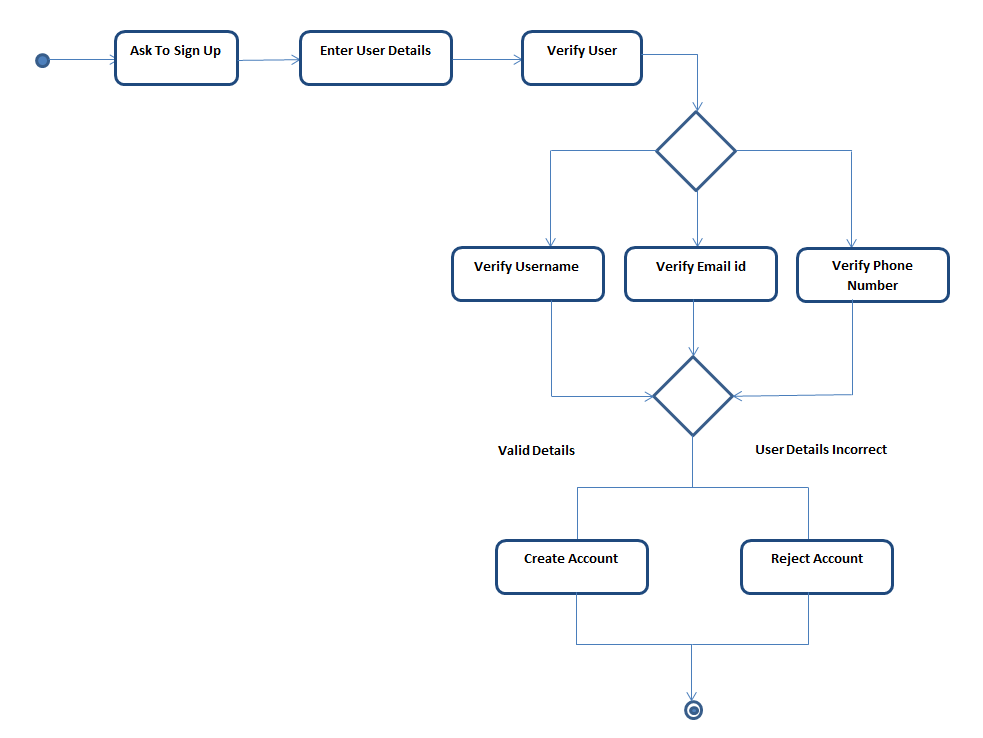


**Activity Diagrams:**

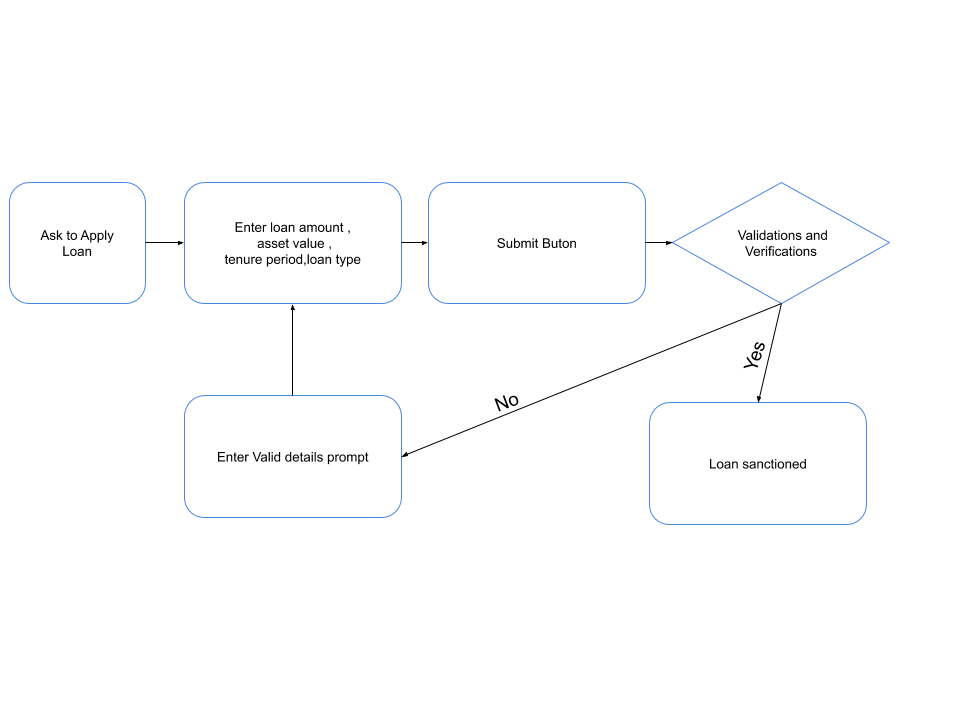
**Login:**

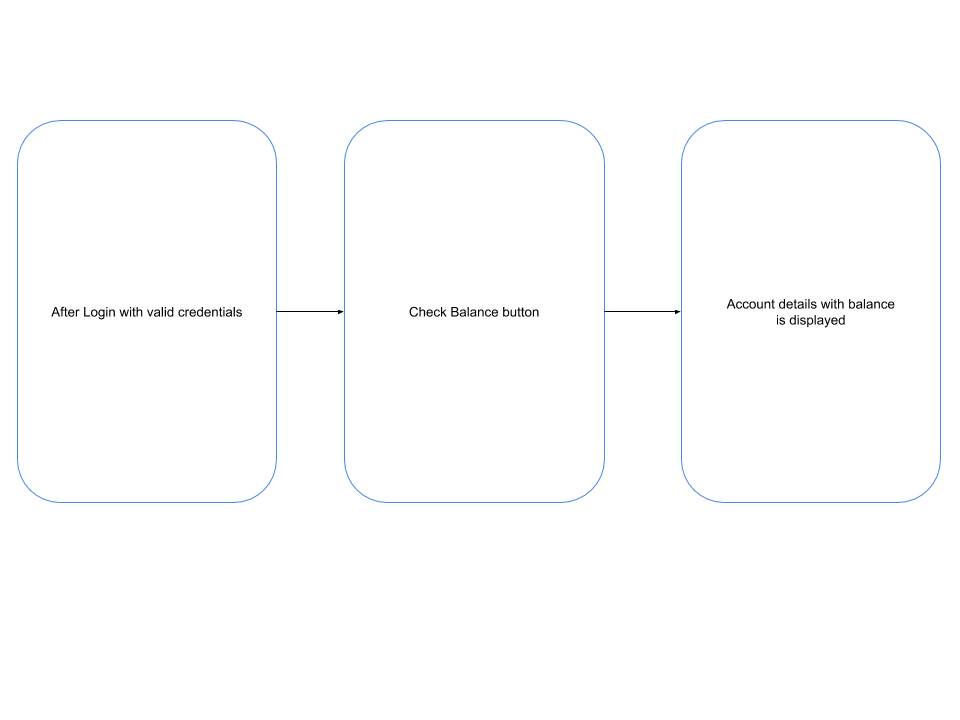
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**Register/Sign Up:**

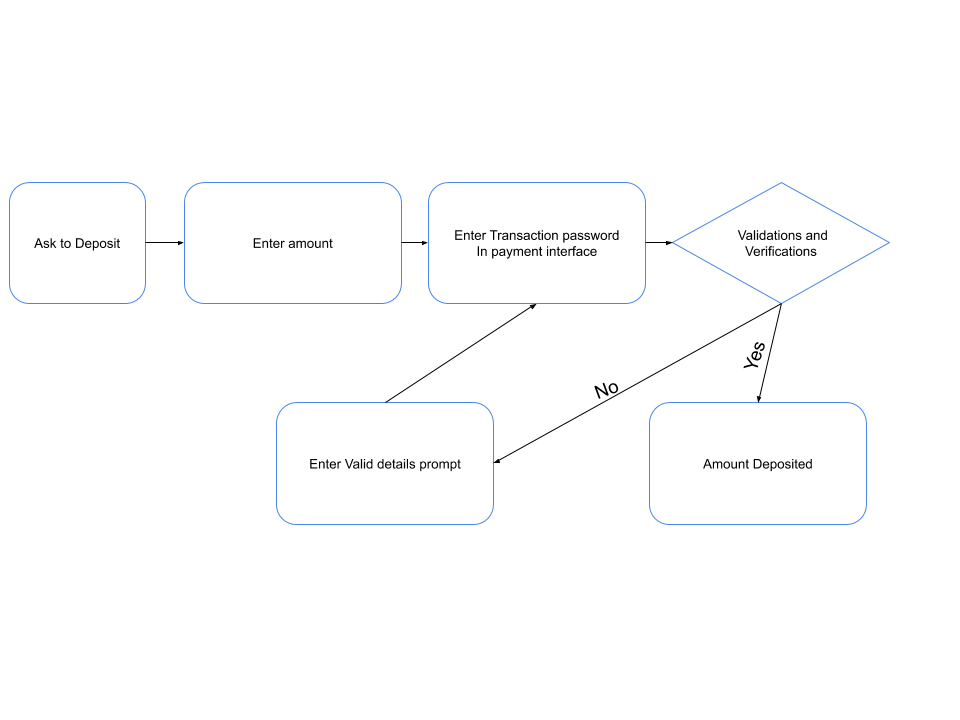
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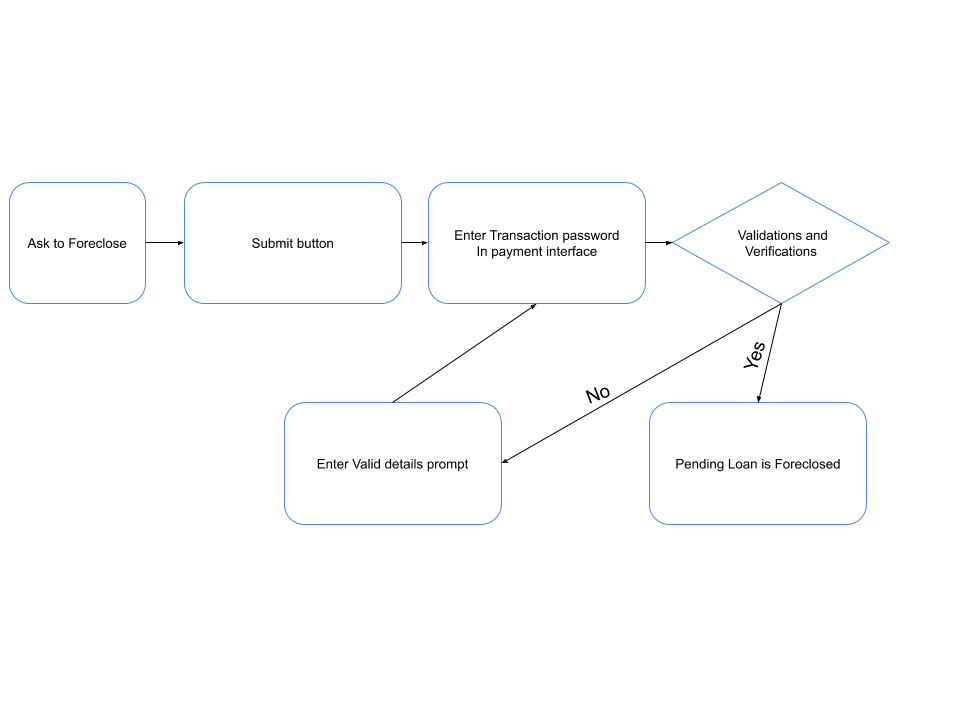
**Apply Loan:**

**Check Account Balance:**

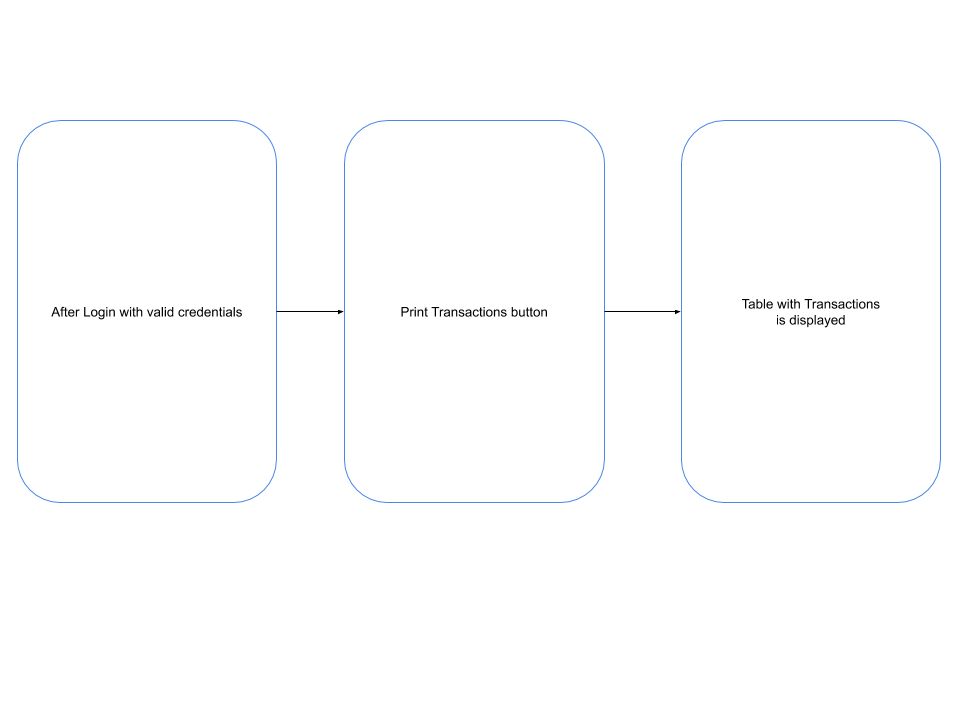
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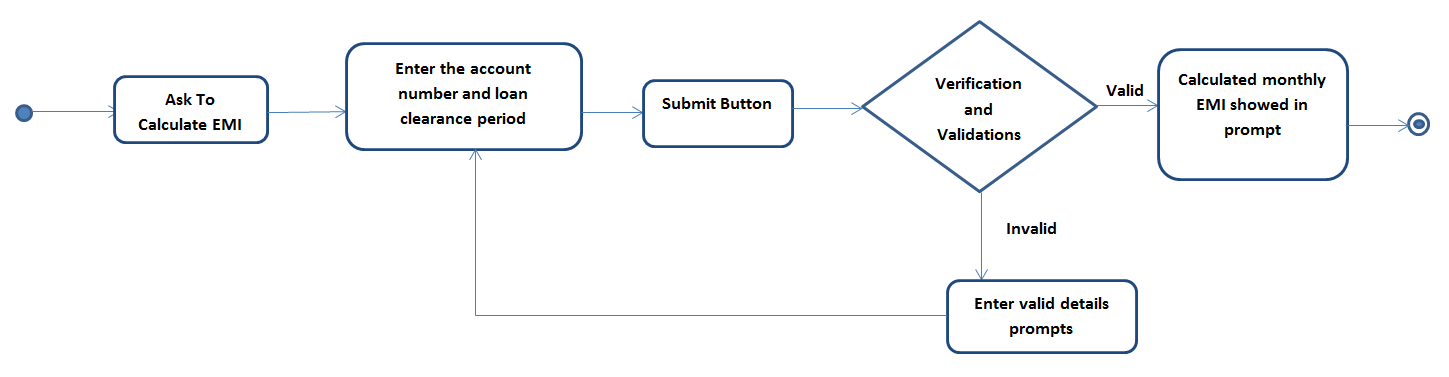
**Deposit:**

**Foreclose:**

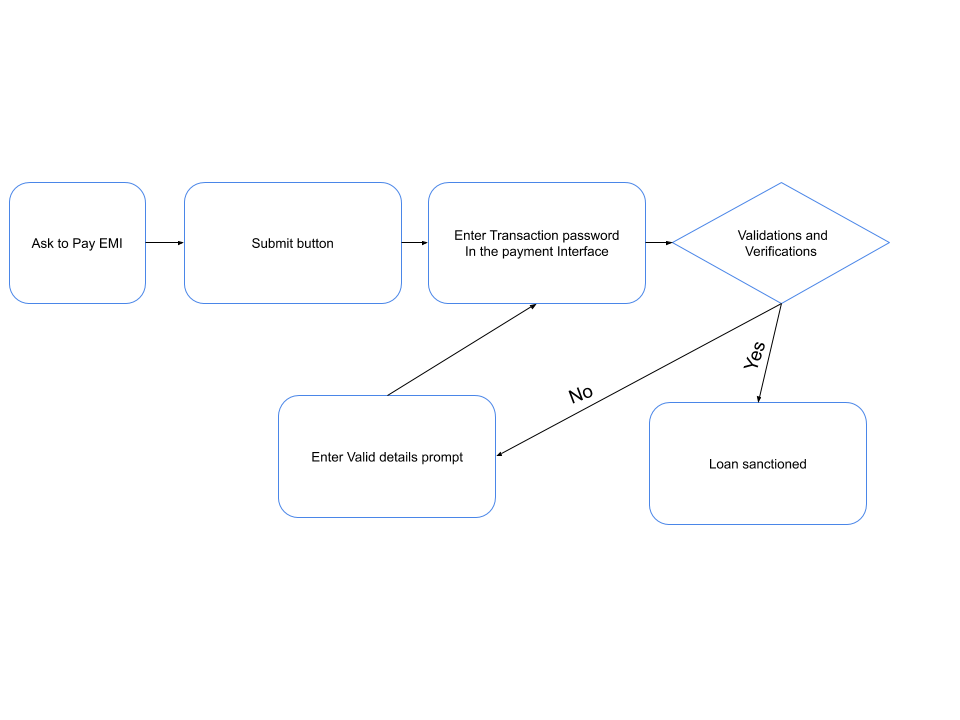
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**Print Transactions :**

**Calculate EMI:**

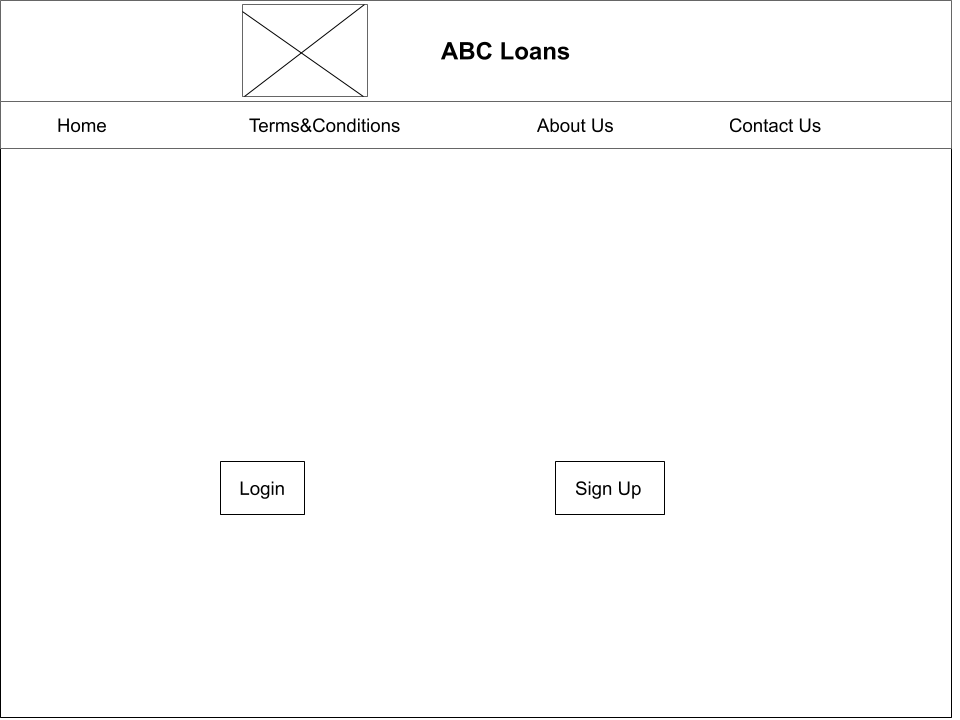
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**Pay EMI:**

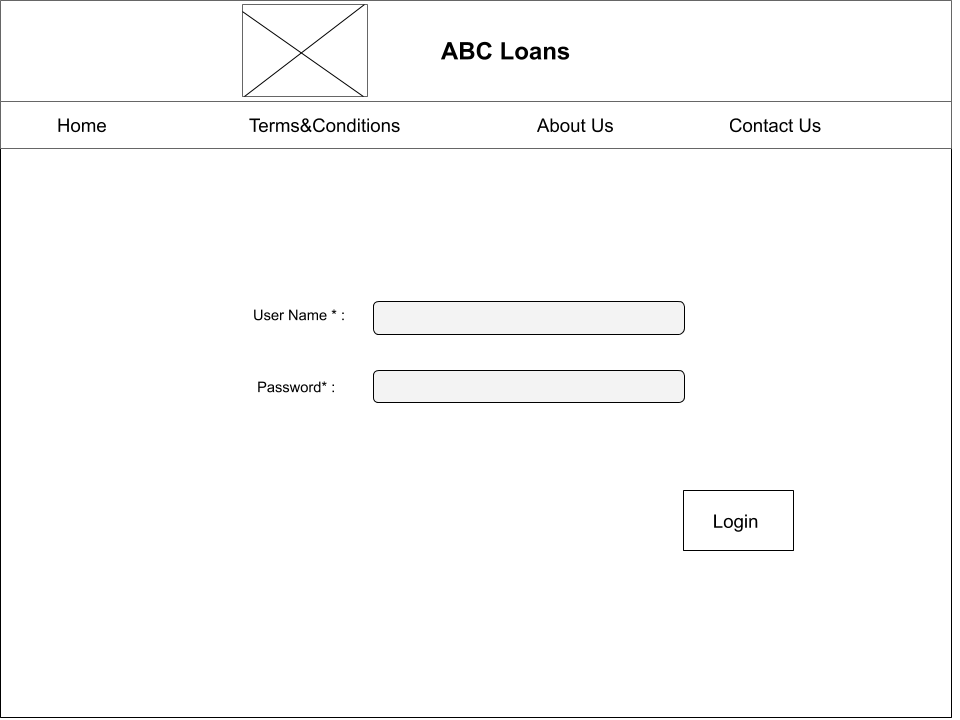
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**WIREFRAMES:**

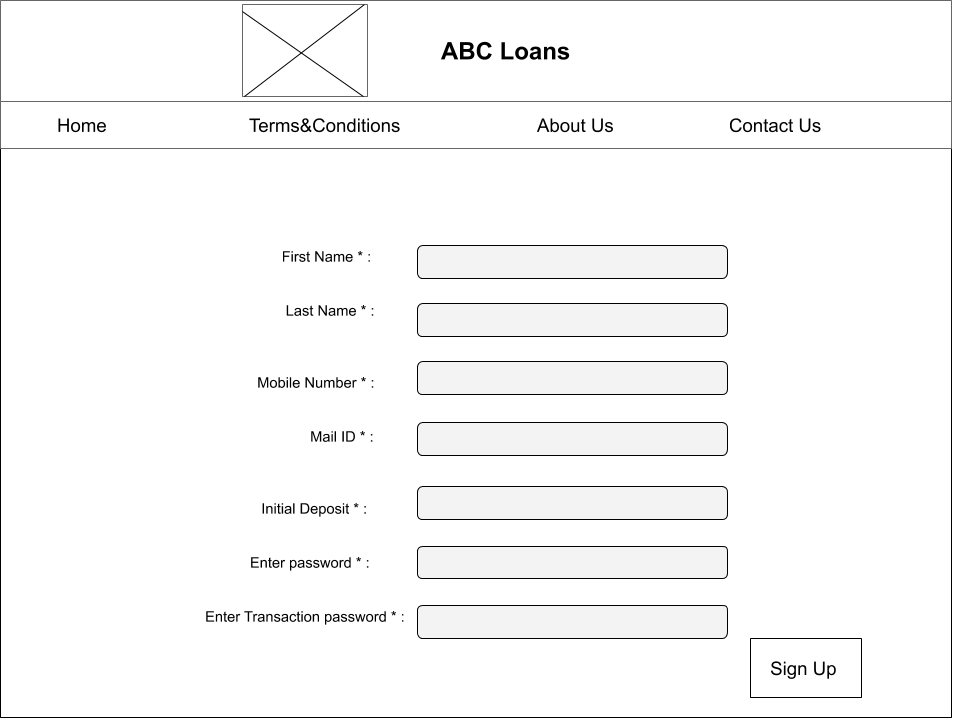
**Home Page:**

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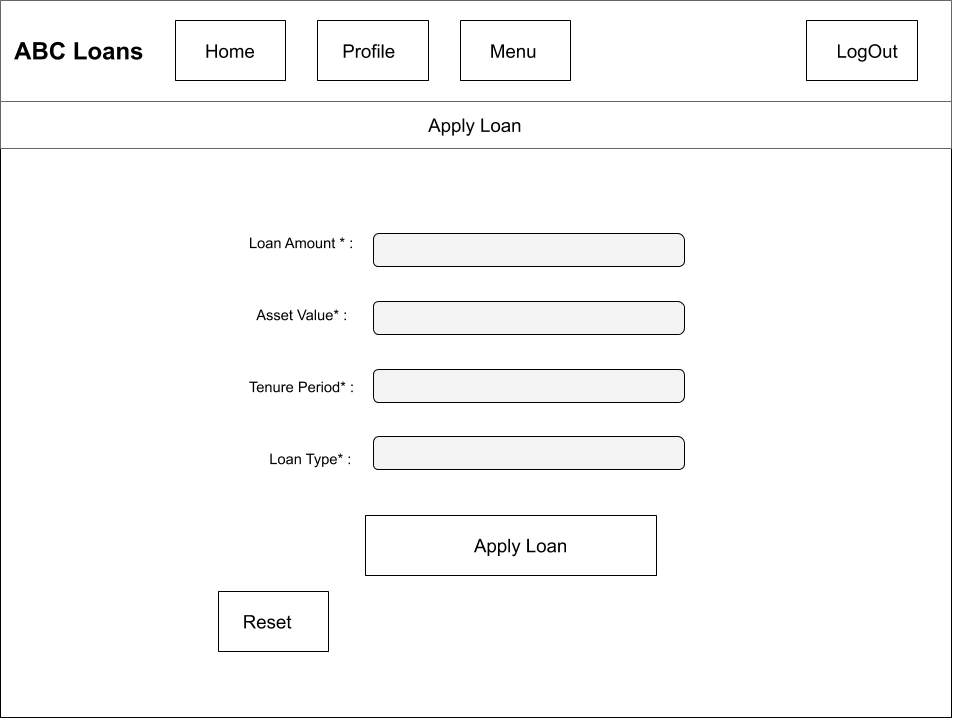
**LOGIN:**

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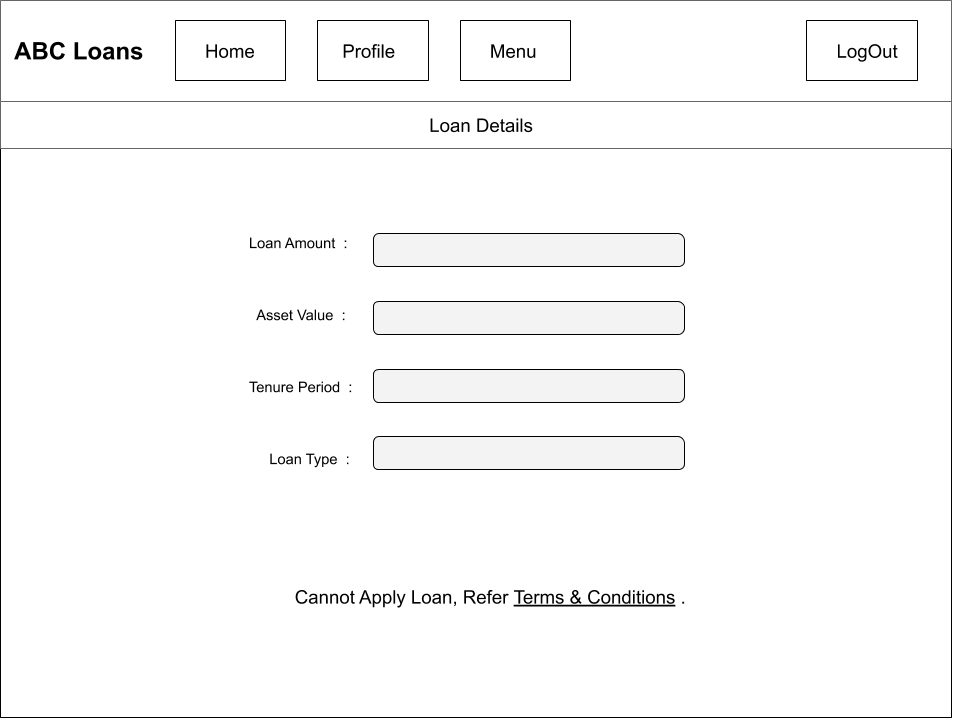
**SIGN UP:**

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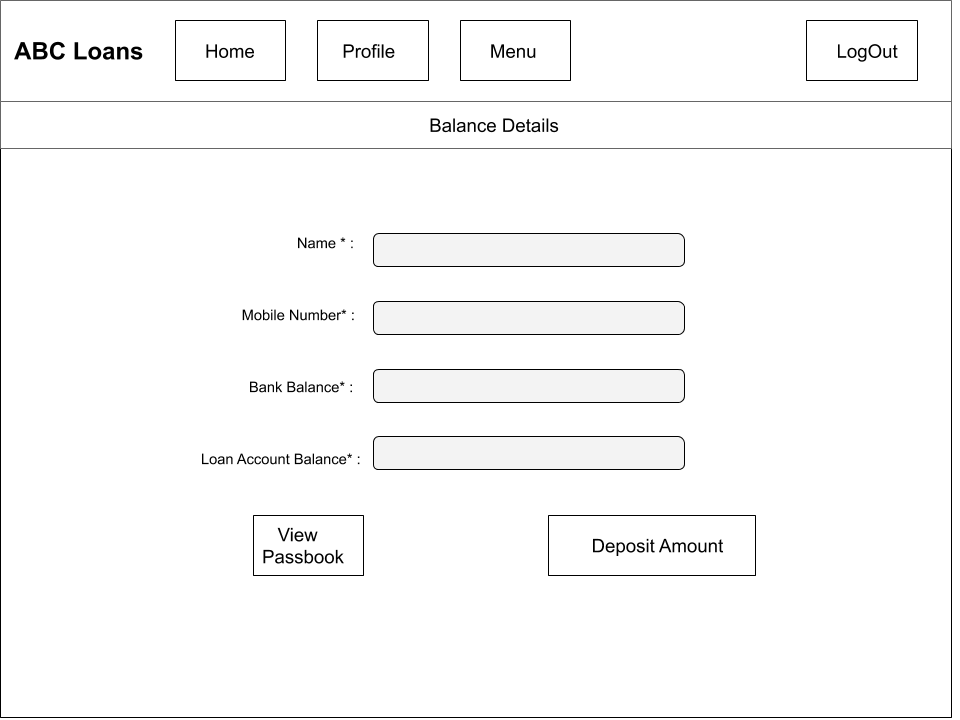
**Apply Loan:**



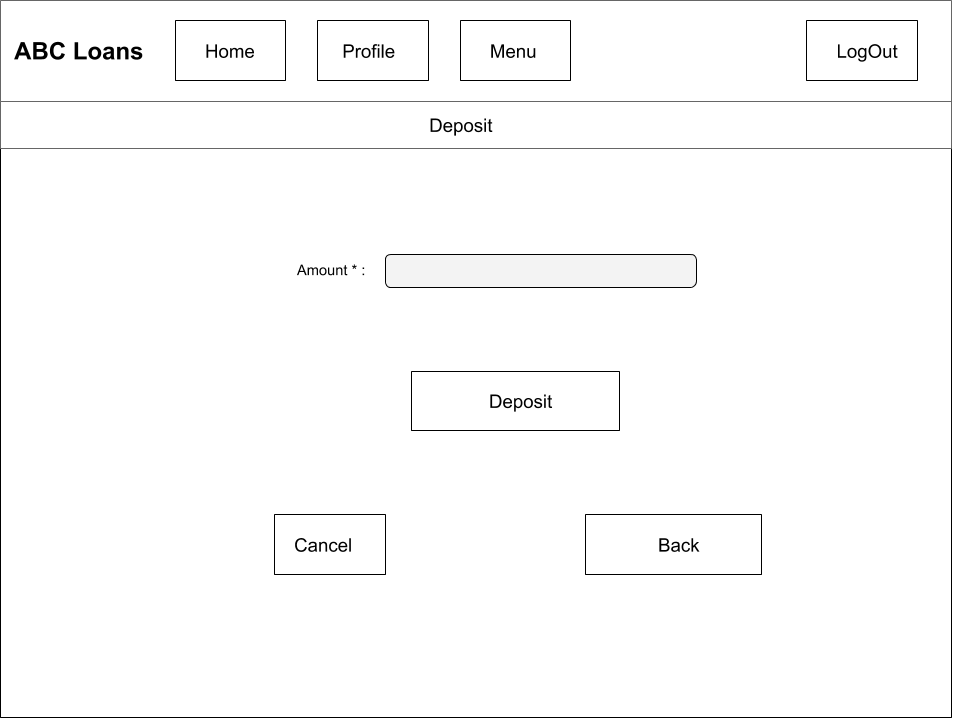
**Loan Details :**

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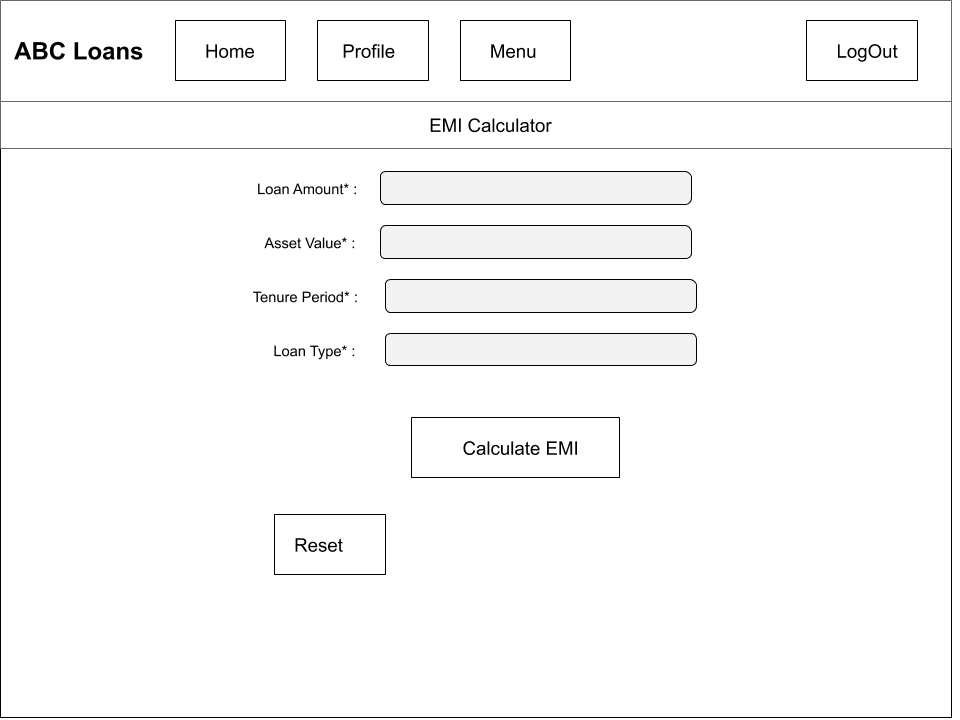
**Check Balance :**

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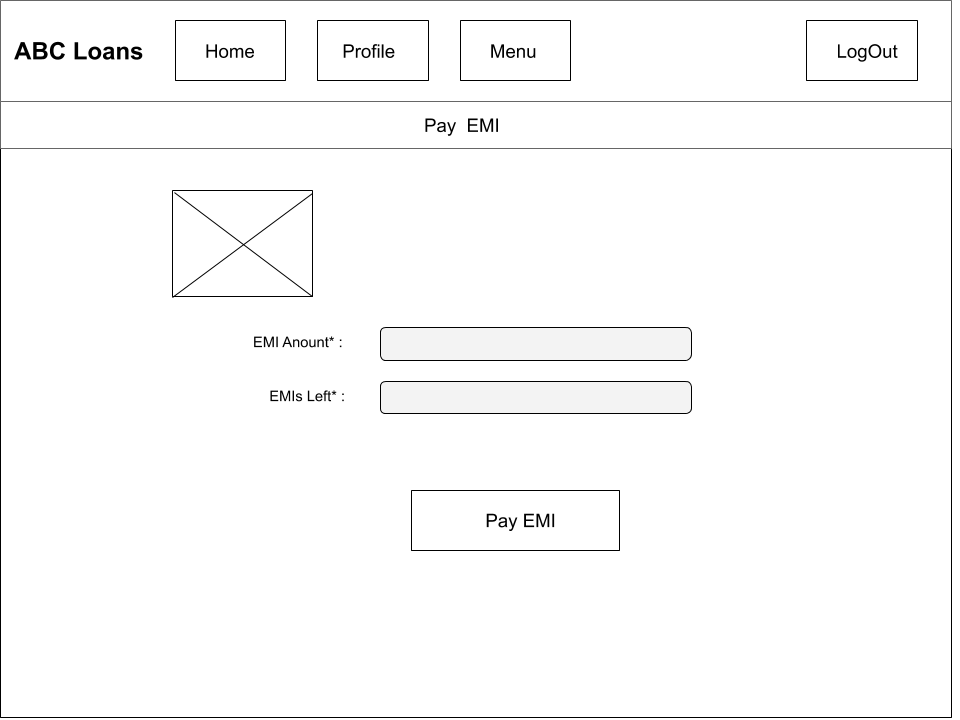
**Deposit :**

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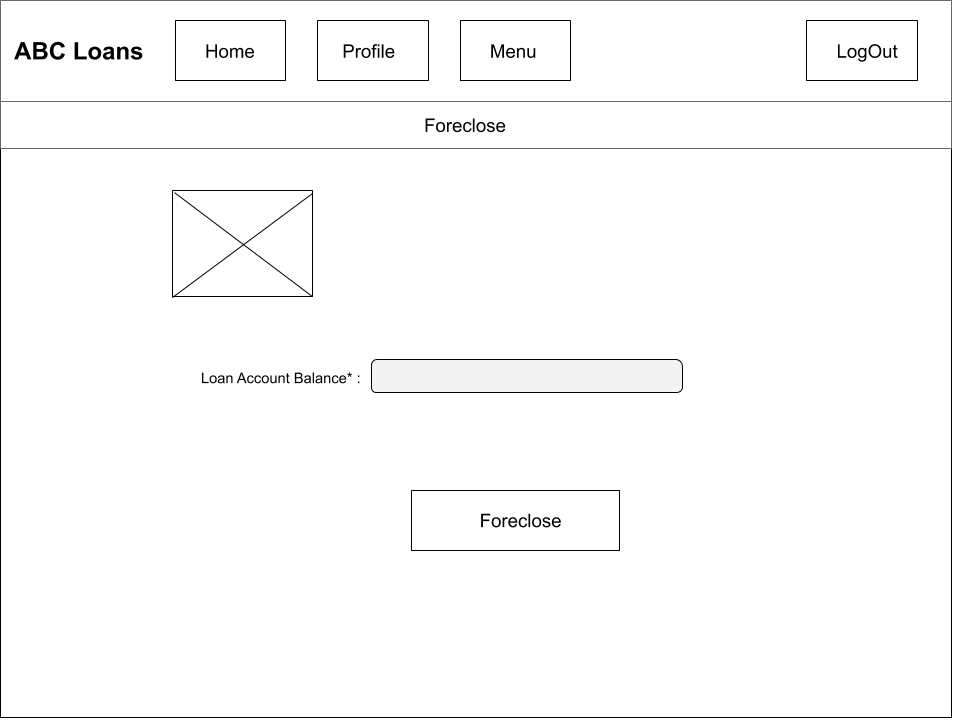
**Calculate EMI :**

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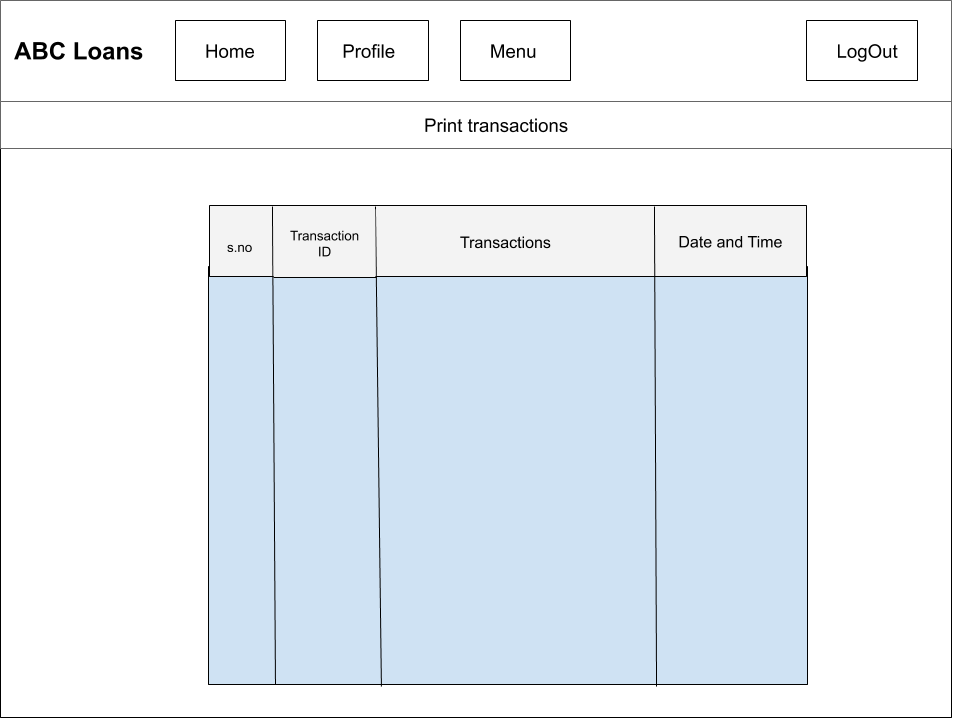
**Pay EMI :**

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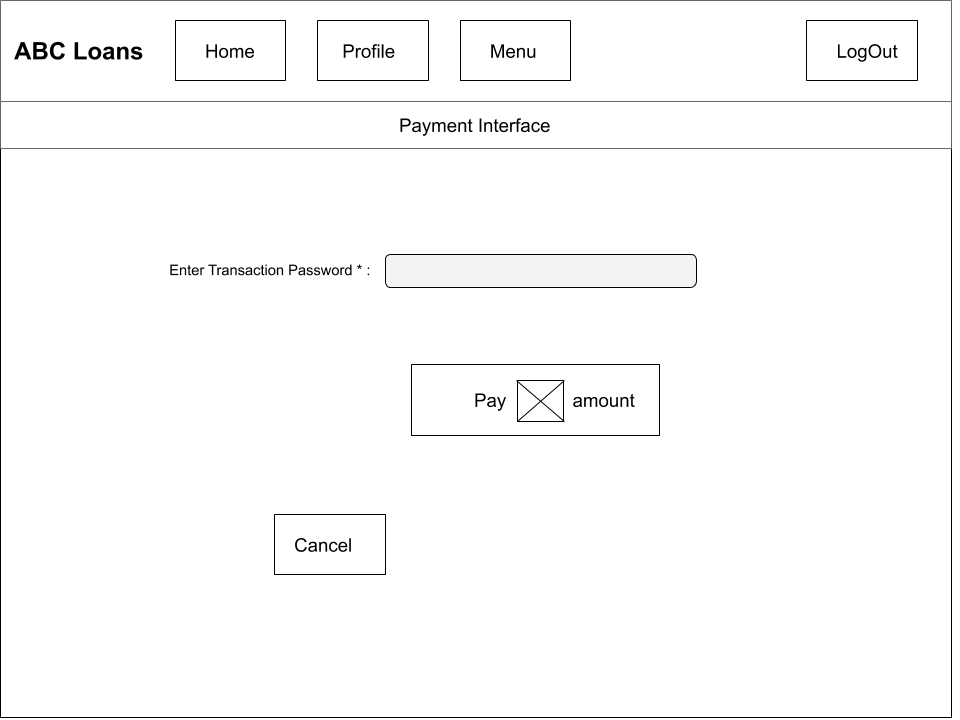
**Foreclose :**

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**Print Transactions :**

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**Payment Interface :**

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