

# Vehicle loan

## Case Study



## Topic – Vehicle Loan System

### Domain - Finance

### Project Description:

Getting a loan is a very tiring and complicated process in India. It may take from weeks to months for loans to get approved and people have to visit the office again and again for documents and verification. This processing time can be reduced if we go for online solution of the same problem from bank as well as customer's side. We would like to make end-to-end loan cycle management. This will be helpful for all customer interaction with 360 degree view of customer across organization. With the implementation of this system we will have robust and real time analytics, customized reports and user specific layout. Also by implementing this we need not to worry to carry forward the data from local region to global regions.

The main functionality of this system will be check the requirement of the customer and after verification provide online loan as soon as possible and track user record.

### Factors Affecting Car Loan EMI:

- Loan Amount: Amount borrowed by a borrower from bank. If you apply for a higher loan amount, your monthly EMI will be high.
- Interest Rate: It is rate charged by Bank on the vehicle loan. Higher interest rate increases your loan EMI which will increase total cost of loan.
- Loan Tenure: It is the period in which you can repay your loan to BANK. Longer loan tenure means lower car loan EMI.

### Mandatory Modules and Description:

#### 1. User:

Steps:

- Home:  
The web homepage includes the login of user, if user is not registered then user will register first and the login into the website. Without login they can only access the basic information.
- User-Registration:  
If User is new to website, then user can register himself and provide the necessary information. If user do not have any bank account, then too user can register.
- User-Login:  
In Login page user will enter the login id and password to get the access to more information and user will be able to apply for the loan of his choice.
- Apply for loan:  
In this page user can see the different schemas for loan and according to his preference and choice user can apply for the loan.

#### 2. Admin

- Home:  
The same web homepage includes the login of admin.
- Login Admin:  
Admin can login by admin id and password. After login admin will be redirect to dashboard where admin can control all the action and verifies the document.
- Dashboard:  
In dashboard admin can see all the details about user and their activity and track all the loan details.
- Verify:  
If user upload any document, then admin is the person who can verify the data. After verifying admin will create the bank account for user.

### 3. Calculate EMI-

- Amount
- Duration
- Interest Rate

$$E = P * R [ ((1+R)^n) / (((1+R)^n) - 1) ]$$

P: Principal Amount

R: Rate of Interest per month

n: Tenure of loan in months

E: EMI

After filling all the entries, calculator will calculate the EMI value.

### 4- Check Eligibility-

#### 1- Get Eligibility-

User Need to give details of vehicle details, personal information details, income details etc to get eligibility for the loan.

#### 2- Complete Application-

User will upload all the documents such as Aadhar card details, PAN card details, address proof, salary slip of last 6 month etc.

After this admin will verify whether to approve loan or not based on user details.

Sample Output Screen for reference:

## 1- Home Page



**Fig 1: Homepage**

**Description:** The Homepage consists of the Home, About Us, EMI Calculator and Apply Now. Below the Nav Bar, main highlights of the bank is shown. The Homepage also consists the footer.

### 3. Get Eligibility

Apply Loan

Vehicle Details

Car Make

Car Model

Ex-Showroom Price

On Road Price

Applicant Details

Name

Age

Gender

Type Of Employment

Yearly Salary

Existing EMI

Contact Details

Mobile No

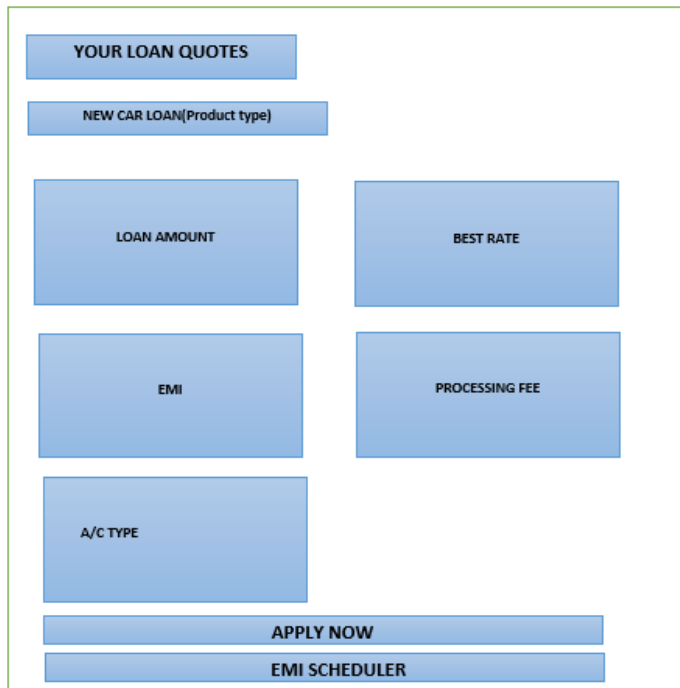
Email ID

Check Eligibility

**Fig 2a: Get Eligibility**

**Description:** After the user clicks on Apply Loan, then the user will be redirected to get eligibility check page, where the user can check if he/she is eligible to apply for loan or not.

### 3.Loan Offer



**Fig 3a: Loan Offer**

**Description:** If the user is eligible to apply for a loan, then he/she will be redirected to the Loan offer page, where he/she can decide on different Loan offers. When the user selects his preferred Loan offer, he can check for his EMI schedule, by clicking on the EMI scheduler.

### 3.Complete Application Form

Personal Details

First Name

Age

Gender

Mobile No

Email-ID

Password

Address

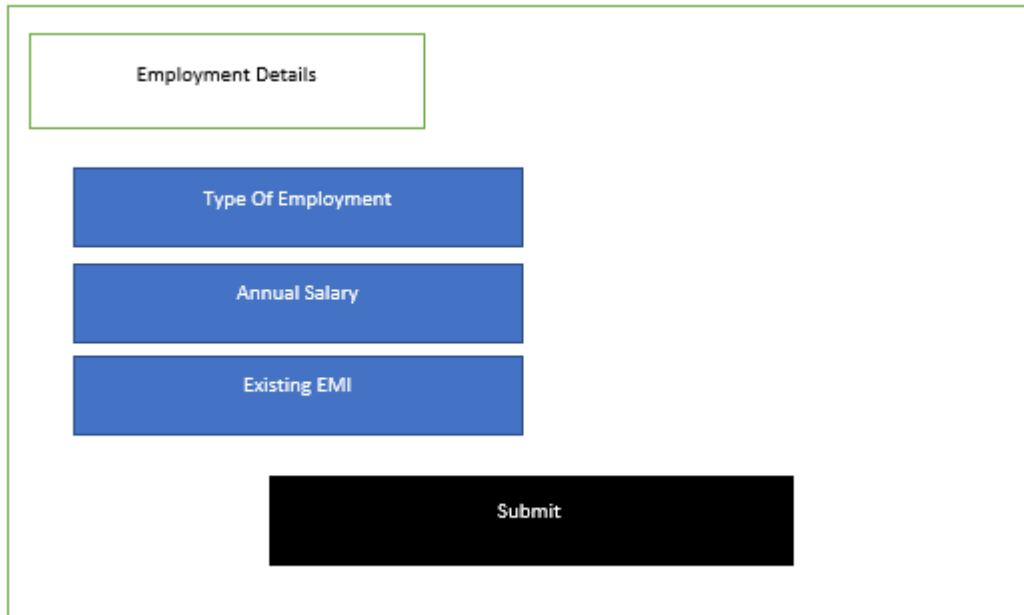
State

City

Pin code

Submit

Fig 4a: Application Form page 1



Employment Details

Type Of Employment

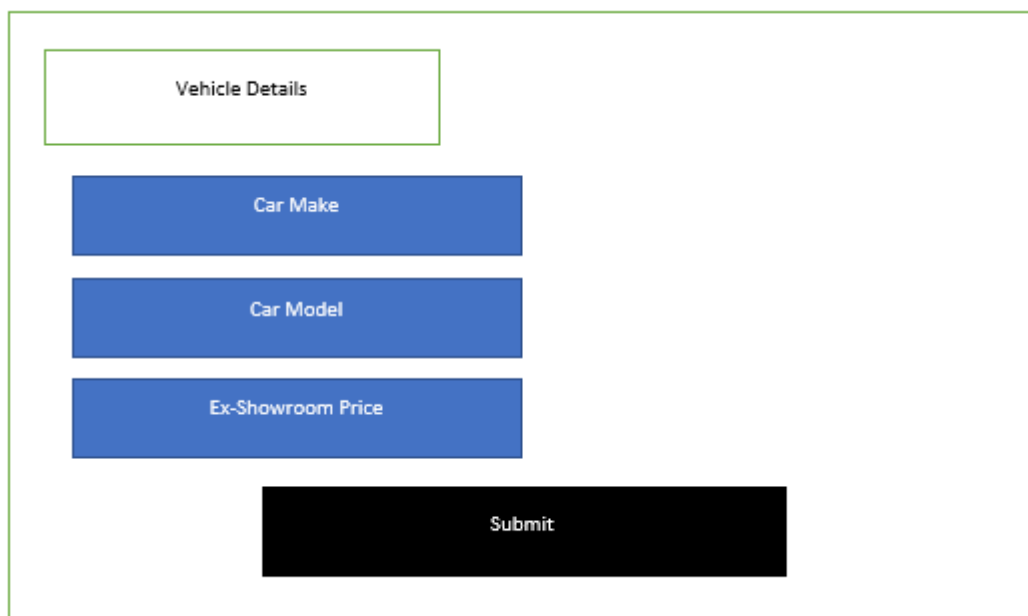
Annual Salary

Existing EMI

Submit

This diagram illustrates the layout of the 'Employment Details' section of the application form. It features a light green rectangular container. Inside, at the top left, is a white box with a green border labeled 'Employment Details'. Below this box, three blue rectangular input fields are stacked vertically, labeled 'Type Of Employment', 'Annual Salary', and 'Existing EMI'. At the bottom right of the container is a black rectangular button labeled 'Submit'.

Fig 4b: Application Form page 2



Vehicle Details

Car Make

Car Model

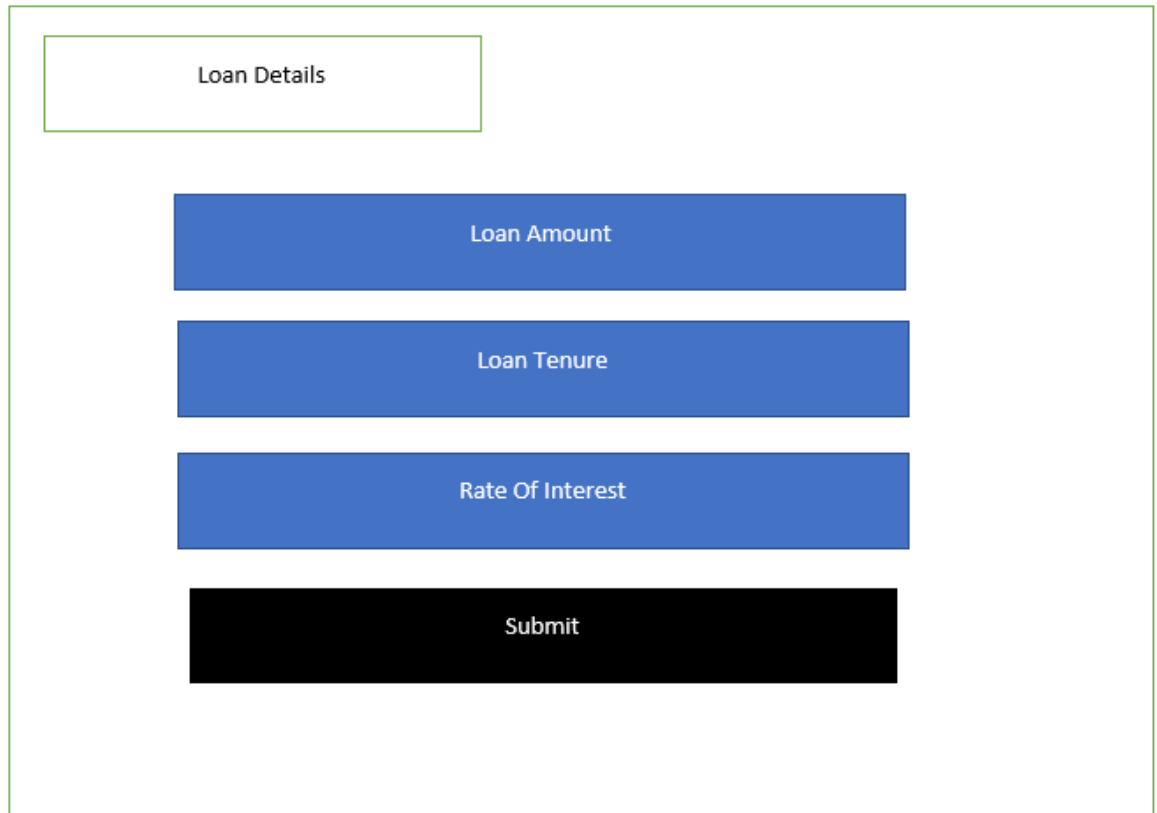
Ex-Showroom Price

Submit

This diagram illustrates the layout of the 'Vehicle Details' section of the application form. It features a light green rectangular container. Inside, at the top left, is a white box with a green border labeled 'Vehicle Details'. Below this box, three blue rectangular input fields are stacked vertically, labeled 'Car Make', 'Car Model', and 'Ex-Showroom Price'. At the bottom right of the container is a black rectangular button labeled 'Submit'.

Fig 4c: Application Form page 3





Loan Details

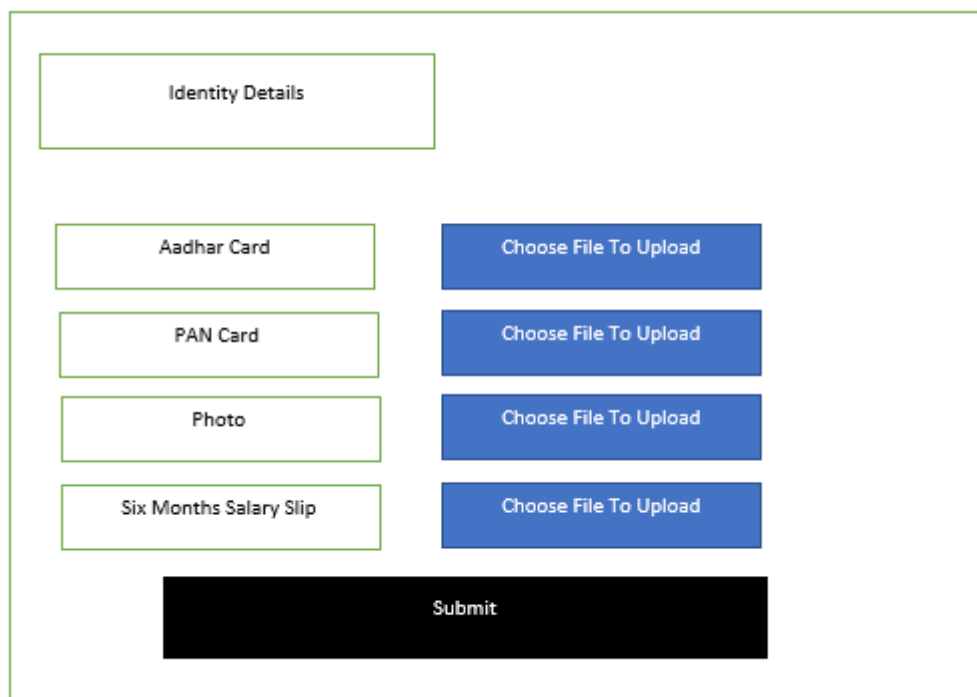
Loan Amount

Loan Tenure

Rate Of Interest

Submit

Fig 4d: Application Form page 4



Identity Details

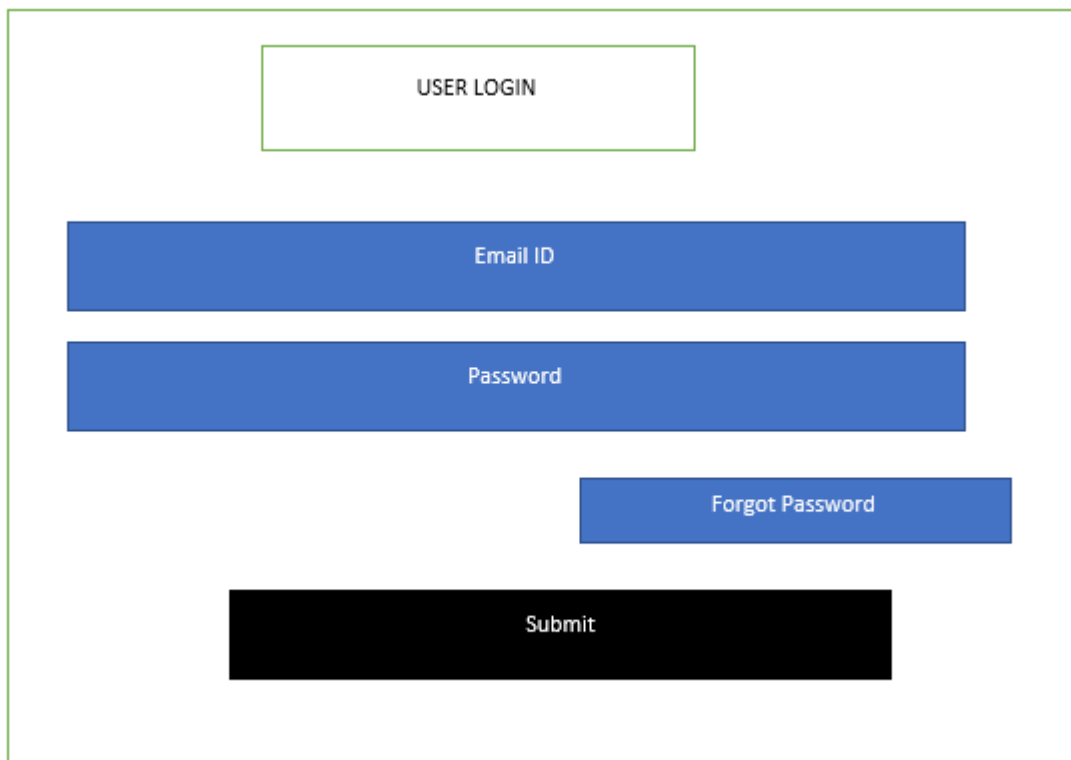
Aadhar Card	Choose File To Upload
PAN Card	Choose File To Upload
Photo	Choose File To Upload
Six Months Salary Slip	Choose File To Upload

Submit

Fig 4e: Application Form page 5

**Description:** After the user decides on his preferred loan offer, he will be redirected to the complete application form. The user must fill all the details and this application form will be sent to the Admin for verification purpose.

## 5. User Login



The diagram illustrates a user login form layout. It is enclosed in a light green rectangular border. At the top center, there is a white rectangular box with a thin green border containing the text "USER LOGIN". Below this, there are two stacked blue rectangular input fields. The top blue field contains the text "Email ID" and the bottom blue field contains the text "Password". To the right of the "Password" field, there is a blue rectangular button with the text "Forgot Password". At the bottom center of the form, there is a black rectangular button with the text "Submit".

Fig 5a: User Login

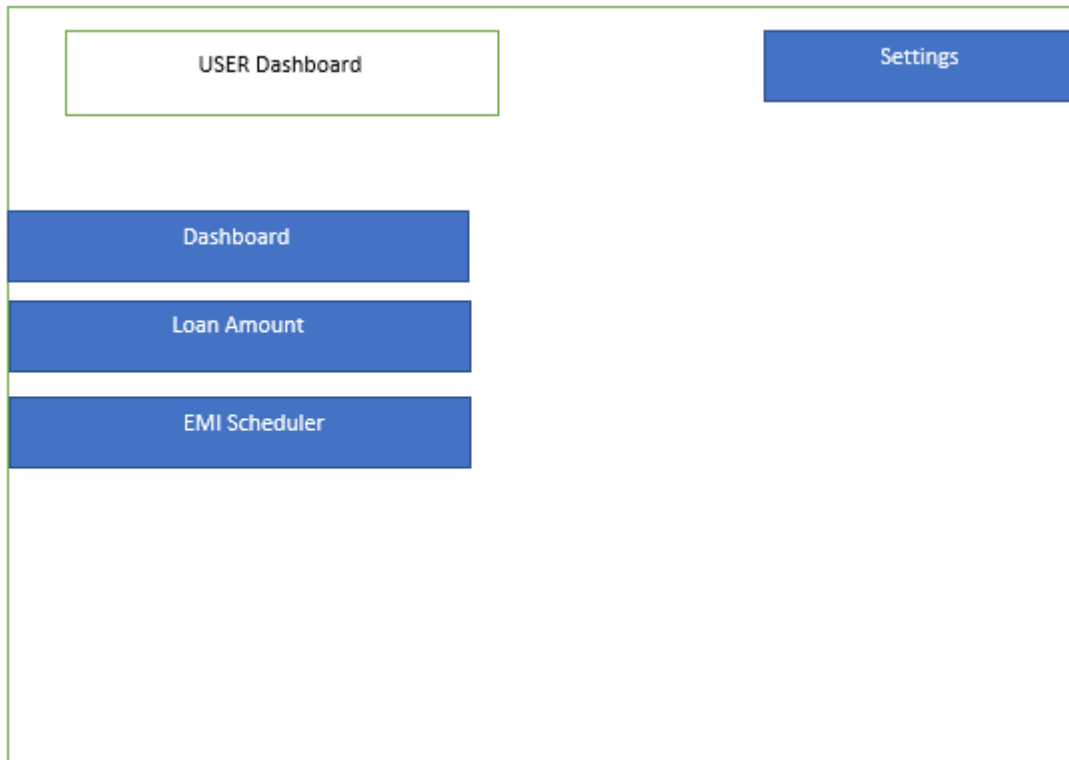
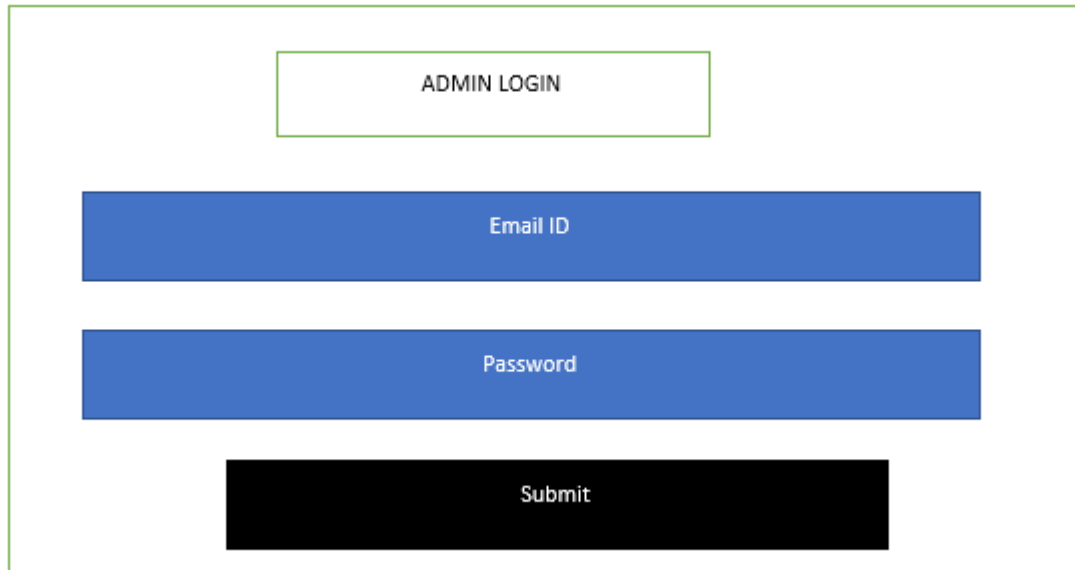


Fig 5b: User Dashboard

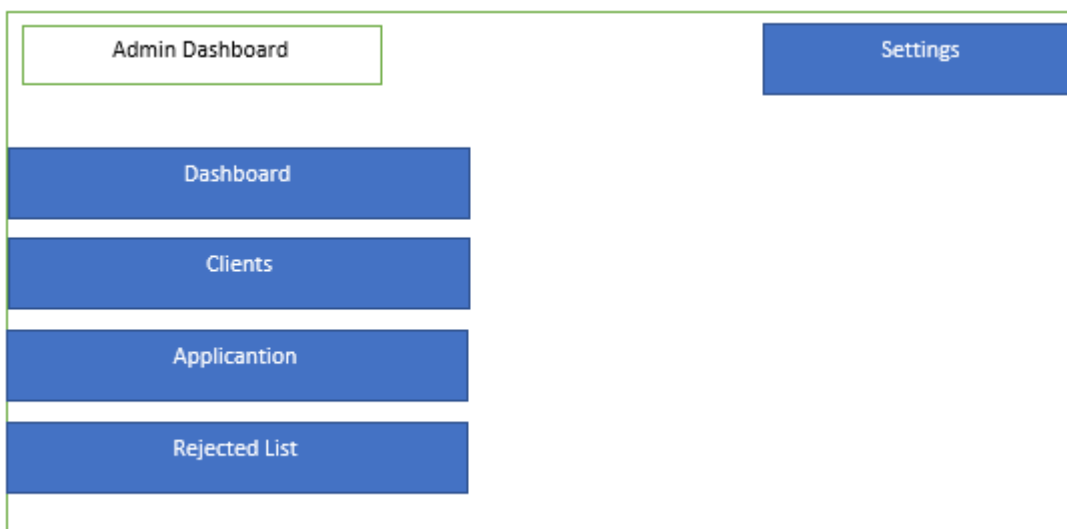
## 6.Admin Login



A diagram of an admin login form. It consists of a white rectangular container with a green border. Inside, at the top, is a white box with the text "ADMIN LOGIN". Below this are two blue rectangular input fields, the first labeled "Email ID" and the second labeled "Password". At the bottom is a black rectangular button labeled "Submit".

**Fig 6a: Admin Login**

**Description:** The admin login page consists of username and password. The admin must fill the details and click on Login.



A diagram of an admin dashboard layout. It features a white rectangular container with a green border. At the top left is a white box labeled "Admin Dashboard". At the top right is a blue box labeled "Settings". Below these, on the left side, is a vertical stack of four blue rectangular buttons labeled "Dashboard", "Clients", "Applicantion", and "Rejected List".

### Fig 6b: Admin Login

**Description:** After the admin logs in on his account, he will be redirected to admin dashboard, where he can check for clients, new applicants, and users whose loan application are rejected.

## Agile Methodology:

### Abstract:

Agile development is a group of software development methodology based on iterative and incremental development, in which requirements and solutions evolve through collaboration between self-organizing, cross-functional teams.

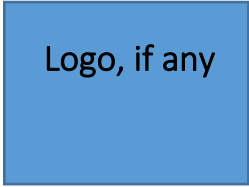
Steps to follow in Agile methodology:

- You need to identify various user stories and its modules/tasks which needs to be implemented in the project as a part of Sprint planning.
- Divide all the user stories in two Sprints. Duration of each Sprint will be 3 days.
- Any backlogs of Sprint 1 should be included in Sprint 2 along with stories of Sprint 2.
- You need to prepare Scrum boards for each sprint. You can include both sprints in one scrum board if there is enough space for the same.

Instructions for writing scrum board:

- Chart papers, sketch pens, measurement scale and sticky notes will be provided for scrum board preparation.
- You need to decorate your scrum board well and it should be clean, visible and self-explanatory.
- Discover a unique name for your project.
- Mention Group Number, TL and group member's name in the scrum board.

## Format for Scrum Board:

Your Project Name					
Team Leader: <Name> Group Members: 1. 2. 3.					
User Story	TO DO	In Progress	Impediments	To Verify	Done