

Capstone Project Report

FinFlex

Financial Technology System



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Introduction

The FinFlex system is designed to revolutionize the management of loans, clients, and payments in financial institutions. By replacing traditional manual methods, this software aims to streamline processes, reduce human error, enhance efficiency, and improve customer service. FinFlex ensures faster computations, accurate tracking, and timely notifications, making it an indispensable tool for financial managers.

Scope

FinFlex is designed for financial institutions or managers involved in loan and payment management. Its key functionalities include:

- **Loan Management:** Approve or reject loans, track payments, and calculate revenue.
- **Client Management:** Maintain client details and streamline communication.
- **Payment Management:** Notify managers about upcoming payments and provide reporting tools.

With its modern, scalable, and user-friendly interface, FinFlex aims to enhance customer satisfaction and operational efficiency

Tech Stack

- React
- MySQL
- Tailwind.css
- MUI-material
- Emailjs



Features

Loan Management

- Simplifies loan application, approval, and payment tracking.
- Create, view, and update loan details.
- Approve or reject loan applications.
- Shows comprehensive loan status reports.

Client Management

- Stores client information and facilitates seamless communication.
- Maintain a database of client details.
- Add or update client information.

Payments Management

- Automates payment tracking and reminders.
- Record and update payment transactions.
- Send reminders for upcoming payments.
- Shows comprehensive payment status reports.

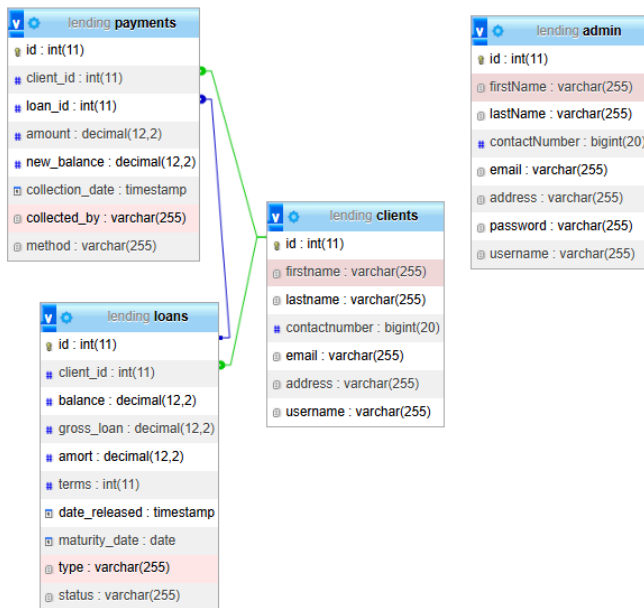
Email Communication

- Send email notifications for:
 - Loan application updates.
 - Payment reminders.
 - Overdue payment alerts.

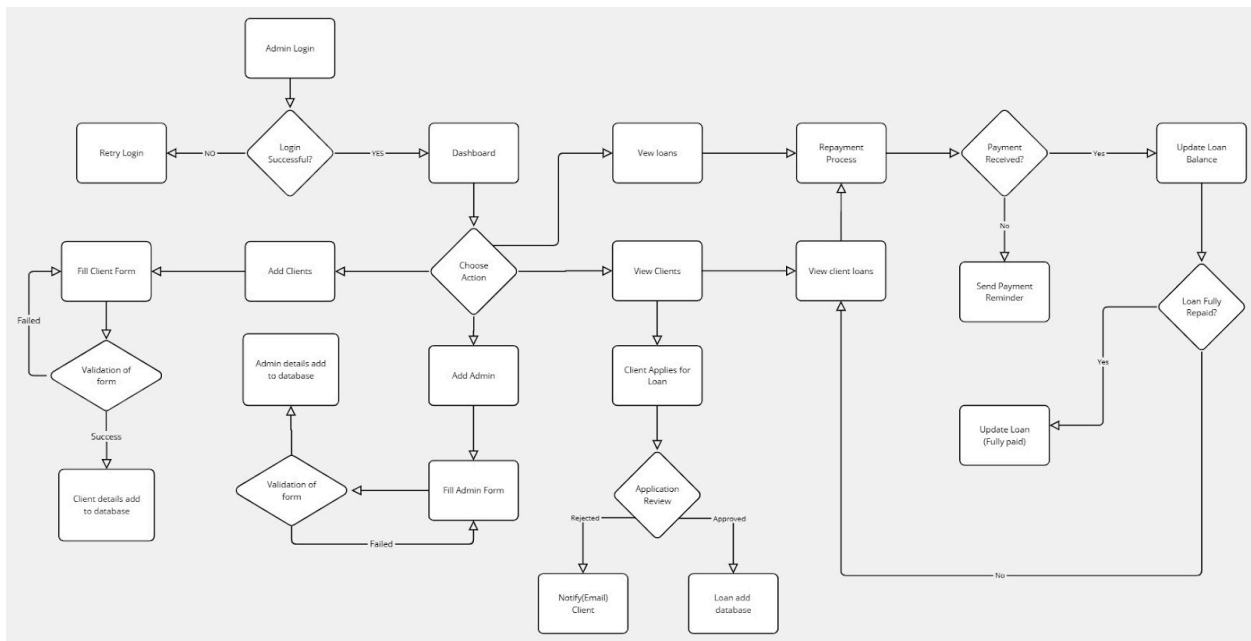
References

- [Tailwind CSS Documentation](#)
- [React Documentation](#)
- [MySQL Database Guide](#)
- [MUI Material UI Library Guide](#)

DB Diagram

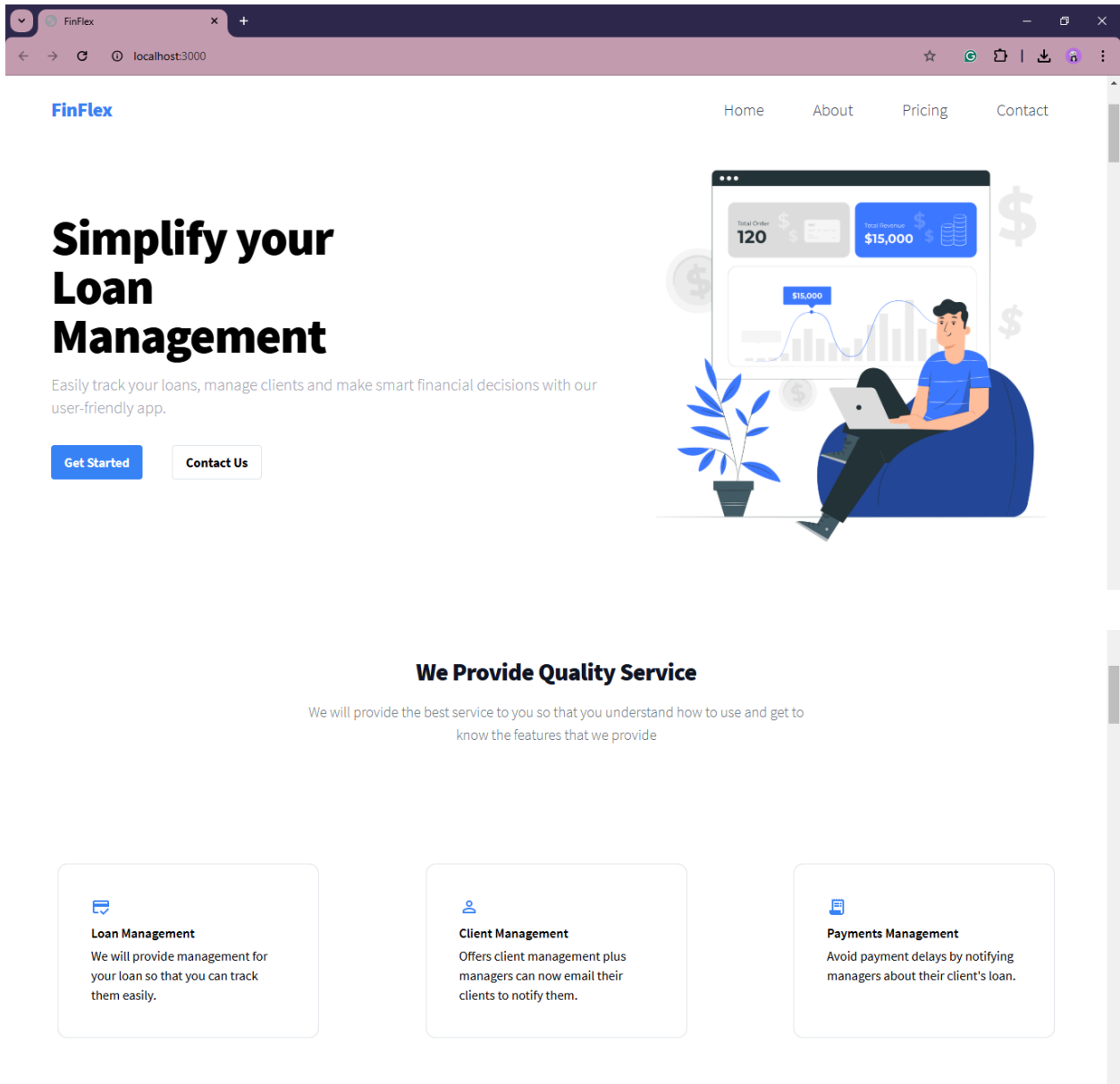


DFD Diagram



Application Output -

Home Page



With FinFlex, see how loans are released and Succeed.

You can create loans, update their amounts and approve pending loans.

- ✓ Continuous integration and deployment
- ✓ Development workflow
- ✓ Loan management

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FinFlex

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Communicate with your clients through the app.

Instantly notify your clients with their upcoming loan payments. Update them with their balance or tell them that their loan has been approved and ready for disbursement.

- ✓ Send Email
- ✓ Notify clients
- ✓ Send Loan Status / Approvals

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Designed for business teams like yours

Here at FinFlex we focus on markets where technology, financing, and capital can unlock long-term value and drive economic growth.

Starter	Company	Enterprise
Best option for personal use & for your next project.	Relevant for multiple users, extended & premium support.	Best for large scale users and extended redistribution rights.
₹ 15k /month	₹35k /month	₹70k /month
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Get started	Get started	Get started

Contact Us

Got a technical issue? Want to send feedback about a beta feature? Need details about our Business plan? Let us know.

Your email

FinFlex@gmail.com

Subject

Let us know how we can help you

Your message

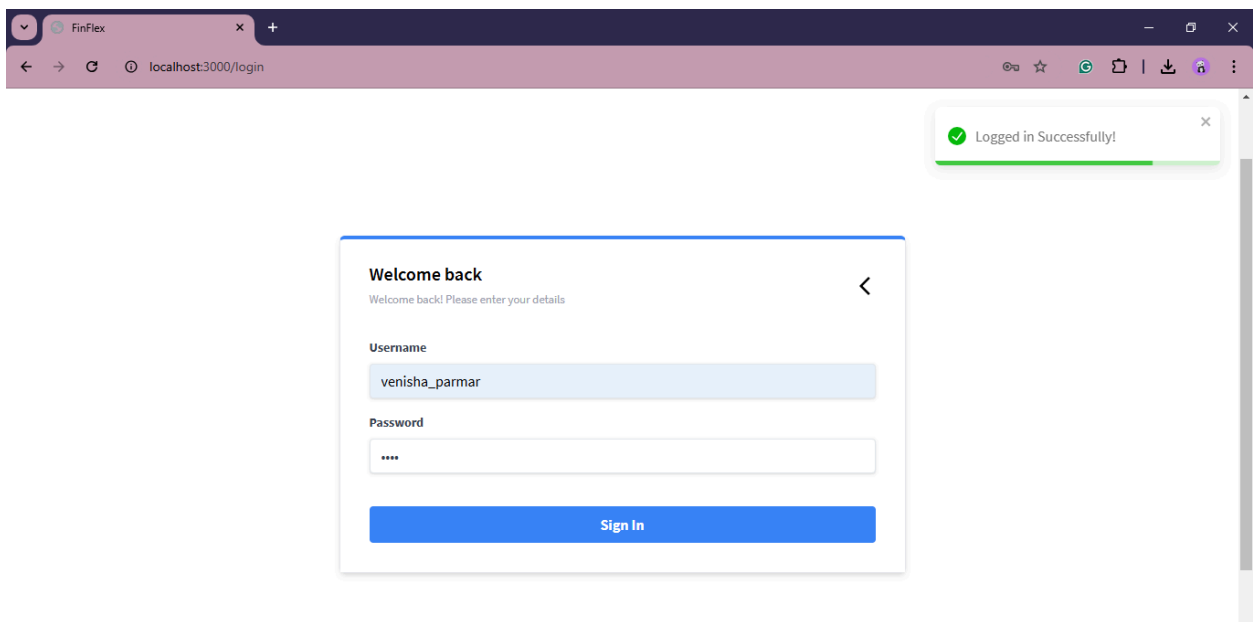
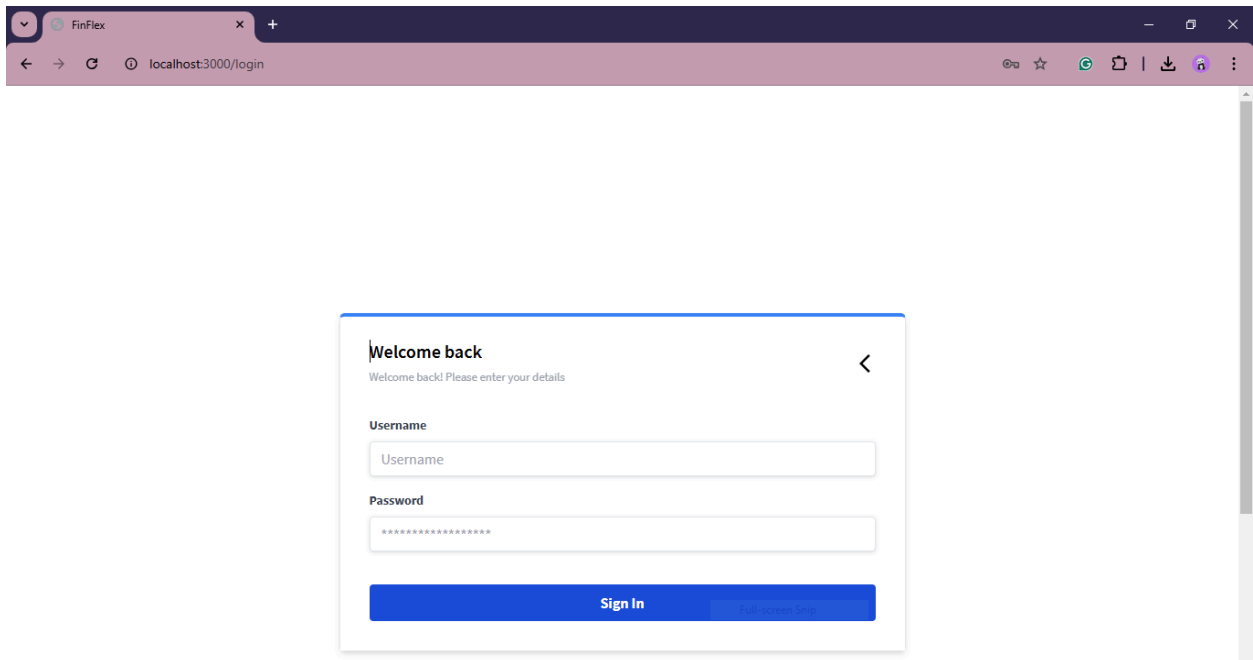
Leave a comment...

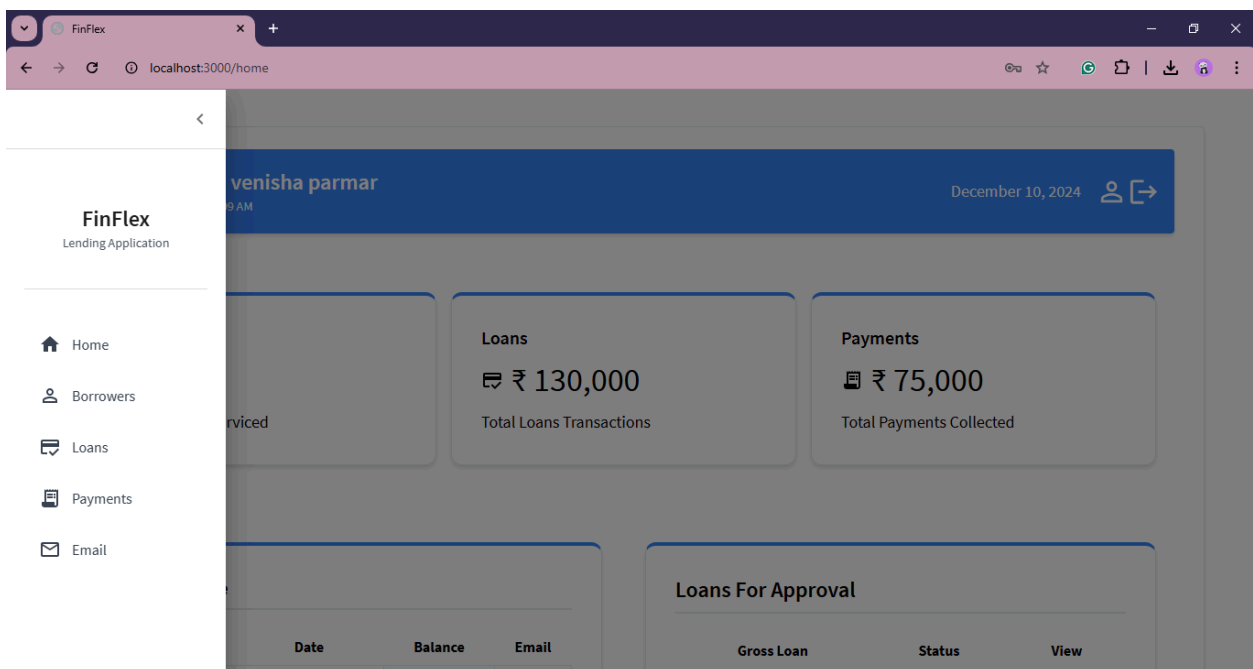
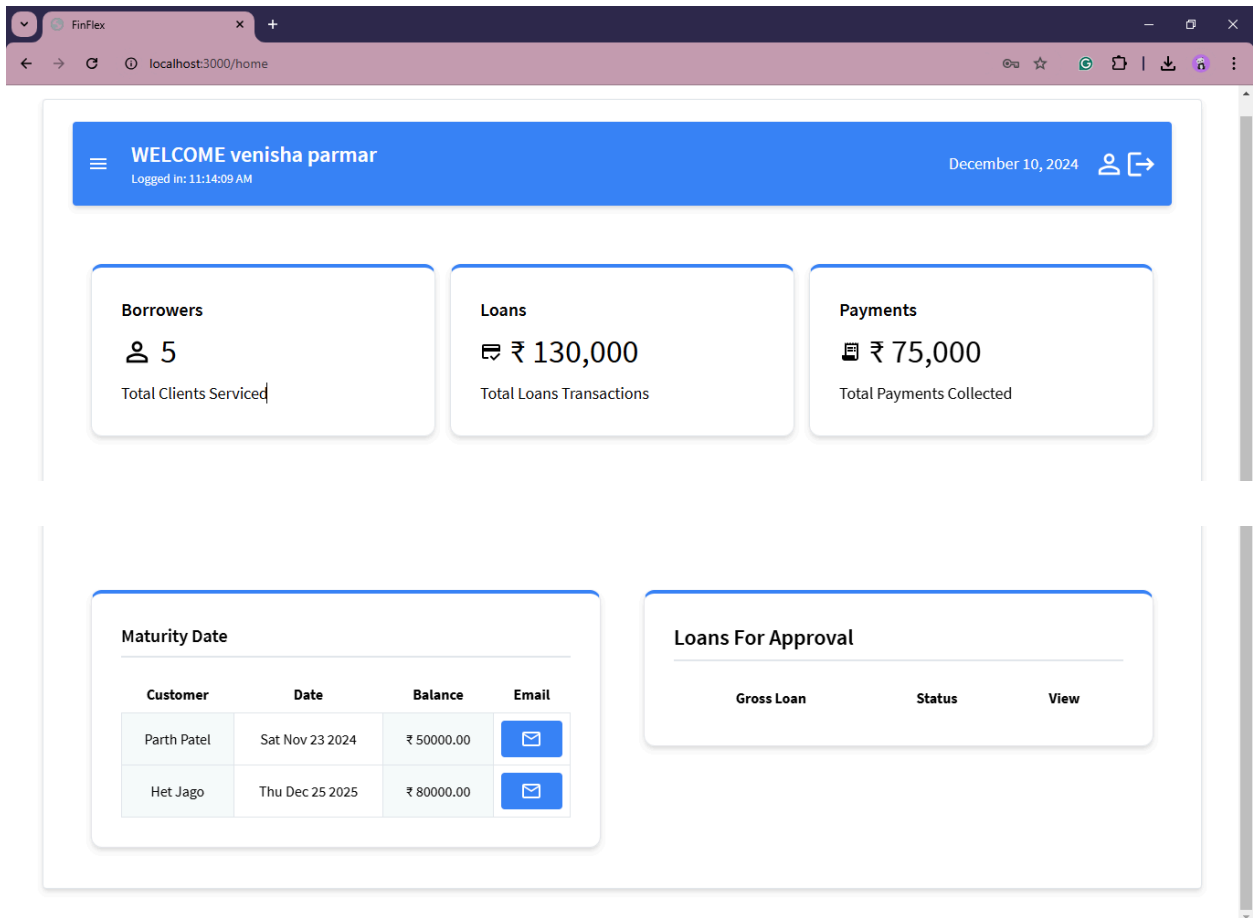
[Send](#)

FinFlex.

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FinFlex

localhost:3000/admin

WELCOME venisha parmar
Logged in: 11:16:39 AM

December 10, 2024

Account Details

venisha parmar

Rajkot, Gujarat

parmarvenisha725@gmail.com

9375475075

Manage Admins

Add Admin

ID	Full Name	Contact Number	Address	Email	Delete
1	venisha parmar	9375475075	Rajkot, Gujarat	parmarvenisha725@gmail.com	<div></div>

FinFlex

localhost:3000/addAdmin

Add New Admin
Register all the required fields.

First Name:
First Name

Last Name:
Last Name

Contact Number:
Contact Number

Address:
Address

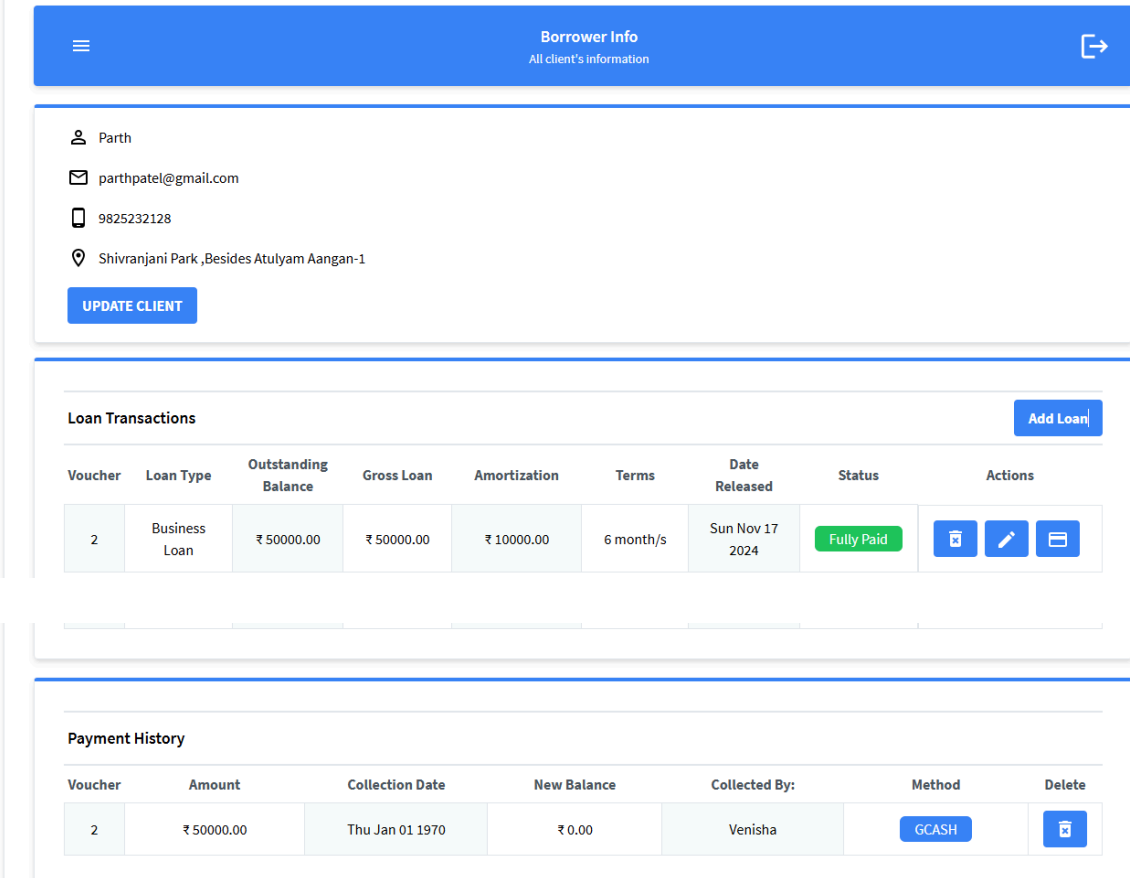
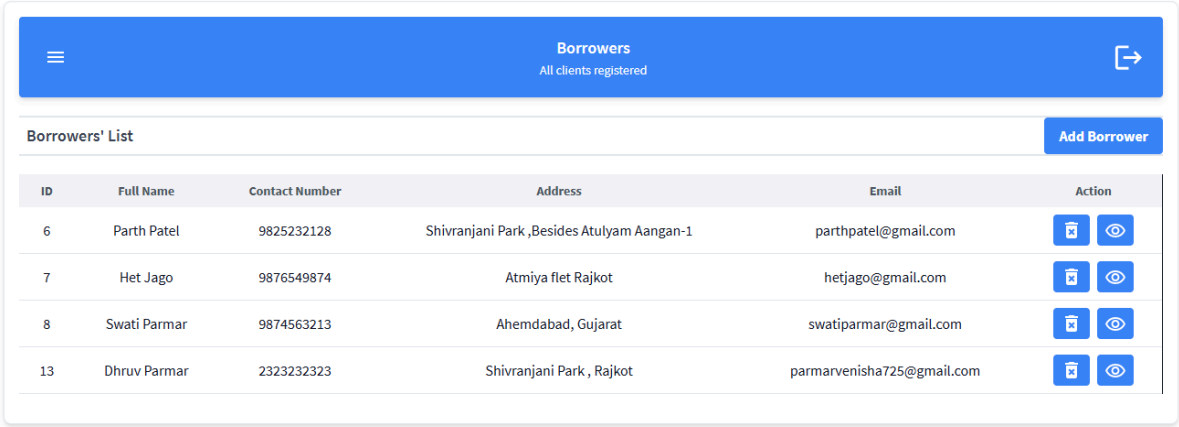
Email Address:
Email

Password:

Username:
Username

Save

Cancel





Loans Report

Loans summary and informations.

Loan Transactions

Add Loan

Voucher	Client Name	Loan Type	Outstanding Balance	Gross Loan	Amortization	Terms	Date Released	Status	Actions
2	Parth Patel	Business Loan	₹ 50000.00	₹ 50000.00	₹ 10000.00	6 month/s	Sun Nov 17 2024	Fully Paid	<div></div> <div></div>
3	Het Jago	Salary Loan	₹ 80000.00	₹ 80000.00	₹ 20000.00	12 month/s	Mon Nov 18 2024	Approved	<div></div> <div></div>



Update Loan Voucher # 2

Edit and update your loan

Loan Info

Voucher	Loan Type	Outstanding Balance	Gross Loan	Amortization	Terms	Date Released	Status
2	Business Loan	₹ 50000.00	₹ 50000.00	₹ 10000.00	6 month/s	Sun Nov 17 2024	Fully Paid

Edit Form

Loan Type:

Business Loan

Status:

Fully Paid

Gross Loan:

50000.00

Balance:

50000.00

Amortization:

10000.00

Terms:

6 Months

Date Released:

17-Nov-2024

Maturity Date:

23-Nov-2024

Update

11

FinFlex

localhost:3000/addLoan/6

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Add Loan for Client #6
Fill all the required fields.

➔

Type of Loan:
Personal Loan

Status:
Pending

Gross Loan:
Gross Loan

Balance:
Balance

Amortization:
Amortization

Terms:
1 Month

Date Released:
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Maturity Date:
dd- - - - -

Add New Loan

Cancel

FinFlex

localhost:3000/payments

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Payments Report
Summary of Collections and information.

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Payment Transactions

Add Payment

ID	Client Name	Voucher ID	Amount	Collection Date	Collected By:	New Balance	Method	Delete
2	Het Jago	3	₹ 25000.00	Sat Nov 30 2024	Jeel Butani	₹ 55000.00	GCASH	
5	Parth Patel	2	₹ 50000.00	Thu Jan 01 1970	Venisha	₹ 0.00	GCASH	

