Mobile Application for Individual Financial Entrepreneur

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***Abstract*—In today's fast-moving digital world, financial entrepreneurs need efficient means to manage business processes, pursue financial transactions, and make sound decisions. The project focuses on developing mobile applications for individual financial entrepreneurs and provides a seamless platform for managing finance, customer interactions and business analytics. The application integrates revenue, invoices, customer management, financial reporting and targeting to improve your financial planning and decision-making. Use secure authentication, real data synchronization to ensure accessibility and data security. The system is designed with a user-friendly interface and supports several financial products tailored to independent financial specialists. It was developed using HTML, CSS, JavaScript on the frontend, PHP on the backend, and MySQL as the database. This app guarantees real-time data processing, automated calculations and financial knowledge. Security measures such as data encryption and authentication protocols protect sensitive financial information. This application aims to enable financial entrepreneurs by providing comprehensive, accessible and efficient financial solutions help optimize business performance and maintain financial stability at the same time.**

***Index Terms*—Financial Entrepreneur Mobile Application Income and Expense Tracking Client Management Invoicing System Financial Reporting Business Analytics Real-time Data Processing Secure Authentication Cloud Storage User-friendly Interface Financial Planning Data Encryption**

I. INTRODUCTION

In today's digital age, financial entrepreneurs need effective tools to manage business finance, pursue transactions, and make data-controlled decisions. Traditional financial management methods can be time- consuming, susceptible to mistakes and inefficient for people managing multiple clients and revenue streams. To address these challenges, the project will provide mobile applications for individual financial entrepreneurs where financial persecution will streamline, improve customer management, and overall business efficiency.

This application serves as a comprehensive financial management solution, providing functions such as revenue and cost tracking, invoices, financial reporting, business analysis and more. By integrating secure authentication, cloud memory and real-time data processing, the system ensures that users can maintain security and accuracy at the same time, anytime, anywhere. The mobile application was developed using HTML, CSS, JavaScript on the front end, PHP on the back end, and MySQL on the database to ensure a robust and scalable system. It simplifies complex financial processes and provides an intuitive user interface that allows individual entrepreneurs to focus on business growth rather than administrative tasks.

Using this technology, this application allows financial contractors to provide an efficient, reliable, secure platform that manages financial activities, optimizes cash flow, and makes appropriate business decisions.

II. LITERATURE REVIEW

Budgetary administration is basic for business visionaries to track costs, oversee cash stream, and guarantee trade development (Gitman & Zutter, 2022). Conventional strategies like spreadsheets are inclined to mistakes, whereas versatile applications give computerization and real-time get to (Kim et al., 2021).

Existing money related apps such as QuickBooks, Wave Bookkeeping, and Zoho Books offer highlights like invoicing and cost following but are frequently

costly or complex for person business people. Inquire about highlights the require for customized, user-friendly, and secure arrangements for self- employed experts. Security is vital in budgetary apps, requiring information encryption, secure confirmation, and cloud capacity (Jain & Gupta, 2020). Also, a basic and natural UI/UX is imperative for selection (Nielsen, 2019). This venture addresses the hole by creating a reasonable, open, and custom-made monetary administration app for person business people, combining real-time following, computerization, and upgraded security to move forward budgetary decision-making.

III. RESEARCH METHODOLOGY

The investigate technique for the Portable Application for Person Monetary Business people extend is planned to guarantee the improvement of a vigorous, secure, and user- friendly budgetary administration apparatus.

The taking after steps diagrams the technique received for this extend:

1. Requirements Gathering and Analysis

The primary step includes understanding wants and desires of person monetary business visionaries. Overviews and interviews will be conducted with a little gather of money related experts to assemble data on the highlights they require for monetary following, invoicing, client administration, and detailing. This will offer assistance in making a include list that addresses the particular needs of business people.

2. System Design

Based on the prerequisites, the framework will be outlined employing a client-server engineering, where the versatile application serves as the front conclusion, association with a backend server and a secure MySQL database. The plan stage will incorporate UI/UX plan to guarantee the app is instinctive and simple to explore.

3. Development and Implementation

The portable application will be created utilizing:

- Front-end: HTML, CSS, and JavaScript for a responsive and intelligently client interface.
- Back-end: PHP for server-side preparing and MySQL for database administration, guaranteeing secure information capacity and recovery.
- Security: The app will coordinate encryption calculations, client confirmation, and secure cloud capacity to ensure delicate budgetary information.

4. Testing

To guarantee the app meets utilitarian and security measures, broad testing will be carried out:

- Unit testing for individual components.
- Integration testing to guarantee appropriate communication between the front-end, back- end, and database.
- Client acknowledgment testing with a little bunch of business visionaries to guarantee the app meets their needs and is user-friendly.

5. Evaluation

After the testing stage, the app's viability will be assessed based on:

- Client input on usefulness, plan, and ease of utilize.
- Execution measurements such as reaction time, information synchronization, and adaptability.
- Security reviews to guarantee the app follows to industry benchmarks.

6. Deployment and Maintenance

Once the application passes all testing stages, it'll be sent on a cloud stage for availability. Standard upkeep will be conducted to address bugs, upgrade highlights, and guarantee compatibility with unused versatile working framework adaptations.

IV. DATABASE DESIGN

Table 1: Customers

Name	Type
id	int (11)
full_name	varchar (255)
address	text
phone_number	varchar (15)
alt_number	varchar (15)
loan_apply_date	date
loan_amount	decimal (10,2)
interest_rate	decimal (5,2)
status	Enum ('Approved ', 'Rejected', 'Pending')
confirmation_date	date
no_of_months	int (22)
due_per_month	decimal (10,2)
profile_photo	varchar (255)

Table 2: Payments

Name	Type
id	int (11)
customer_name	varchar (255)
amount_paid	decimal (10,2)
paid_date	date
total_loan_amount	decimal (10,2)
mode_of_payment	Enum ('Cash', 'Card', 'Online', 'Cheque')
no_of_due	int (11)
dues_paid	int (11)
remaining_due	int (11)
created_at	timestamp
phone_number	varchar (15)

Table 3: Settlements

Name	Type
id	int (11)
phone_number	varchar (20)
settlement_dues	decimal (10,2)
total_amount	varchar (50)
settlement_date	date

Table 4: Backup Customers

Name	Type
id	int (11)
full_name	varchar (255)
address	varchar (255)
phone_number	varchar (15)
loan_apply_date	date
loan_amount	decimal (10,2)
interest_rate	decimal (5,2)
status	varchar (50)
confirmation_date	date
no_of_months	int (11)
due_per_month	decimal (10,2)

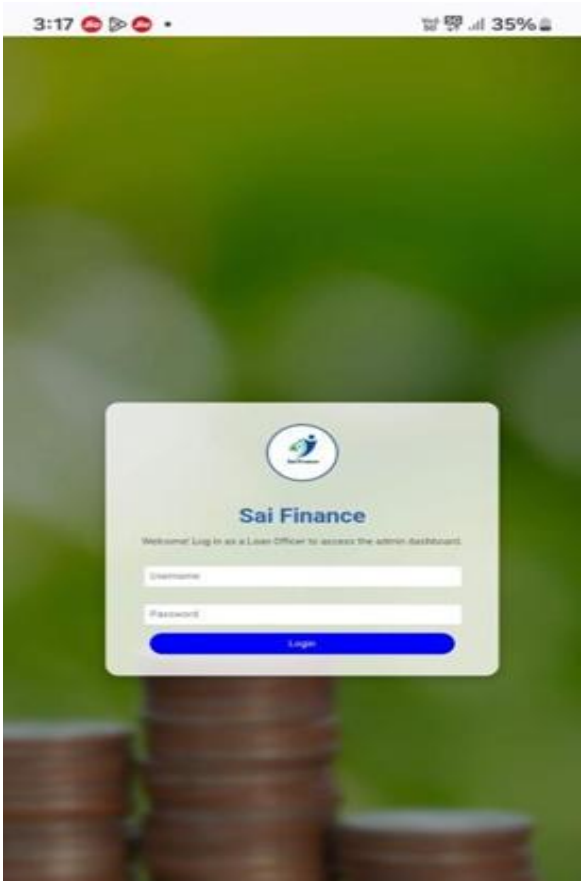
V. CONCLUSION

The Mobile Application for Individual Financial Entrepreneurs gives a comprehensive, proficient, and secure arrangement for overseeing budgetary exercises such as salary following, invoicing, client administration, and money related announcing. By leveraging present day web innovations like HTML, CSS, JavaScript, PHP, and MySQL, the application guarantees real-time information preparing, robotization, and security for monetary entrepreneurs. This venture bridges the hole between complex bookkeeping program and however basic monetary needs of autonomous experts. Through user-friendly plan, secure confirmation, and cloud capacity, the application engages business people to create data-driven choices and improve trade effectiveness. Future enhancements may incorporate AI-based monetary experiences, cost expectation, and integration with third- party installment portals to encourage upgrade convenience and usefulness. With persistent upgrades and enhancements, this application has the potential to ended up a fundamental apparatus for budgetary business visionaries around the world.

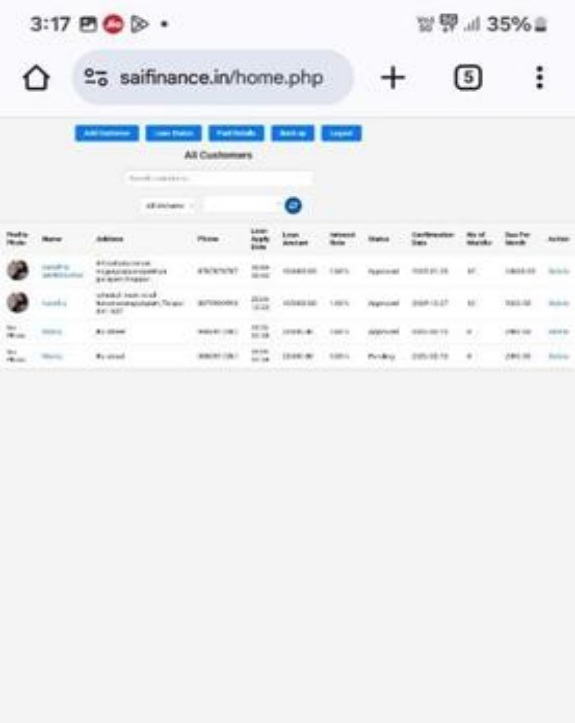
REFERENCES

[1] Meloni, J. C., *HTML, CSS, and JavaScript All-in-One*.
[2] Valade, J., *PHP & MySQL for Dummies*.
[3] Felke-Morris, T., *Web Development and Design Foundations with HTML5*.

OUTPUT AND SCREENSHOTS



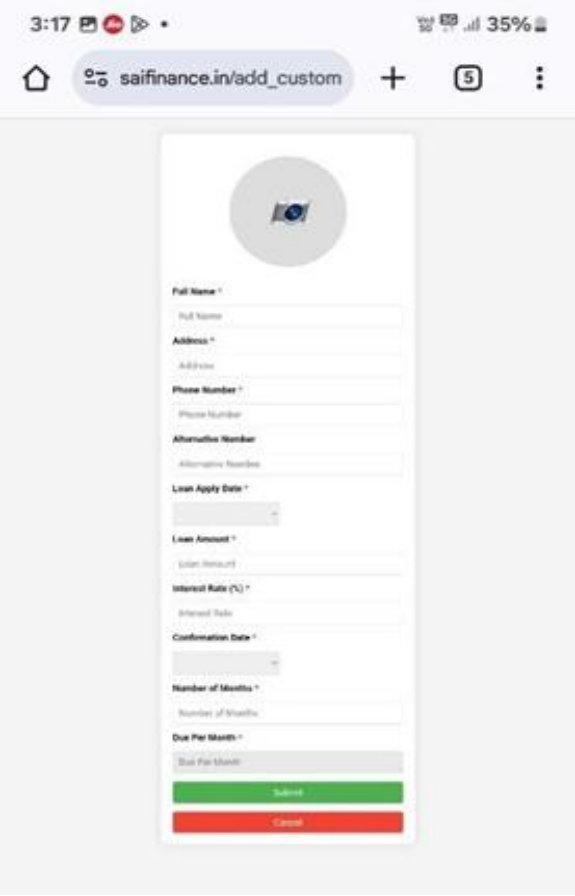
Log in Page



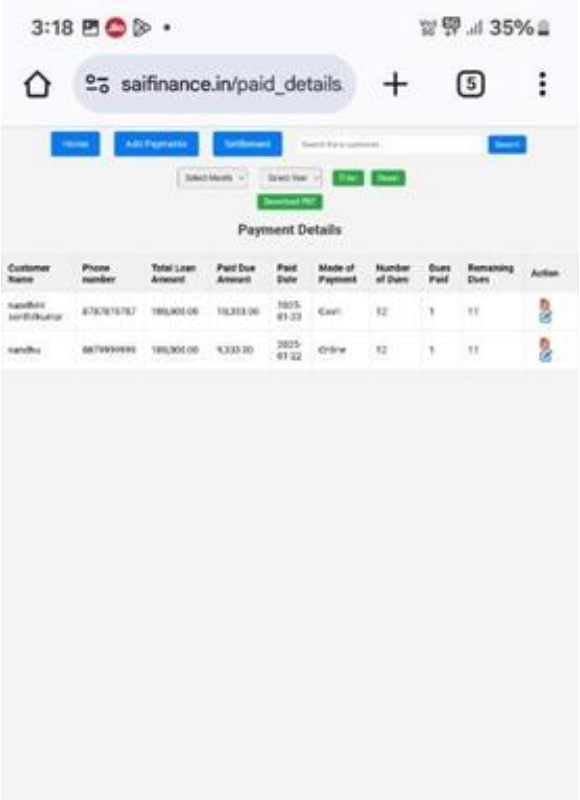
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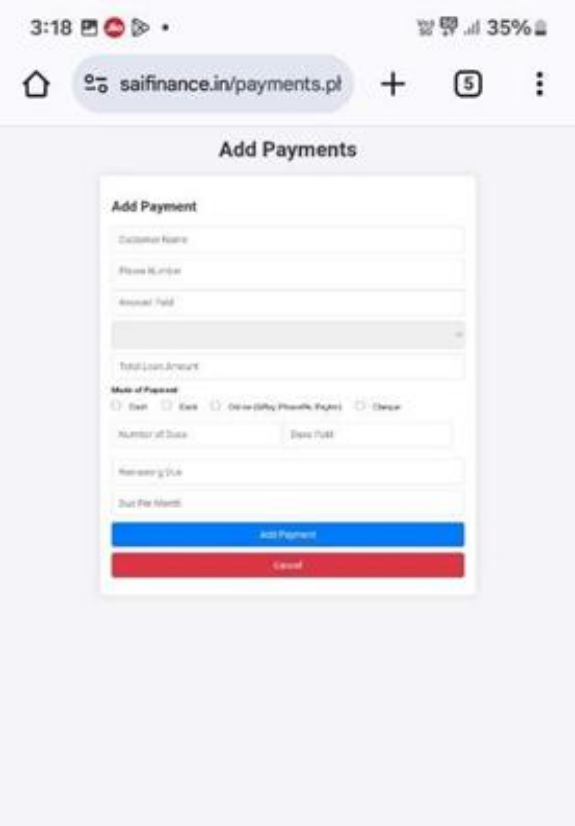
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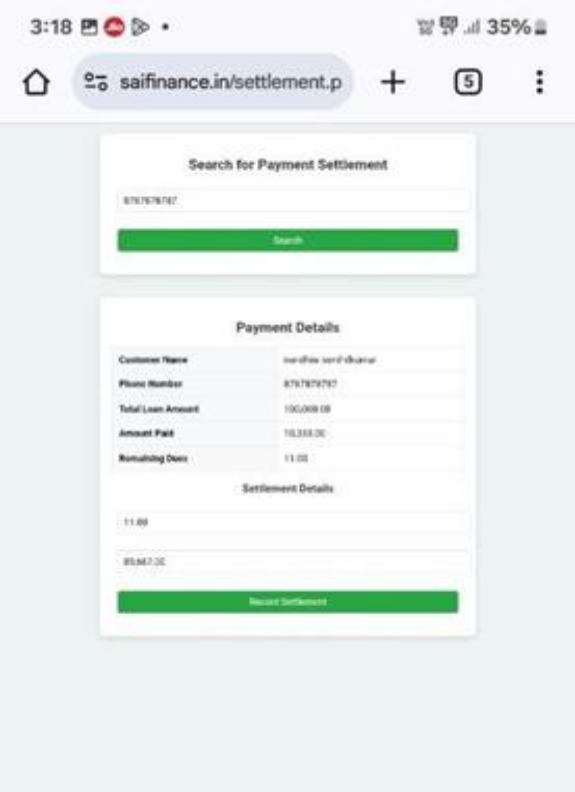
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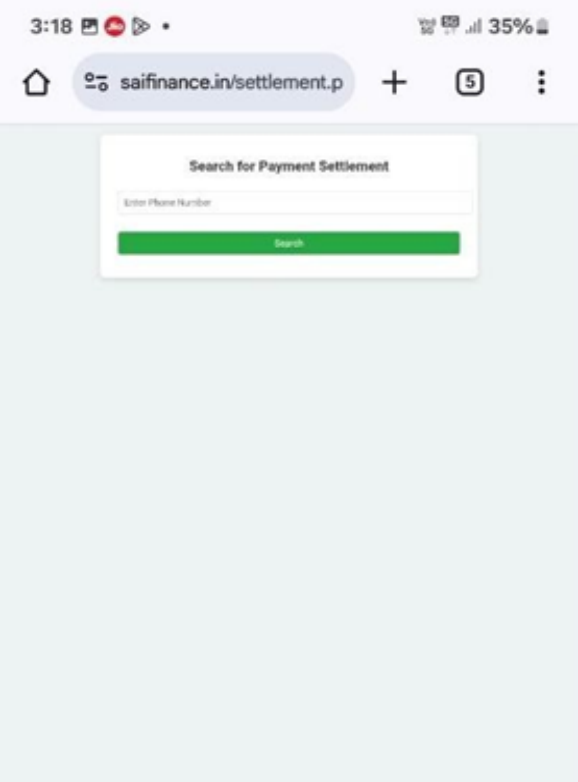
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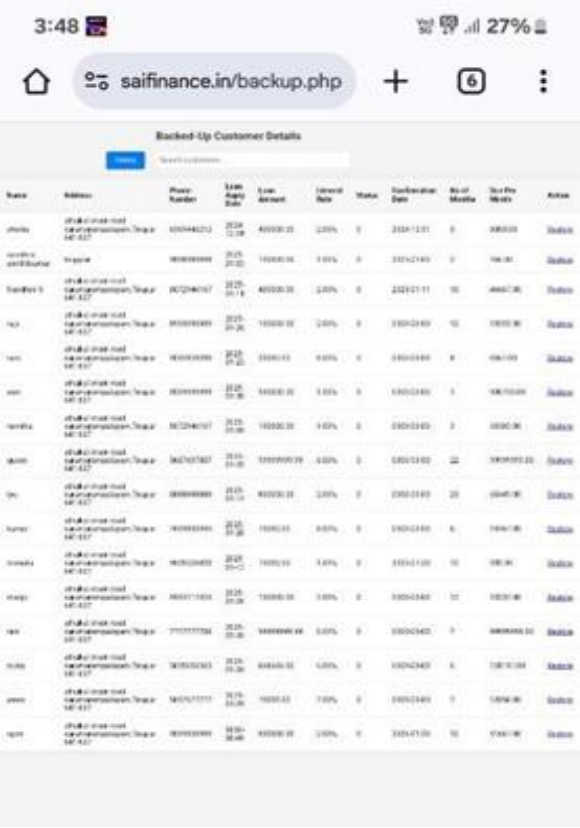
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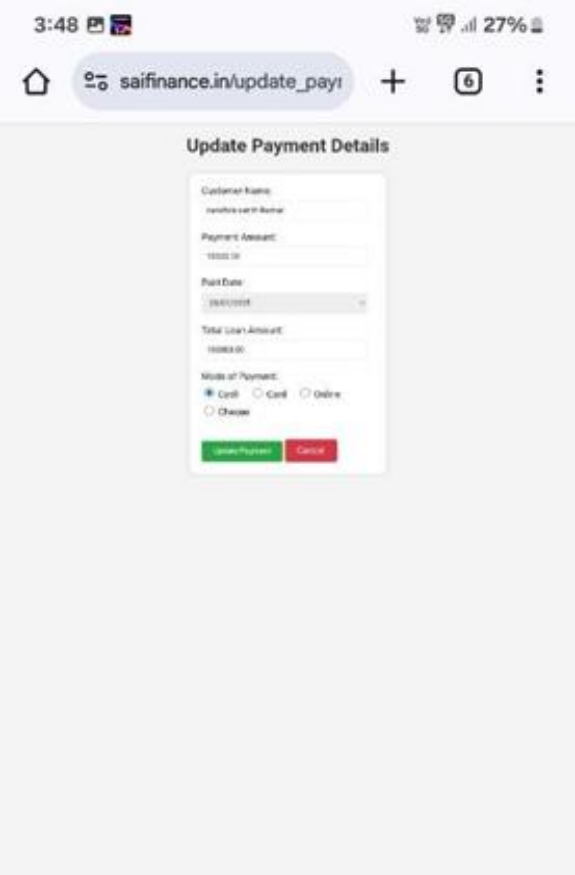
Fetch details using mobile number registered



Payment Settlement Page



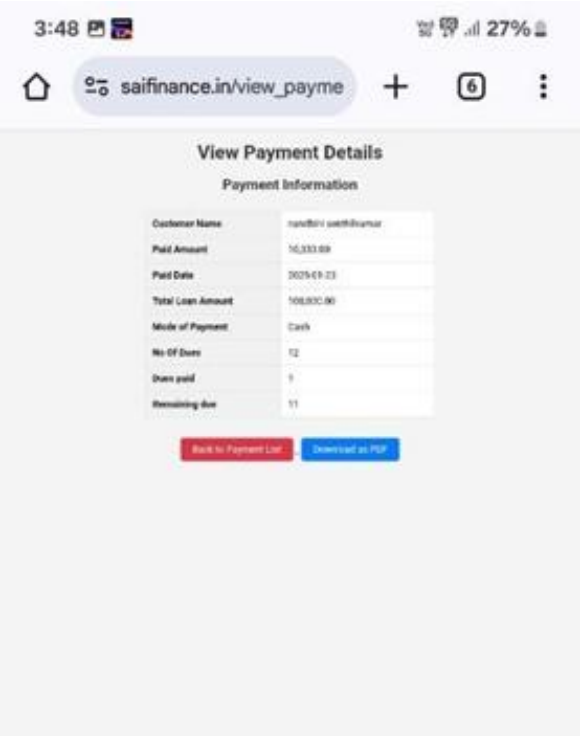
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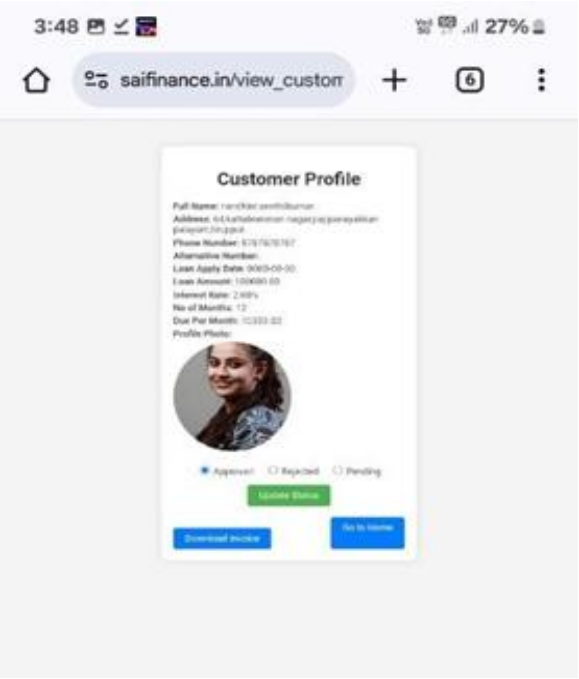
To update payment when mistake was made



Payment Receipt to the Customer reference



To view and download pdf of paid details



Profile of the registered Customers