

The background is a gradient of dark blue and purple, speckled with small white dots. On the left side, there are several concentric circles and a large circular scale with degree markings from 140 to 260. Some of the circles have arrows indicating a clockwise direction. The overall aesthetic is technical and futuristic.

INFINITY BANK PROJECT

A SECURE AND SCALABLE BANKING SYSTEM

PROJECT OVERVIEW

The primary goals of this project include:

1. Providing a simple and efficient interface for managing bank accounts.
2. Implementing a secure authentication system.
3. Storing user data and transactions efficiently using JSON files.
4. Enabling administrators to create, modify, and delete user accounts.
5. Allowing users to check their balance, update personal details, and review transaction history.

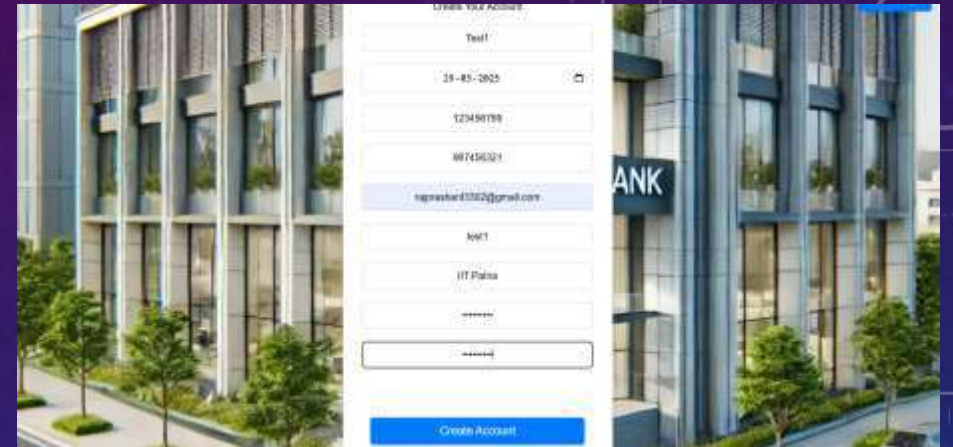
FEATURES

- Creating Account
- Login
- Money Transfer with OTP validation
- Loan EMI payment
- Pay Bill
- Mobile/DTH recharge
- Check Balance
- Show Transaction
- Withdraw Money
- Check Card Details
- Show Account Number

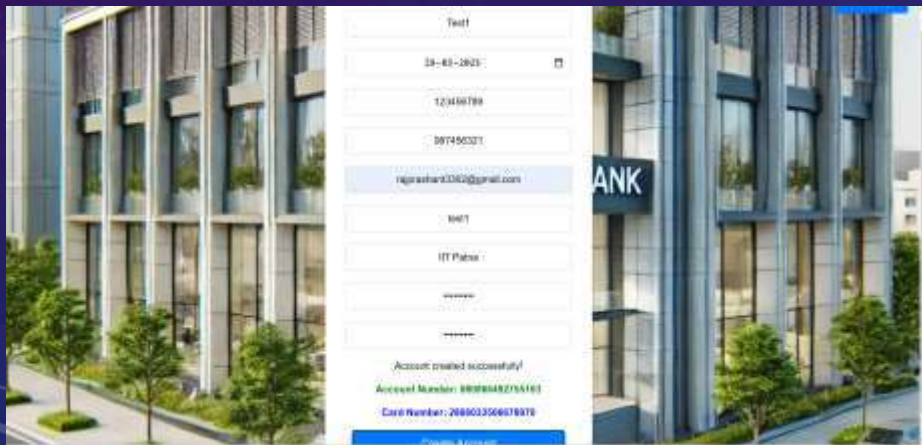
CREATING ACCOUNT



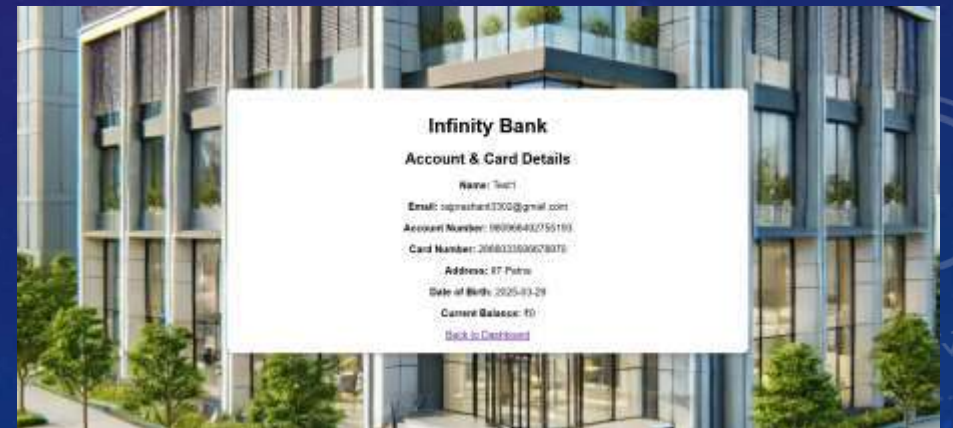
Click on Create Account



Fill all details and click on create (username is ensured to be unique)

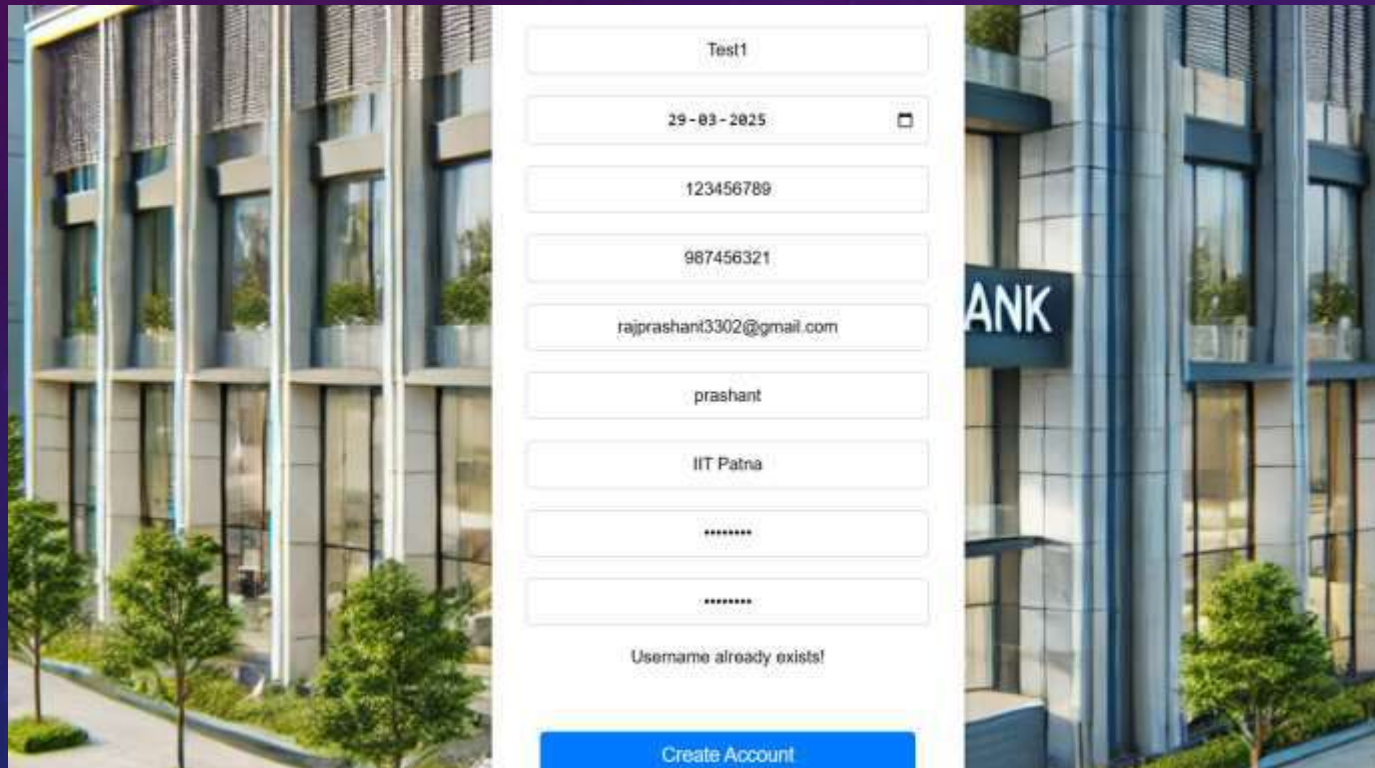


Account Number and Card Number is automatically generated and is Unique



After Successful creation of account, you will be directed to this page automatically after 10s.

WHAT IF USERNAME IS NOT UNIQUE?



Test1

29-03-2025

123456789

987456321

rajprashant3302@gmail.com

prashant

IIT Patna

Username already exists!

Create Account

It will show an error . It also ensures password is of length 8.

LOGIN PAGE



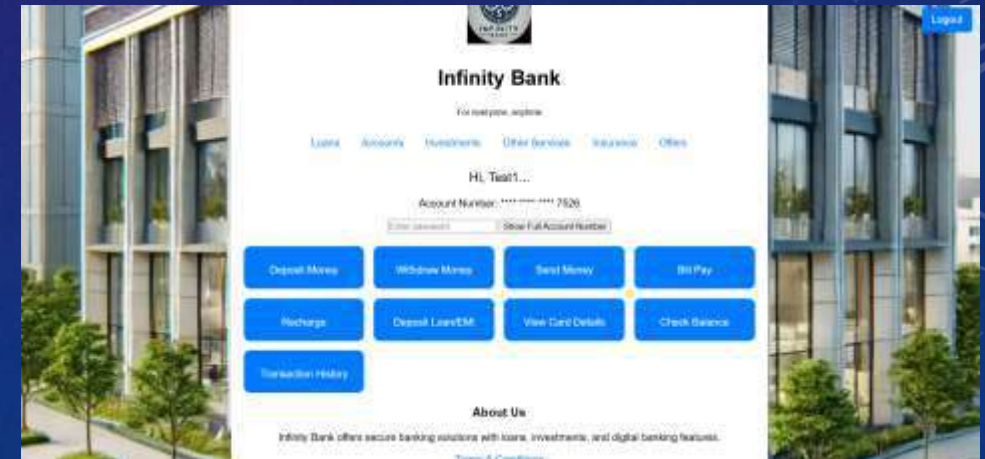
Enter you username and password . If username is not in database . It shows error and direct to account creation page automatically.



If it is correct ,then.....



It welcomes user by his name and

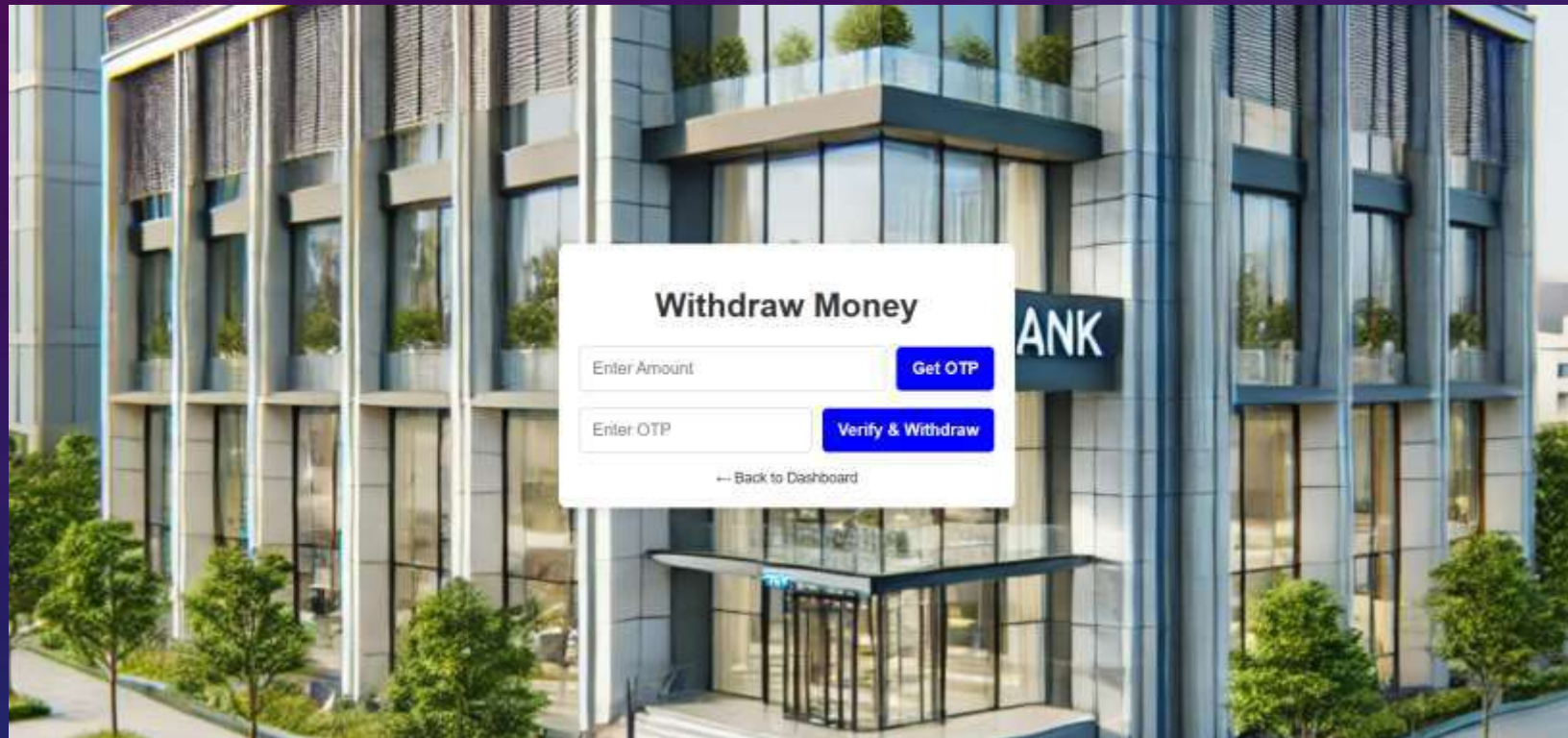


You will be directed to this page (Dashboard)

DEPOSIT MONEY



WITHDRAW MONEY



Function in Similar Manner as Deposit Money

SEND MONEY

Withdraw Money

Enter Amount [Get OTP](#)

Enter OTP [Verify & Withdraw](#)

[← Back to Dashboard](#)

**Infinity Bank
Send Money**

Transfer funds to any account quickly and securely.

Recipient's Account Number:

Order amount: ₹1000

[Verify](#)

IP Address: 123.45.67.89 | 10:15 PM

**Infinity Bank
Send Money**

Transfer funds to any account quickly and securely.

Recipient's Account Number:

[Verify](#)

Recipient: Prashant Raj

Amount (₹):

Enter amount:

[Send OTP](#)

IP Address: 123.45.67.89 | 10:15 PM

**Infinity Bank
Send Money**

Transfer funds to any account quickly and securely.

Recipient's Account Number:

[Verify](#)

Recipient: Prashant Raj

Amount (₹):

[Send OTP](#)

Enter OTP:

[Verify OTP & Transfer](#)

IP Address: 123.45.67.89 | 10:15 PM

**Infinity Bank
Send Money**

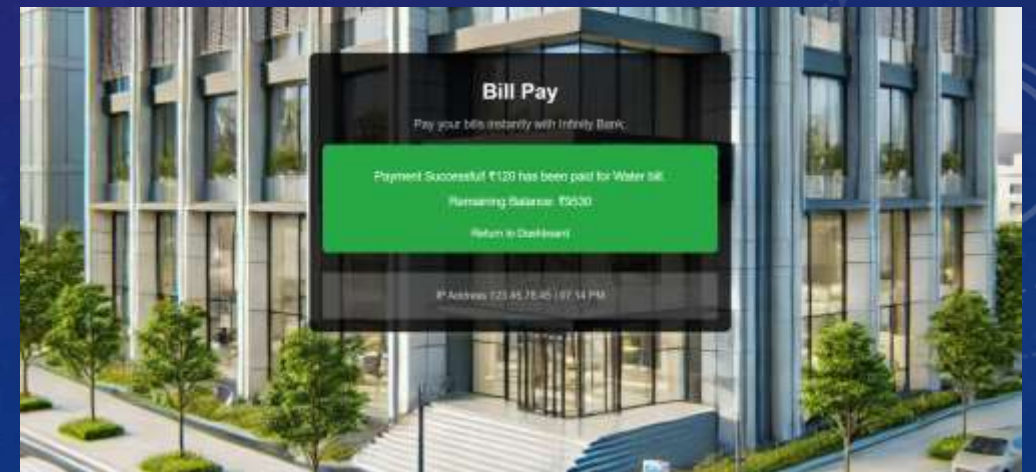
Transfer funds to any account quickly and securely.

Transaction Successful! ₹200 has been sent to Prashant Raj.

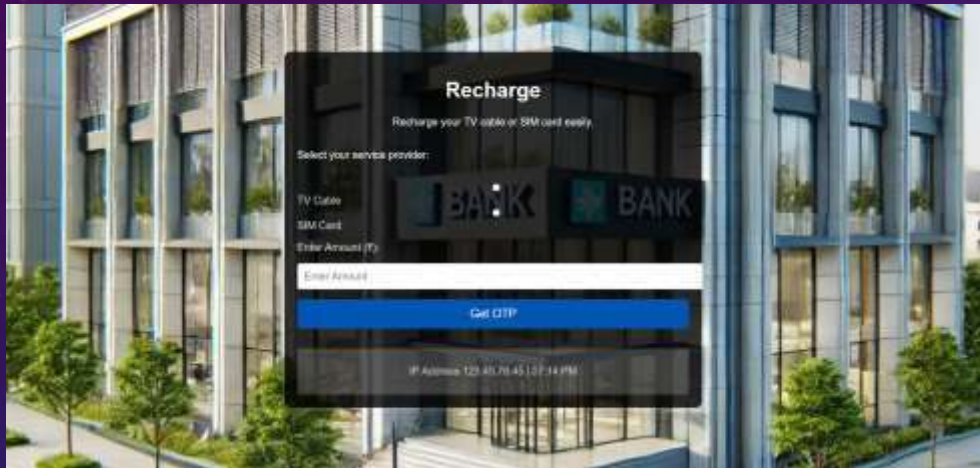
[Go back to Dashboard](#)

IP Address: 123.45.67.89 | 10:15 PM

PAY BILLS



MOBILE/DTH RECHARGE



PAY EMI

Deposit / Loan EMI

Manage your deposits and loan EMIs here.

Loan EMI Details

Loan Amount:

₹500,000.00

EMI Amount:

₹25,000.00

Next EMI Date:

2025-04-01

Remaining Balance:

₹300,000.00

Total Paid So Far:

₹200,000.00

Pay EMI

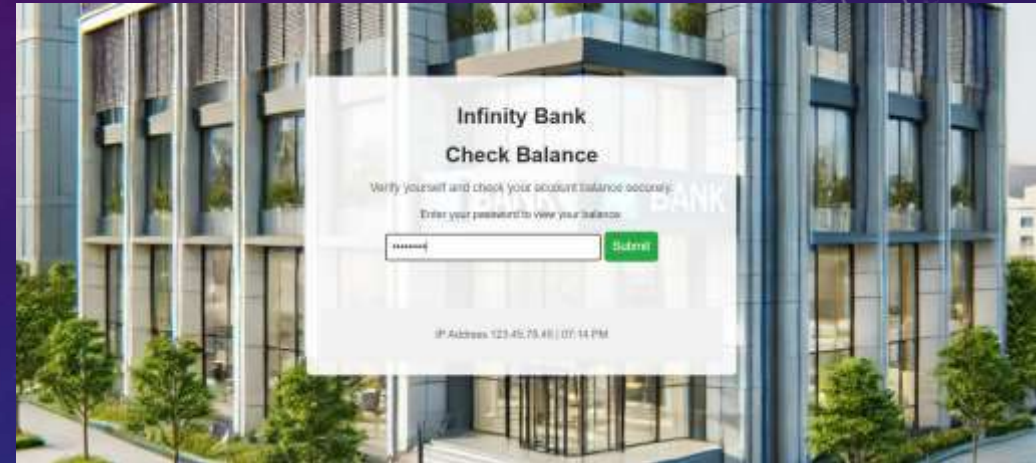
Enter EMI Amount:

Get OTP

VIEW CARD DETAILS



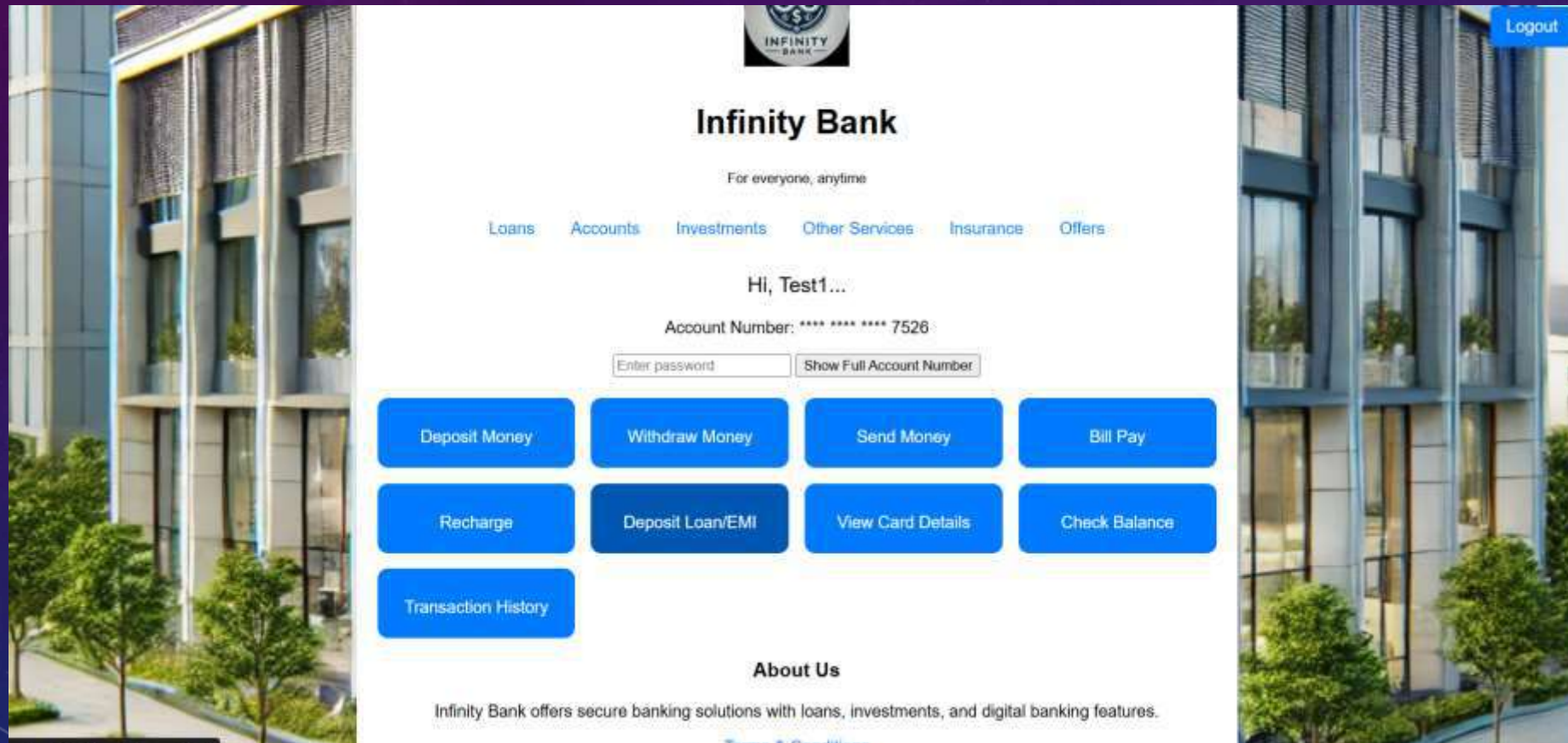
VIEW BALANCE



SHOW TRANSACTION HISTORY



DO YOU THINK THESE NAV BAR WORKS?



YES/NO

NAV-LOANS

Explore a variety of loan options tailored to your needs.

Home Loan

Low-interest rates starting at 6.75% p.a. Flexible repayment up to 30 years.

[Apply Now](#)

Personal Loan

Get up to ₹25 lakhs with minimal documentation. Instant approvals available.

[Apply Now](#)

Car Loan

Own your dream car with our easy financing options. 100% funding available.

[Apply Now](#)

Education Loan

Fund your education with loans covering tuition and living expenses.

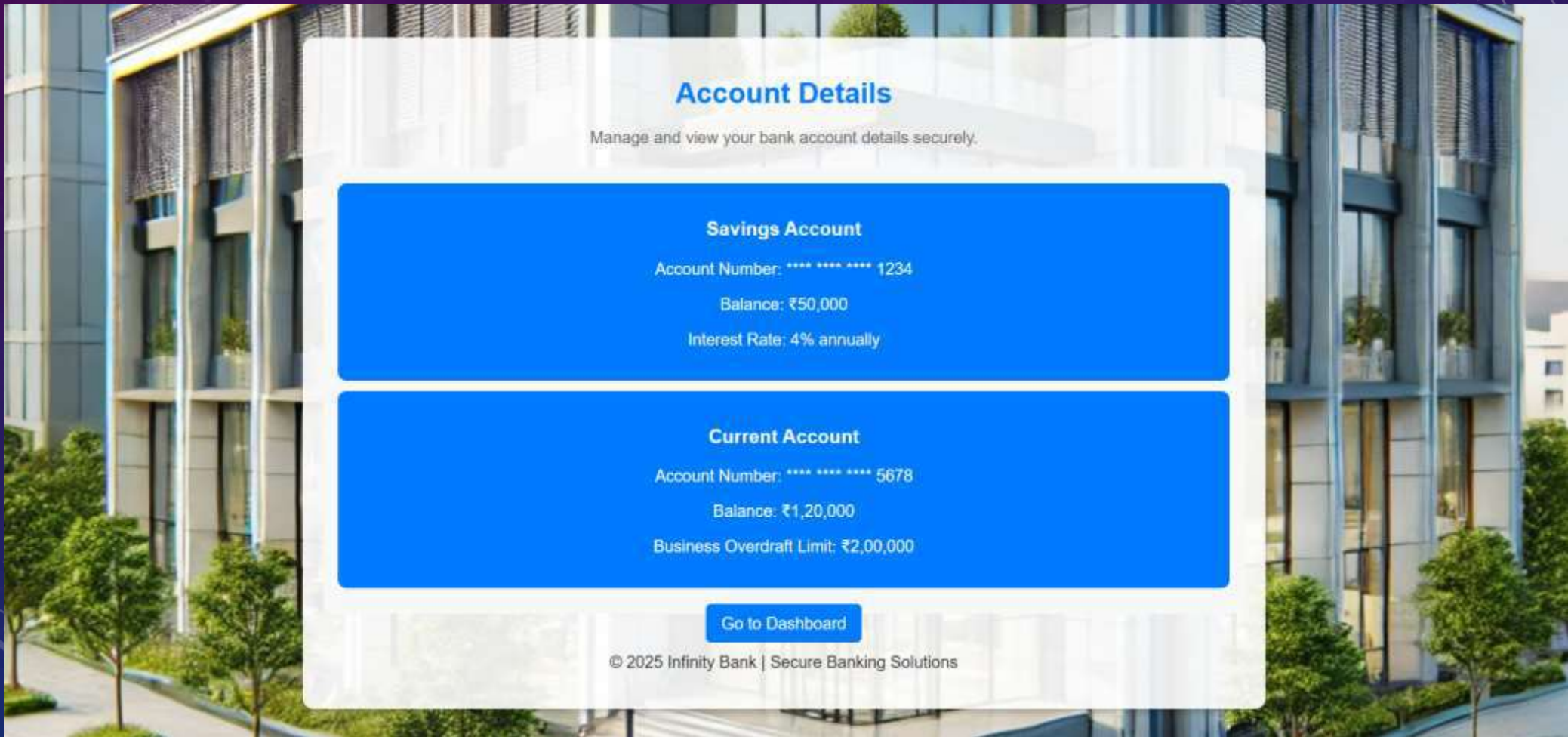
[Apply Now](#)

Loan EMI Calculator

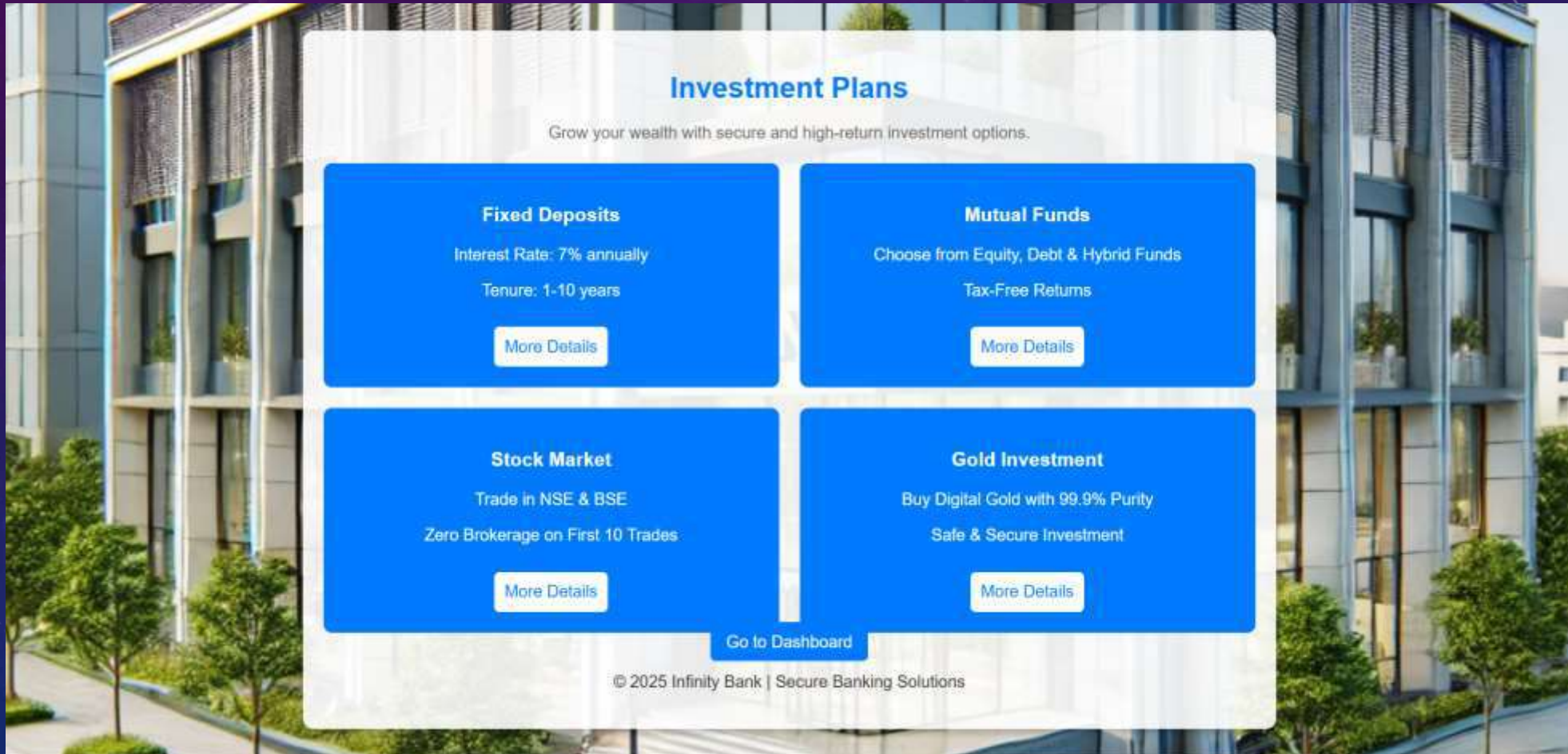
Loan Amount (₹):

Interest Rate (%):

NAV-ACCOUNT



NAV-INVESTMENT



NAV-OTHER SERVICES

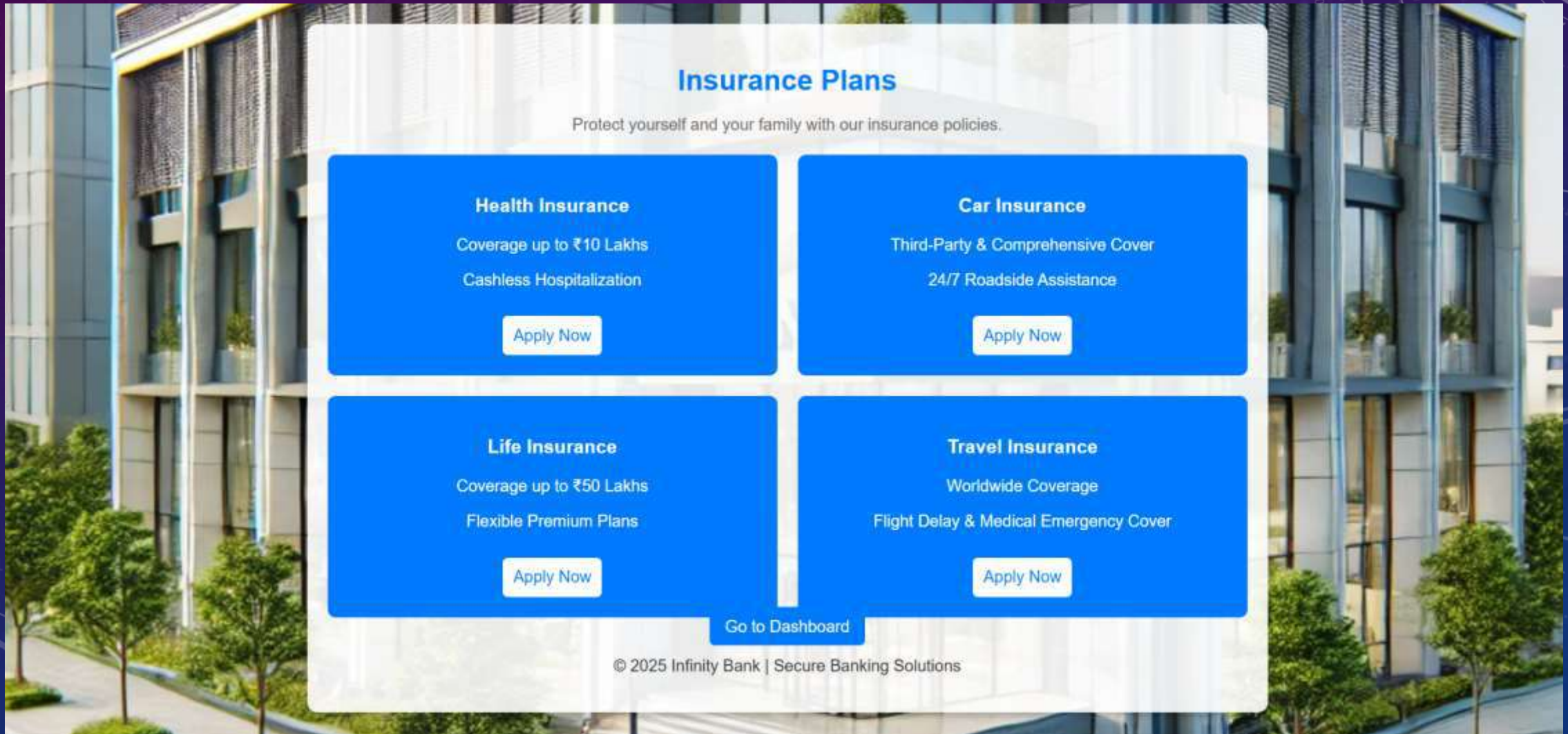


Enjoy a range of premium banking services for your convenience.

- Personal Loan**
Loan Amount: Up to ₹20 Lakhs
Instant Approval & Low Interest
- Credit Cards**
Up to ₹5 Lakhs Credit Limit
Cashback & Rewards on Every Spend
- Forex Services**
Buy & Sell Foreign Currency
Zero Forex Markup on International Cards
- Locker Facility**
Secure Storage for Valuables
Available in Multiple Branches

[Go to Dashboard](#)

NAV-INSURANCE PLANS



The image shows a digital interface for 'NAV-Insurance Plans' overlaid on a background of a modern, multi-story building with glass facades and balconies. The interface is a white rectangular box with rounded corners. At the top, it has a title 'Insurance Plans' in blue, followed by a subtitle 'Protect yourself and your family with our insurance policies.' Below this, there are four blue rectangular cards arranged in a 2x2 grid. Each card contains the name of an insurance plan, its key features, and an 'Apply Now' button. At the bottom of the grid is a 'Go to Dashboard' button. The footer of the interface states '© 2025 Infinity Bank | Secure Banking Solutions'.

Insurance Plans

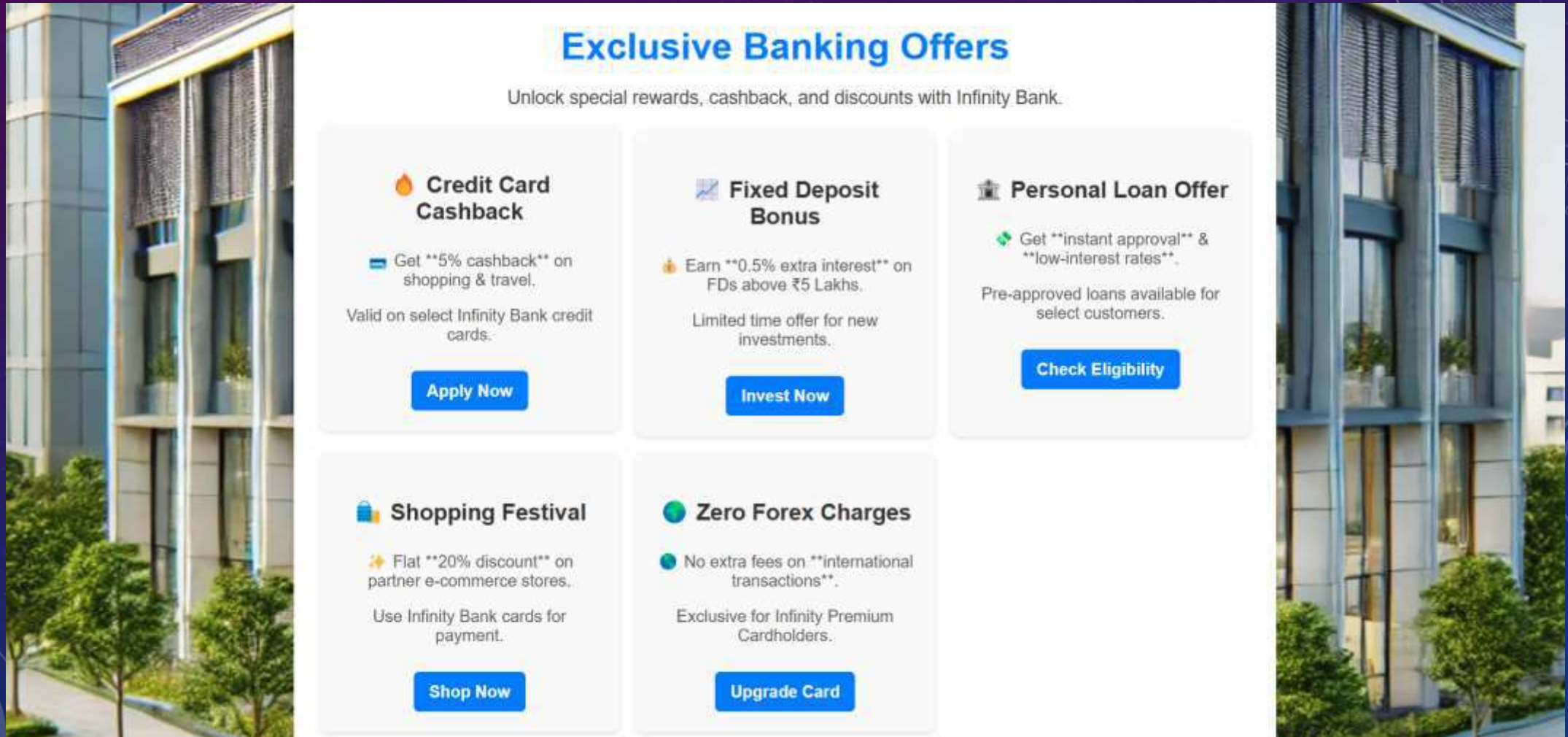
Protect yourself and your family with our insurance policies.

Insurance Plan	Coverage Details	Action
Health Insurance	Coverage up to ₹10 Lakhs Cashless Hospitalization	Apply Now
Car Insurance	Third-Party & Comprehensive Cover 24/7 Roadside Assistance	Apply Now
Life Insurance	Coverage up to ₹50 Lakhs Flexible Premium Plans	Apply Now
Travel Insurance	Worldwide Coverage Flight Delay & Medical Emergency Cover	Apply Now

[Go to Dashboard](#)


© 2025 Infinity Bank | Secure Banking Solutions

NAV-OFFERS



Exclusive Banking Offers

Unlock special rewards, cashback, and discounts with Infinity Bank.




Credit Card Cashback

Get ****5% cashback**** on shopping & travel.

Valid on select Infinity Bank credit cards.

[Apply Now](#)




Fixed Deposit Bonus

Earn ****0.5% extra interest**** on FDs above ₹5 Lakhs.

Limited time offer for new investments.

[Invest Now](#)




Personal Loan Offer

Get ****instant approval**** & ****low-interest rates****.

Pre-approved loans available for select customers.

[Check Eligibility](#)




Shopping Festival

Flat ****20% discount**** on partner e-commerce stores.

Use Infinity Bank cards for payment.

[Shop Now](#)



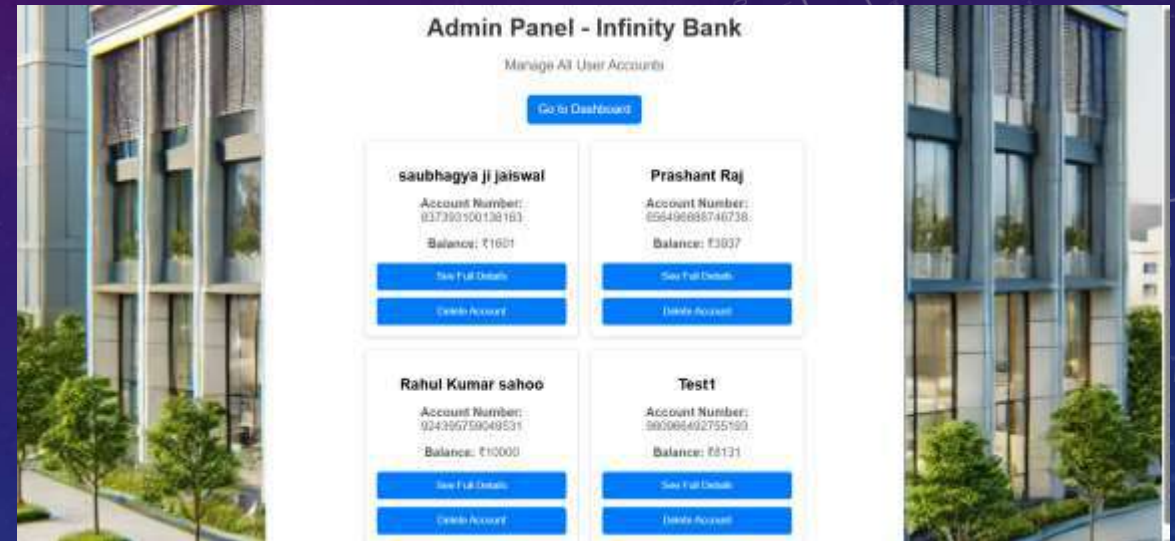
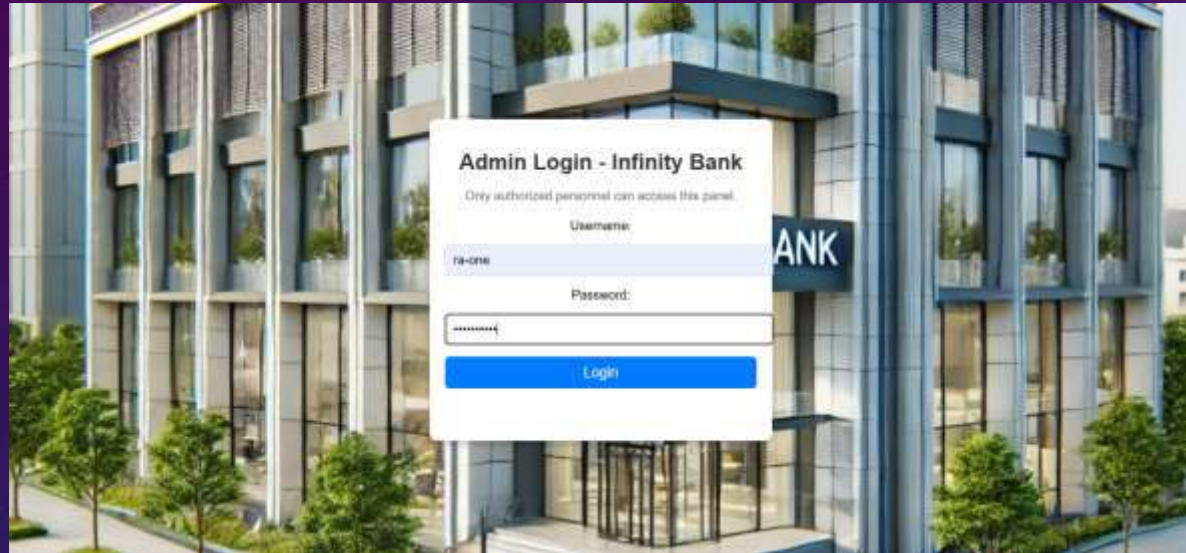
Zero Forex Charges

No extra fees on ****international transactions****.

Exclusive for Infinity Premium Cardholders.

[Upgrade Card](#)

ADMIN PANEL



WHAT ADMIN CAN DO?

1. **User Management:** Create, update, and delete accounts.
2. **Transaction Monitoring:** View and manage user transactions.
3. **Data Storage:** Stores user details securely in JSON format.

TECHNOLOGY

- Frontend-HTML , CSS , Javascript
- Backend – Node.js , Express.js
- Database-JSON
- OTP authentication – Nodemailer(sends mail on registered email)
- Hosting(frontend)-github
- Hosting(backend)-render.com

DSA(DATA STRUCTURES)

- Obviously array
- Hash map(data storing in json file)
- Queue(otp storage and expiration system)
- Stack(updation of transaction history)

ISSUES

- Some fields in the user details page were displaying "undefined" in admin panel.
- After deploying this page on github and render.com , any changes made to files during runtime (like deleting a user from JSON) **do not persist** after the server restarts.

FUTURE CHANGES

- **Database Integration:** Move from JSON file storage to MongoDB or MySQL for better scalability.
- **Transaction System:** Implement real-time fund transfer features between users.
- **Security Enhancements:** Add encryption for sensitive user data.
- **User Dashboard:** Improve UI/UX with enhanced dashboards and better visualization.

DEVELOPER



Prashant Raj

Some of Pages is designed by Saubhagya Ji Jaiswal and Abhishek kumar

Thank You