MODERN DIGITAL BANKING DASHBOARD

Presented by : Team 2
Under the guidance of : Priya mam

WHY WE BUILT THE DASHBOARD

1 Provide users with a **unified view** of their accounts and transactions.

2 Enable **real-time insights** and transaction monitoring.

3 Ensure **secure and efficient management** of banking data.

4 Improve **user experience** through a clean, responsive, and interactive interface.

5 Support **integration** with APIs, webhooks, and banking services for modern operations.

MODERN TECH STACK OVERVIEW

Frontend: React.js + Tailwind CSS → Interactive & responsive UI

Backend: FastAPI → High-performance, scalable APIs
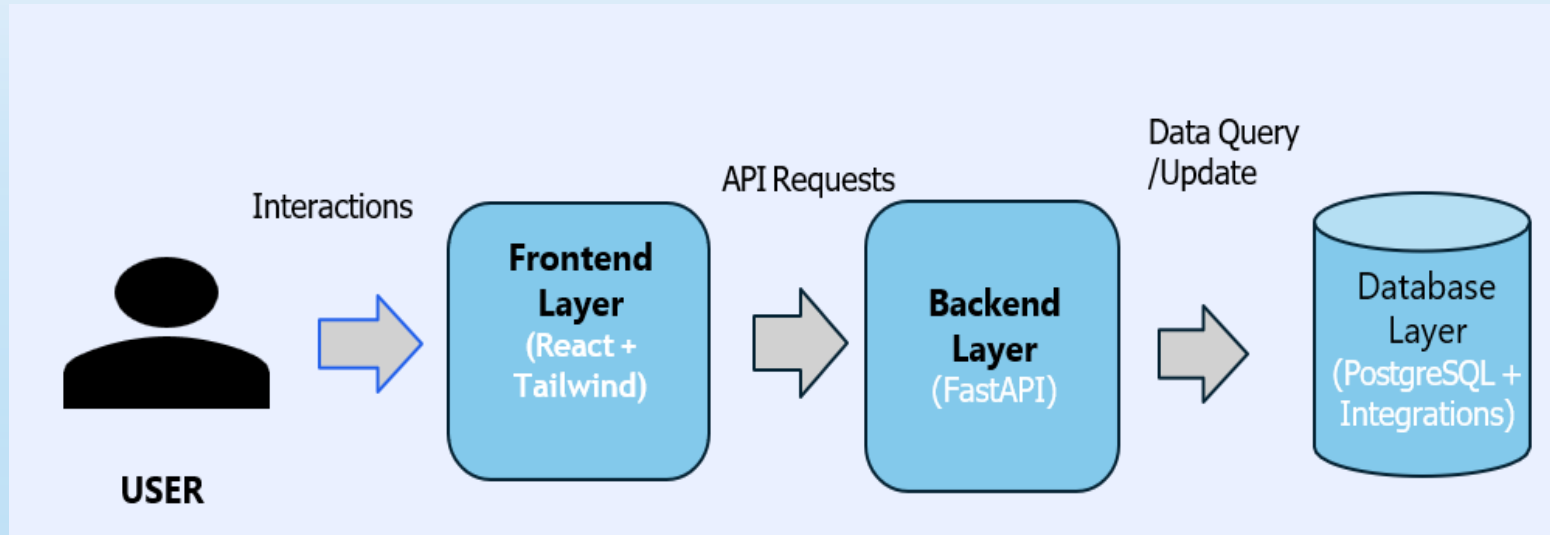
Database: PostgreSQL → Reliable relational database

Authenticaton: JWT (access +refresh tokens) →Secure user sessions
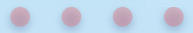
SCALABLE & MODULAR SYSTEM ARCHITECTURE

Interactions

API Requests

Data Query /Update

USER

Frontend Layer (React + Tailwind)

Backend Layer (FastAPI)

Database Layer (PostgreSQL + Integrations)

A DESIGN FOR A MAINTAINABLE CODEBASE – MODULAR ARCHITECTURE

Modern Digital Banking Frontend

- ➢ User opens app **(index.html)**
- ➢ React initialized **(main.jsx)**
- ➢ Routing to pages **(App.jsx)**
- ➢ UI built using **components/**
- ➢ API call from **services / utils**
- ➢ Data stored using **state (hooks)**
- ➢ Dashboard updated
- ➢ **(pages/Dashboard.jsx)**

Modern Digital Banking Backend

- ➢ Request received **(main.py)**
- ➢ Routed to API **(routers)**
- ➢ Auth check **(auth.py)**
- ➢ Data validation **(schemas.py)**
- ➢ DB operation **(models +database.py)**
- ➢ Response returned
- ➢ JSON response sent

Modern Bank Management System

Manage accounts, transactions, budgets, and insights securely.

Login   Get Started

Secure authentication that enables registered users to access their personalized digital banking dashboard. Secure login with OTP

Quick and validated user registration that provisions a new profile for seamless access to banking services.Validated user registration. Strong password policy. And Email & phone validation.

Secure Bank Login

Email
priya18@gmail.com

Password
••••••••

Captcha
fmeha

fmeha

Login with OTP

Don't have an account? Register

Secure Digital Banking Portal

Create Account

Full Name
priya

Email Address
priya18@gmail.com

Phone Number
0987654321

Password
#Priya123

Confirm Password
••••••••

View Terms of Service and Privacy Policy

☑ I agree to the Terms of Service and Privacy Policy

Create Account
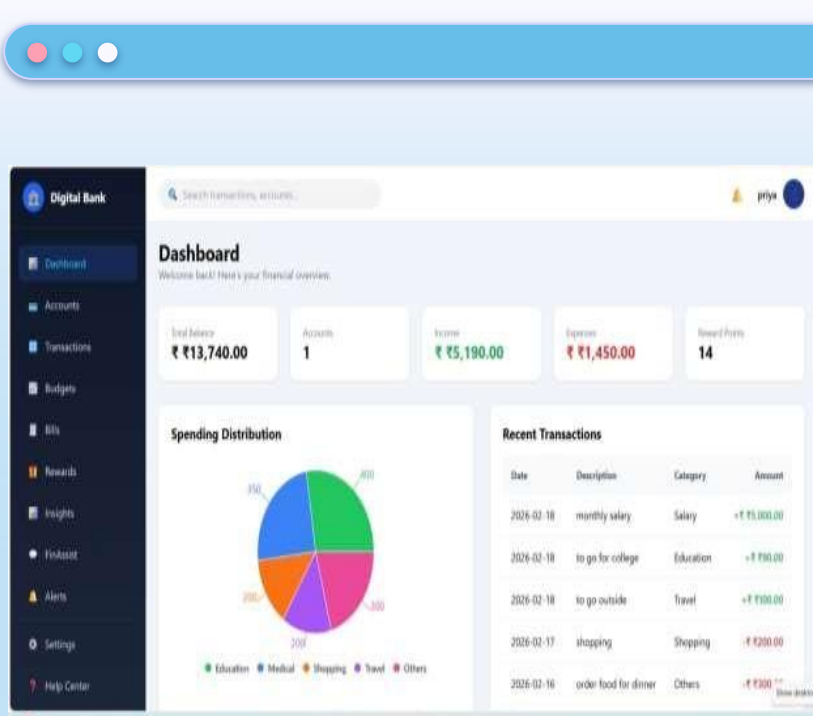
Already registered? Login

ACCOUNTS

Centralized view of all linked bank accounts with balance tracking and account details. Add/Remove bank accounts. Monitor balances. Multi account support and Secure API integration
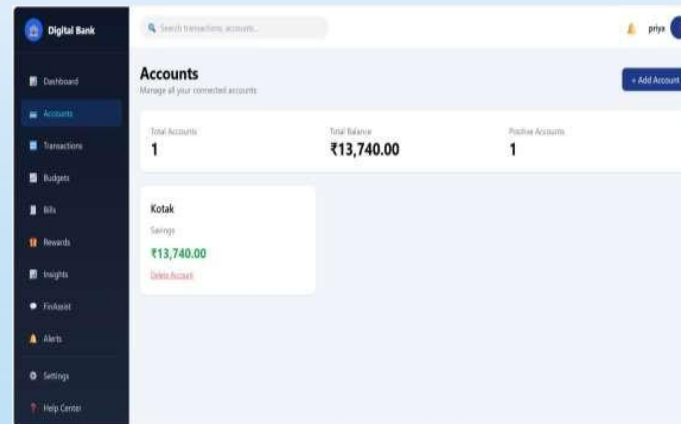
DASHBOARD
A unified overview of financial data with real-time insights, quick actions, and personalized summaries.
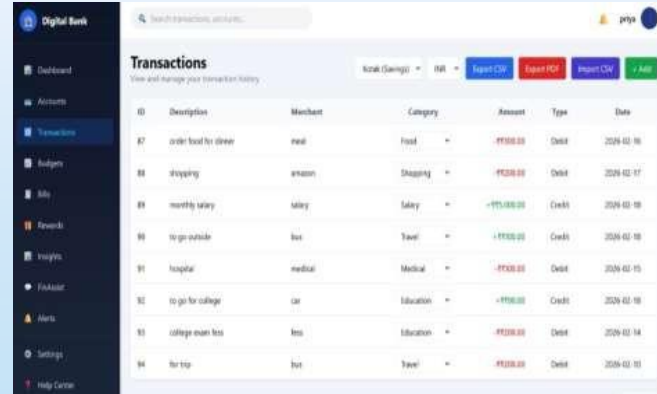
CORE FEATURES: WORKFLOW AND MANAGEMENT

- Set category-wise budgets and track spending in real time.

- Gain visual insights for smarter financial planning

- Manage recurring bills with clear due-date tracking

- Receive automated reminders to avoid missed payments(Auto-pay option for bills).
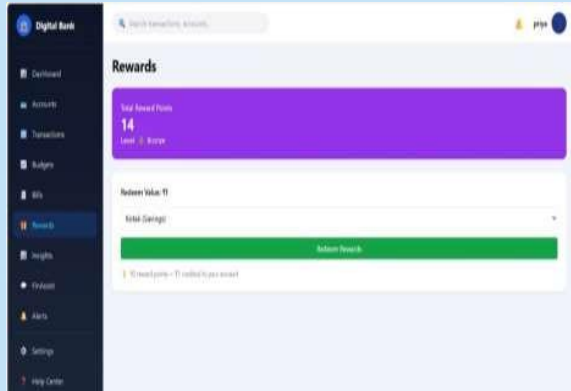
Transactions Management:

- Add / Edit / Delete transactions
- Credit & Debit classification
- Category assignment
- CSV Import
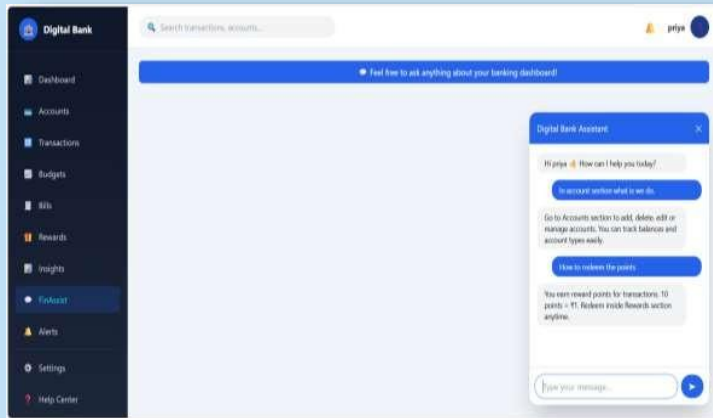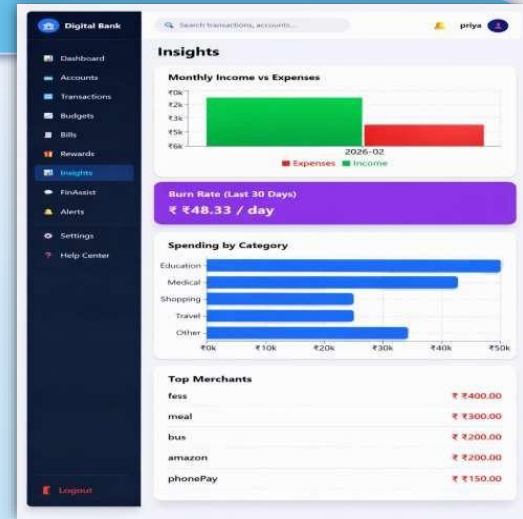- Export to PDF & CSV
- Real-time updates

Rewards & Points System :

- Earn points on transactions
- 10 points = ₹1 redeemable
- Redeem to selected account
- Reward level classification (Bronze → Platinum)

Financial Insights :
- Monthly Income vs Expenses chart
- Burn Rate analysis
- Top merchants analysis
- Spending by category
- Data-driven financial planning

- Personalized greeting (Hi *User Name*)
- 200 rule-based query support
- Covers Accounts, Transactions, Budgets, Bills & Security
- Instant response without external AI
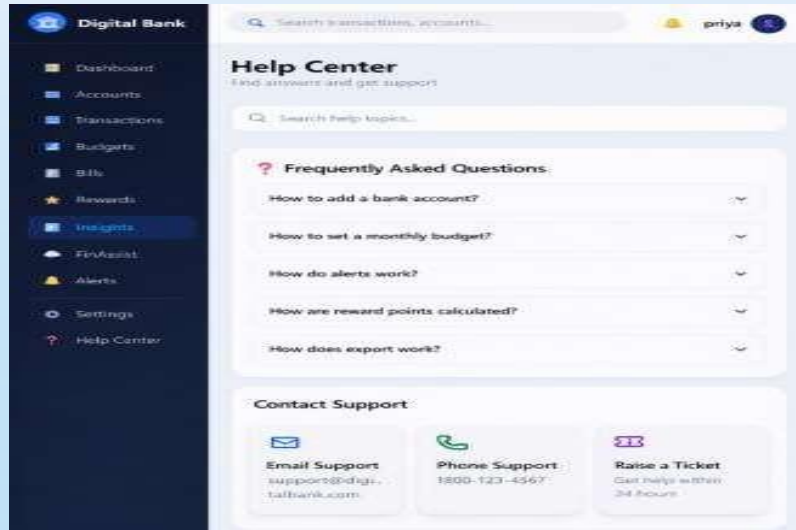- Improves user interaction experience

Alerts & Notifications System

- Real-time banking notifications
- Budget exceeded & large transaction alerts
- Bill due / overdue reminders
- Reward updates
- Auto-refresh every 30 seconds
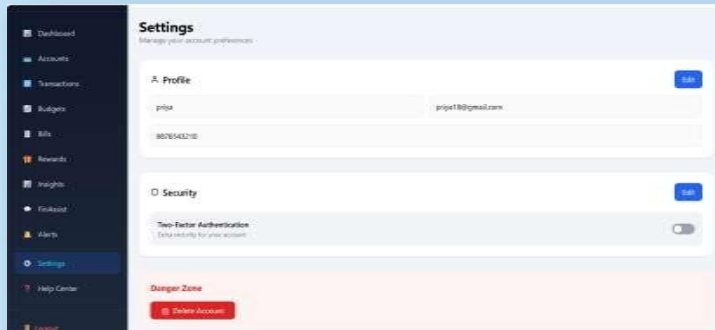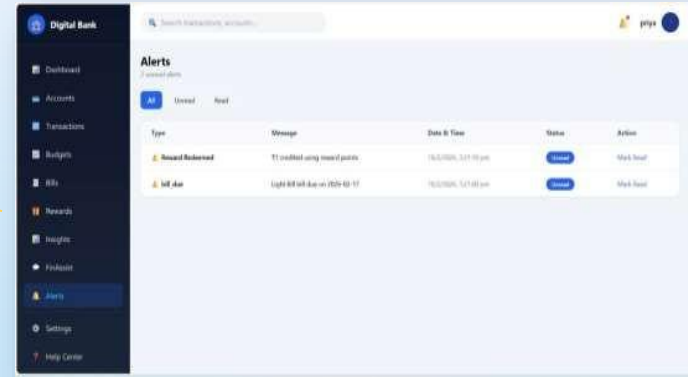
Settings & Security

- Profile update (Name & Phone)
- Strong validation & password policy
- Two-Factor Authentication (2FA)
- Secure account deletion

Help center

- Centralized support section for users
- Search help topics instantly
- Frequently Asked Questions (FAQs)
- Covers accounts, budgets, alerts, rewards & exports
- Contact support via Email, Phone, or Ticket
- Quick response within 24 hours

TEAM CONTRIBUTIONS

➤ **FRONTEND:**

Renisha, Durga, Sowmya Sree, Marency – UI development, component design, API integration

➤ **BACKEND:**
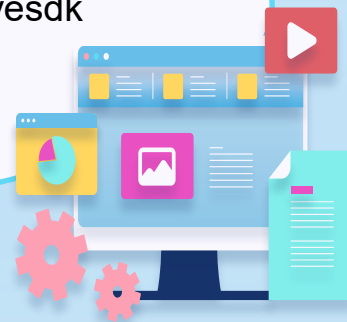
Tanuja More – Backend development & API integration

Byreddy Saireddy – Backend logic & database

PRESENTATION LINK

https://drive.google.com/file/d/19-Pgqnos36PVr9yC2w9QIhgEJuBydCmB/view?usp=drivesdk

THANK YOU