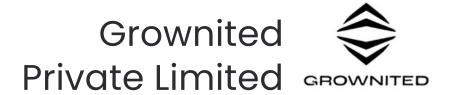
ExpenseMate

AN EXPENSE TRACKER



Overview

- Internship/Project Summary
- Expected Outcome
- Tools and Technologies
- Project Implementation
 - MongoDB Database Schemas
 - Backend APIs(FastAPI)
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Internship/Project Summary

Internship Project name is "ExpenseMate - An Expense Tracker" is a user-friendly digital solution designed to help individuals manage their personal finances efficiently. By allowing users to record, categorize, and analyze their Expenses and Income, the platform facilitates financial discipline and aids in achieving monetary goals. With a focus on simplicity and effectiveness, the Expense Tracker serves as a versatile tool for optimizing budgeting practices.

Expected Outcome

- Increased financial awareness and improved money management skills among users.
- A seamless and structured budgeting process powered by digital tools.
- Reduced impulsive spending and better financial planning.

Tools & Technologies

• Frontend: React.js/vite, Javascript, TailwindCSS

• Backend: Python, FastAPI

• Database: MongoDB

• Tools: VsCode, PostMan, MongoDBCompass, PyCharm

Key Features

Expense & Income Tracking

- Users can log daily transactions by entering their income and expenses.
- Provides an intuitive interface to quickly add, edit, or delete financial records.

Categorization & Organization

- Transactions can be categorized into predefined groups such as Food, Transport, Entertainment, Bills, and Savings.
- Users can also create custom categories to match their financial habits.
- Offers color-coded visual representation for easy tracking.

Key Features

Financial Analysis & Insights

- Provides detailed analytics to help users understand their spending habits.
- Displays monthly, weekly, and yearly financial summaries in charts and graphs.

Simplicity & Effectiveness

- Designed with a clean and minimalistic UI for ease of use.
- Ensures quick access to financial data with minimal effort.
- Provides a seamless experience across different devices, including web and mobile platforms.

Security & Data Protection

- OTP-Based Authentication: Ensures secure login with a one-time password verification system.
- Data Encryption: Sensitive financial data is encrypted to protect user privacy.

Database Schemas (MongoDB)

User Collection

- Stores User Credentials with timestamps
- Fields Consist of id,name,email,password,isAdmin,status,updated_at,created_at

Transactions Collection

- Stores Transaction Data, Tracks User's Expenses and Incomes with timestamps
- Fields Consist of id,user_id,amount,category_id,description,type,date,status

Category Collection

- Stores Transaction's Categories with timestamps
- Fields Consist of id,user_id,name,status

Budget Collection

- Stores Transaction's Categories with timestamps
- Fields Consist of id,user_id,name,status

Backend APIs (FASTAPI)

User EndPoint

- All the user related apis endpoints start with
- /api/users
- for Authentication:
- /api/login
- /api/signup

Transactions EndPoint

- All the transactions related apis endpoints start with
- /api/transactions

Category EndPoint

- All the category related apis endpoints start with
- /api/category

Backend APIs (FASTAPI)

Analytics EndPoint

- All the analytics related apis endpoints start with
- /api/analytics

Budget EndPoint

- All the budget related apis endpoints start with
- /api/transactions

Backend Packages

- 💫 FastAPI High-performance Python web framework for building APIs.
- **Uvicorn** ASGI server for running FastAPI apps efficiently.
- **bcrypt** Secure password hashing for authentication.
- V Pydantic Data validation and settings management.
- Ø Motor Async MongoDB driver for handling database operations.
- 📅 Datetime Built-in Python module for managing dates and times.
- * Typing Provides type hints for better code readability and safety.

Frontend

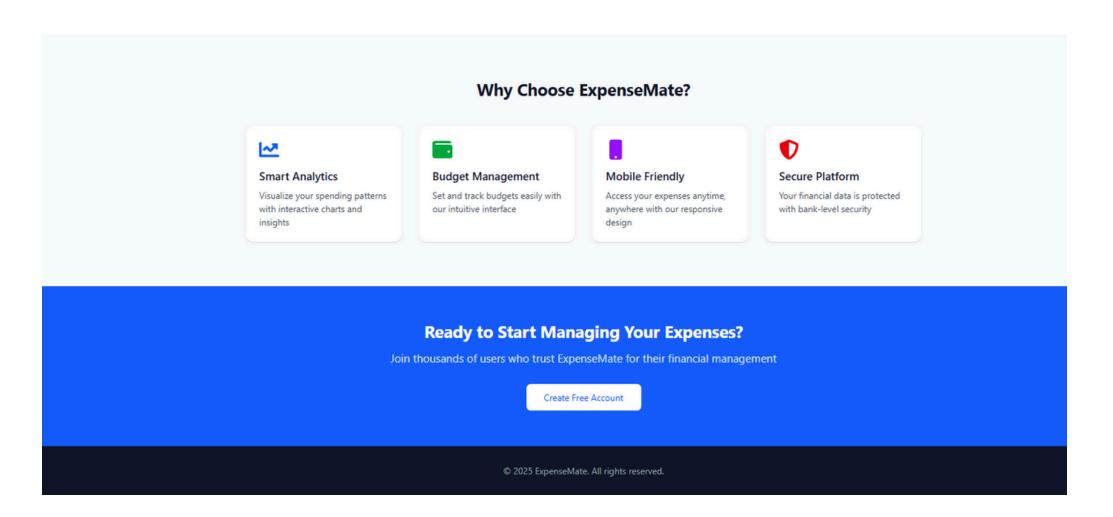
- **Vite** Super-fast frontend build tool for a smooth dev experience.
- 🕸 React.js Component-based UI framework for efficient development.
- * Tailwind CSS Utility-first CSS for fast and responsive styling.
- React Router DOM Enables seamless client-side navigation.
- **React Hook Form –** Efficient form management with built-in validation.
- **Example 1** Framer Motion Adds smooth animations and UI transitions.
- 📅 Date-fns Lightweight library for date handling and formatting.
- React Icons Collection of customizable icons for React apps.
- Recharts Easy-to-use charting library for data visualization.

Frontend UI (User)

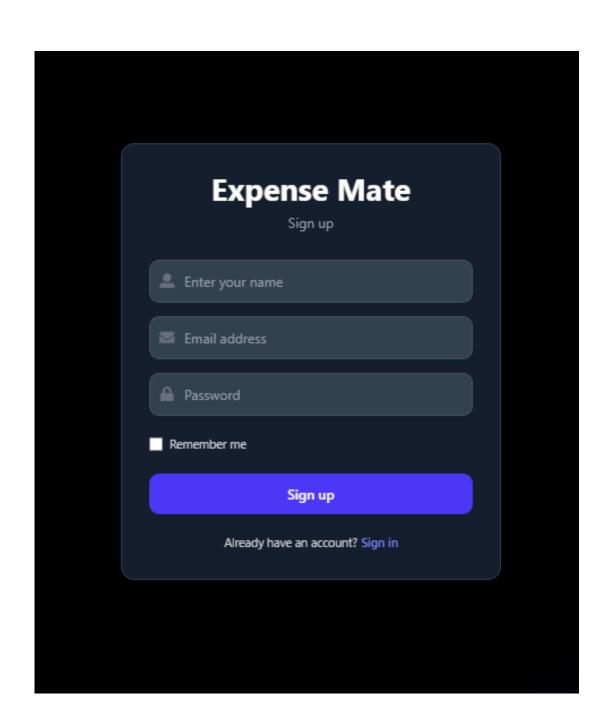
Take Control of Your Finances

ExpenseMate helps you track expenses, manage budgets, and achieve your financial goals with ease.

Get Started - It's Free Login

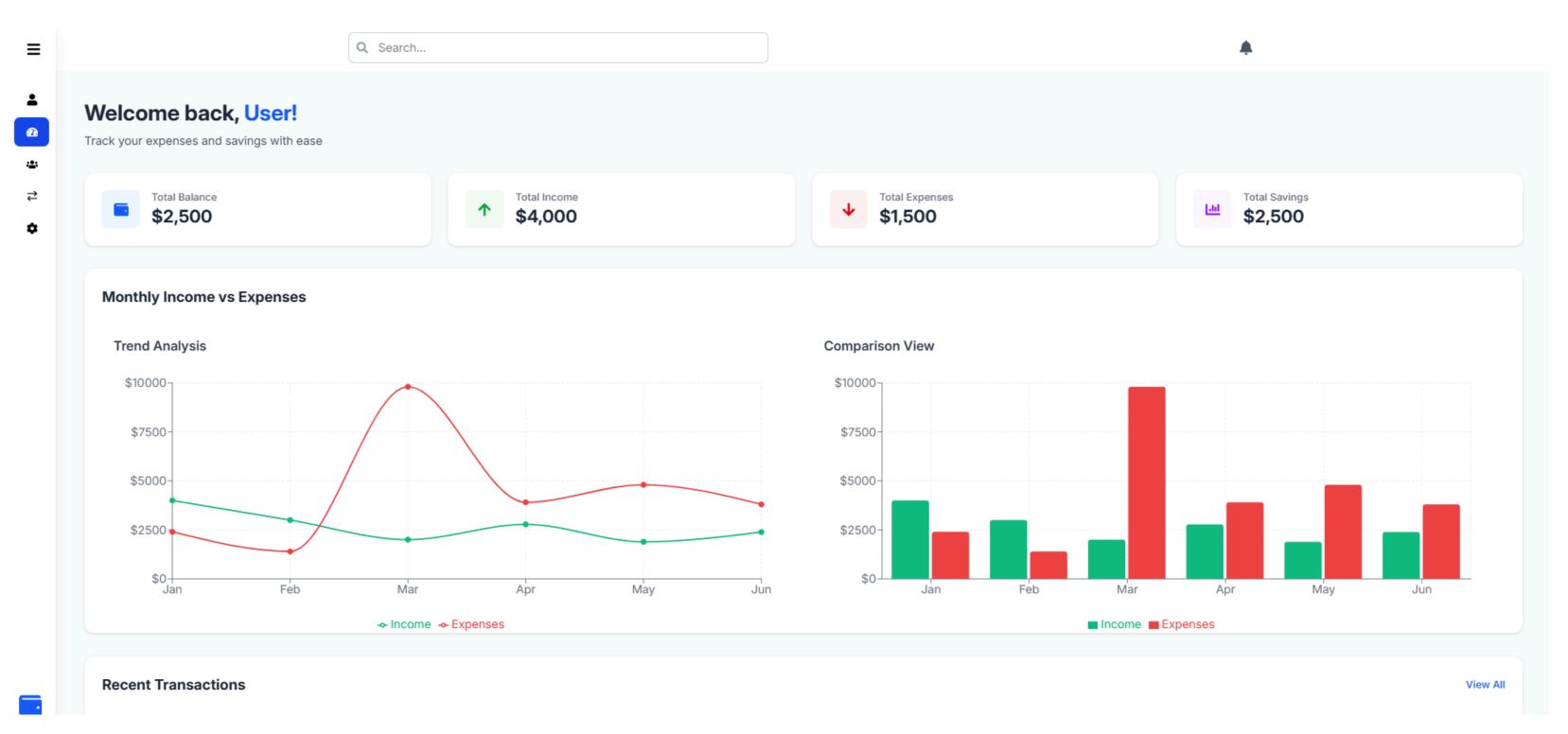


Landing Page



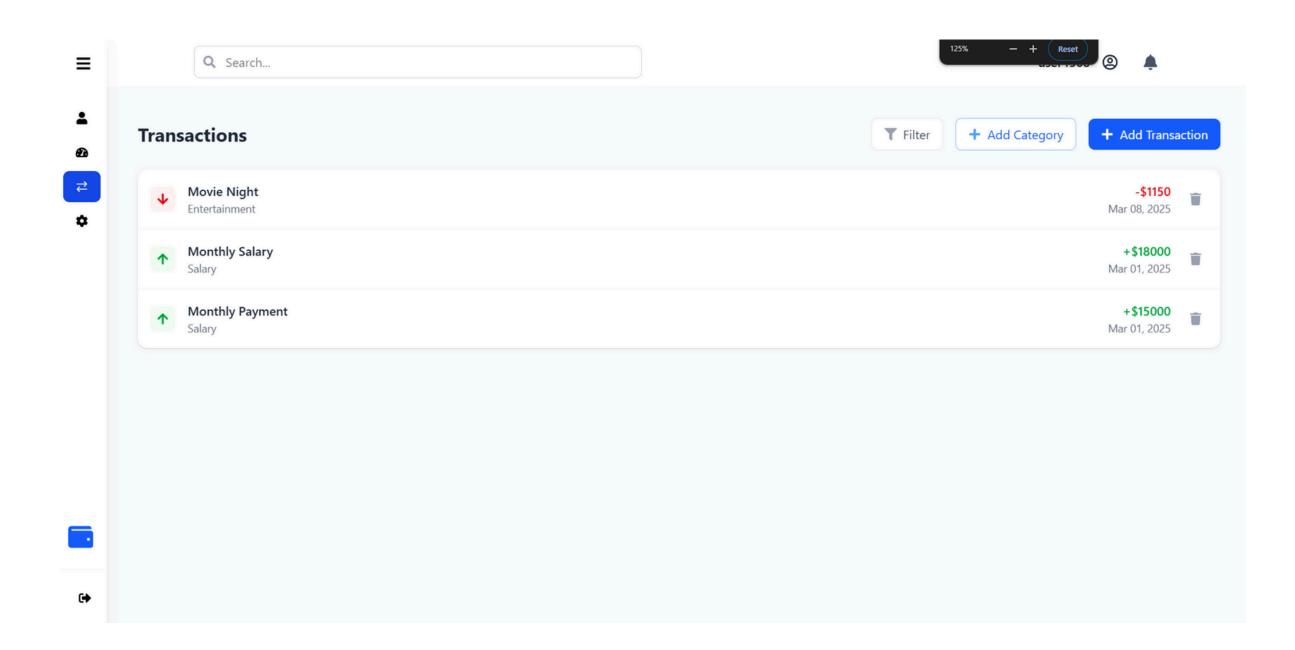
Signin/Signup Page

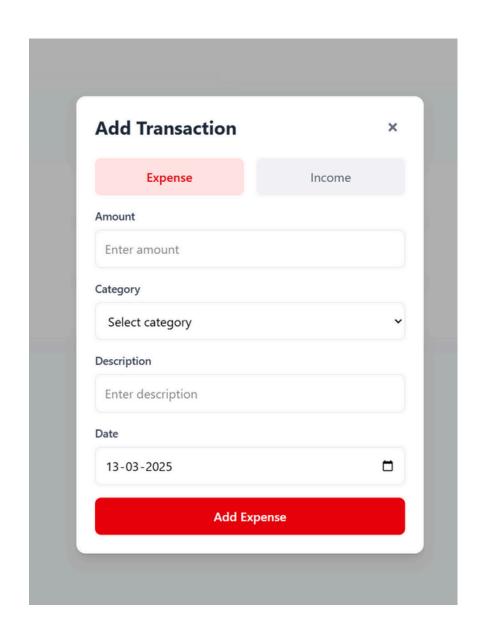
Frontend UI (User)



User Dashboard

Frontend UI (User)

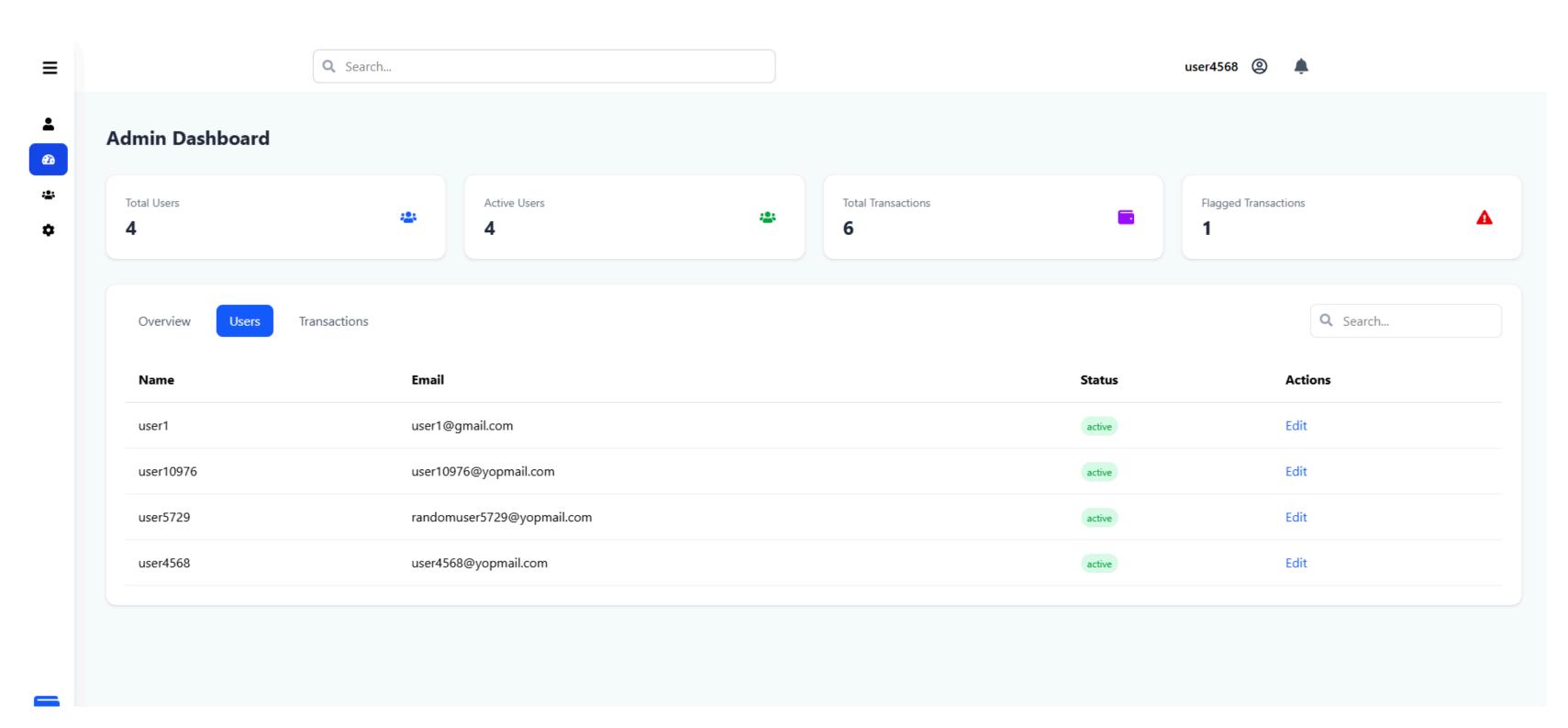




Transactions Page

Add Transaction

Frontend UI (Admin)



Admin Dashboard

Future Enhancements

- **Bank & Card Integration –** Sync with bank accounts and credit cards for automatic transaction tracking.
- Smart Notifications & Reminders Alerts for bill payments, budget limits, and upcoming expenses.
- Multi-Currency Support Convert and track expenses in different currencies for global users.
- **Enhanced Security –** Implement biometric login, two-factor authentication (2FA), and encryption.

Thank You