# SMARTE BENSE TRACIER

Ardent Computech Computer Science & Technology

**Minor Project** 

**Created By** 

**SAYAN MONI** 

**SOUMYA GHOSH** 

**ANKAN DAS** 

TRISHA SETH

**SONALI MALIK** 



#### TOPIC OUTLINE

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- 3. Advanced Features
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- 5. Unique Features
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#### SMART EXPENCE TRACKER WEBSITE

#### A BREIF INTRODUCTION OF OUR WEBSITE

The Smart Expense Tracker is an intelligent and user-friendly application designed to help individuals efficiently manage their daily, weekly, or monthly expenses. It automates the process of recording, categorizing, and analyzing expenditures, providing real-time insights into spending habits. With features like data visualization, budget setting, and alerts for overspending, this system empowers users to take control of their financial health. Whether for personal use or small businesses, the Smart Expense Tracker simplifies expense management through technology-driven solutions.



#### **OBJECTIVE**

The objective of building a food delivery website using the MERN stack (MongoDB, Express.js, Node.js) is to create a dynamic, user-friendly web application that allows users to interact, include:

- 1. User Authentication: Secure sign-up, sign-in, and session management.
- 2. Track Expenses: To track daily expences.
- 3. Save Expenses Record: Users can easily save their expense record
- 4. Auto-Generate PDF Report: Users receive instant PDF report of their expense by just one click .

# SCOPE

# The various objectives of the Smart Expense Tracker Website can be laid down as follows:

- I. User friendly Dashboard
- II. Easy Login-Logout System
- **III.** Expense Categorization
- IV. Secure user Authentication
- V. Real time balance check
- VI. Easy save process
- VII. Auto generate PDF



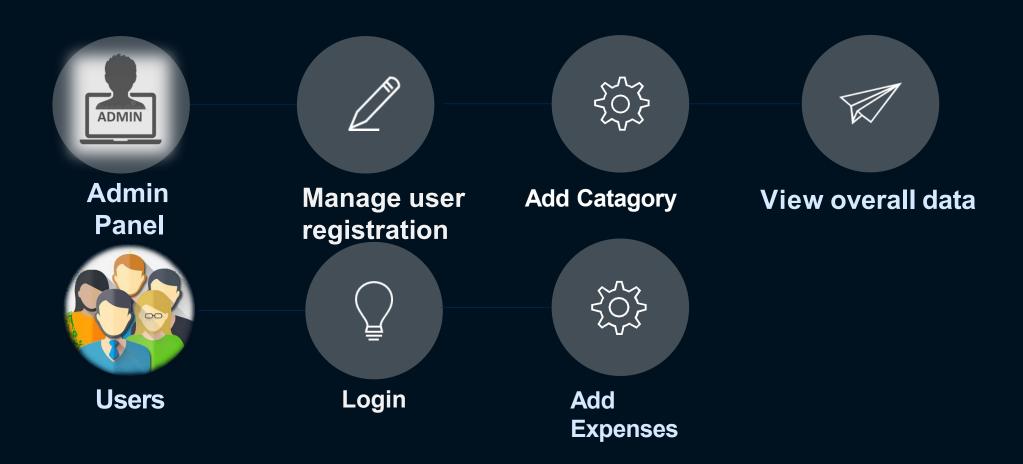
#### UNIQUE FEATURES

A food delivery website built using the MERN stack offers several unique features:

- 1. Scalable Database: MongoDB's flexible NoSQL structure supports the dynamic storage of Userdata.
- 2. Dynamic User Interface: React provides a responsive and interactive front-end, ensuring a smooth, fast user experience with features like.
- 3. High Performance: Express and Node.js optimize backend performance.
- 4. Modular Architecture: The MERN stack's modular nature allows easy integration of third-party services, like PDF generate, analytics, or db storage.



# **STRUCTURE**





## SYSTEM REQUIREMENT

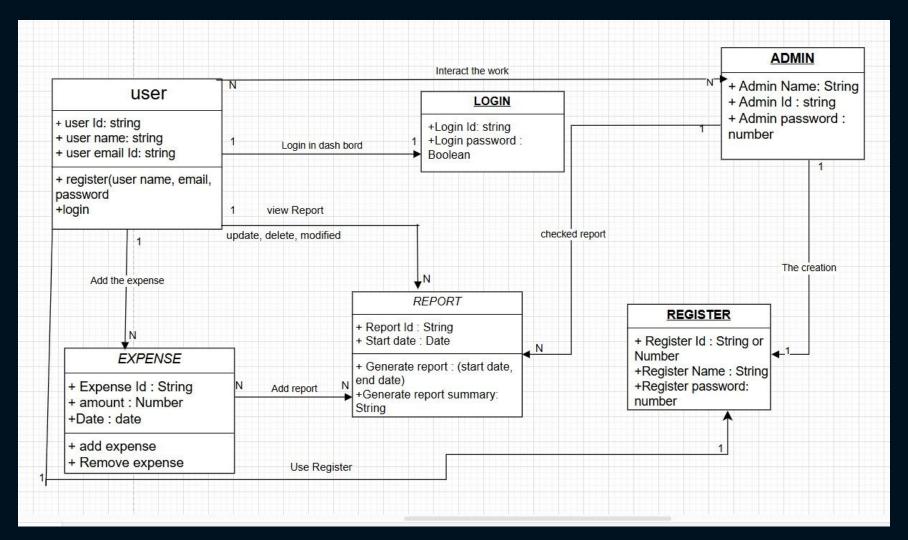
#### **HARDWARE REQUIREMENT:**

- PROCESSOR :- Dual core and above
- RAM / ROM :- 10 Gb of free disk space & minimum 8Gb of RAM
- MOTHERBOARD :- AMD Ryzen

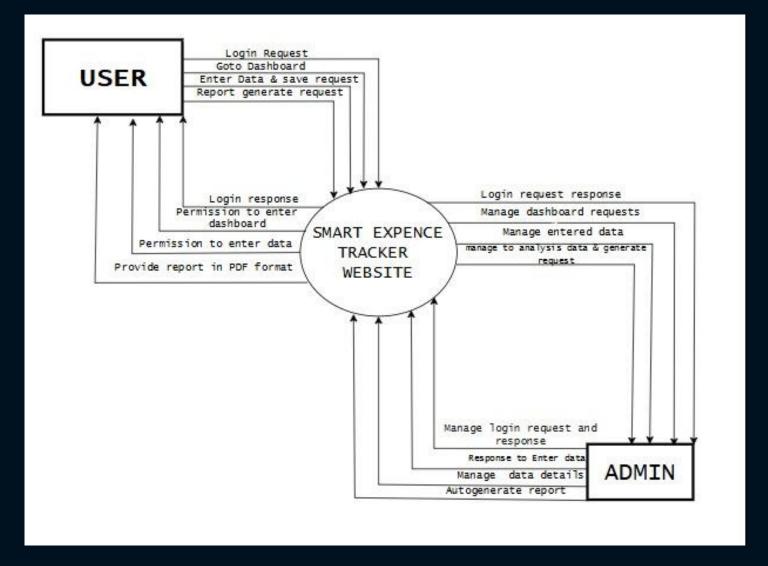
#### **SOFTWARE REQUIREMENT:**

- OPERATING SYSTEM :- Windows 10, 11
- PROG.LANGUAGE :- Express, Node JS, React, Bootstrap
- DATABASE :- MONGODB
- IDE USED :- VS Code

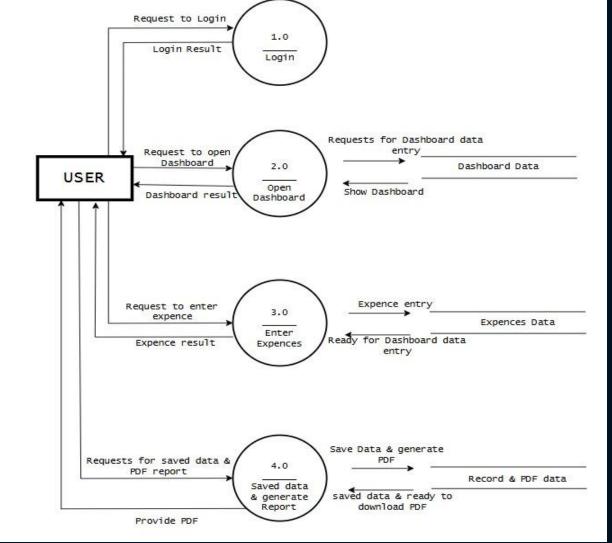
#### **SCHEMA DIAGRAM**



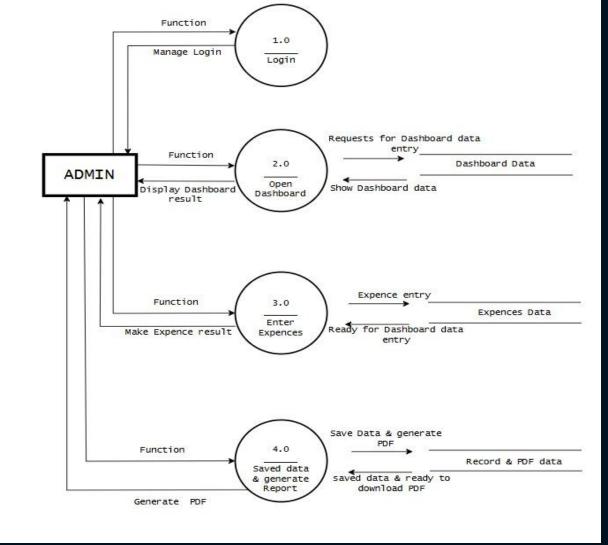
## LEVEL 0 DFD STRUCTURE



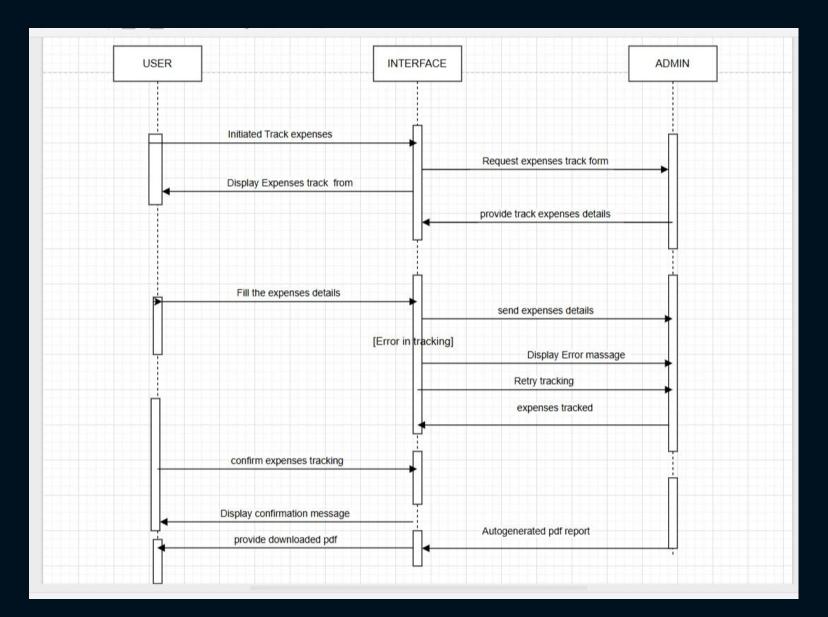
# LEVEL 1 DFD STRUCTURE FOR Request to Login 1.0



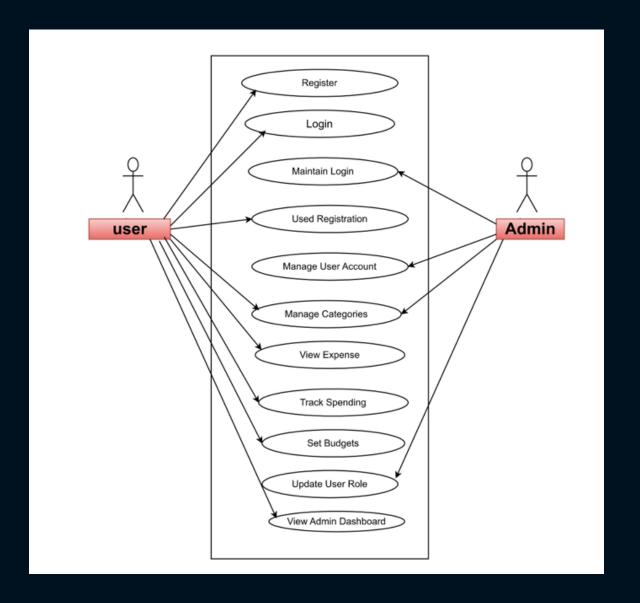
# LEVEL 1 DFD STRUCTURE FOR ADMIN



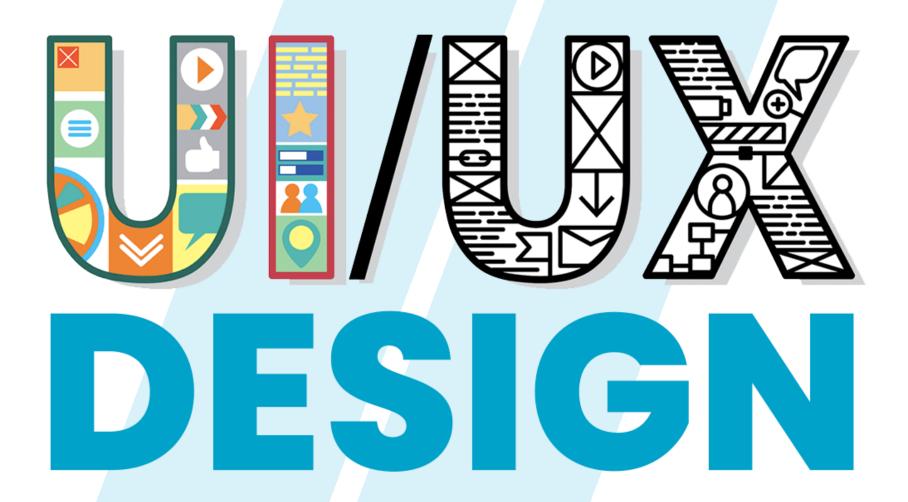
# SEQUENCE DIAGRAM



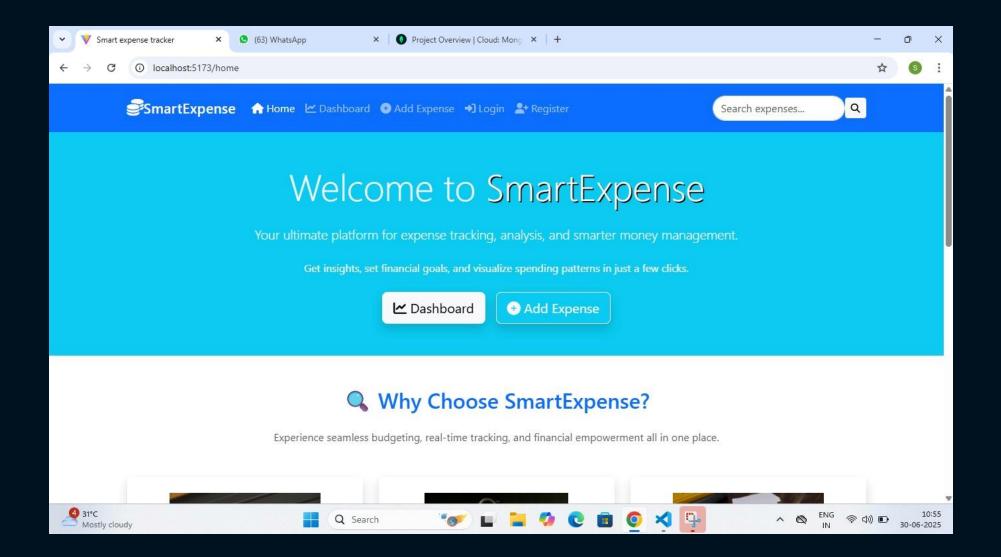
## **USE CASE DIAGRAM**



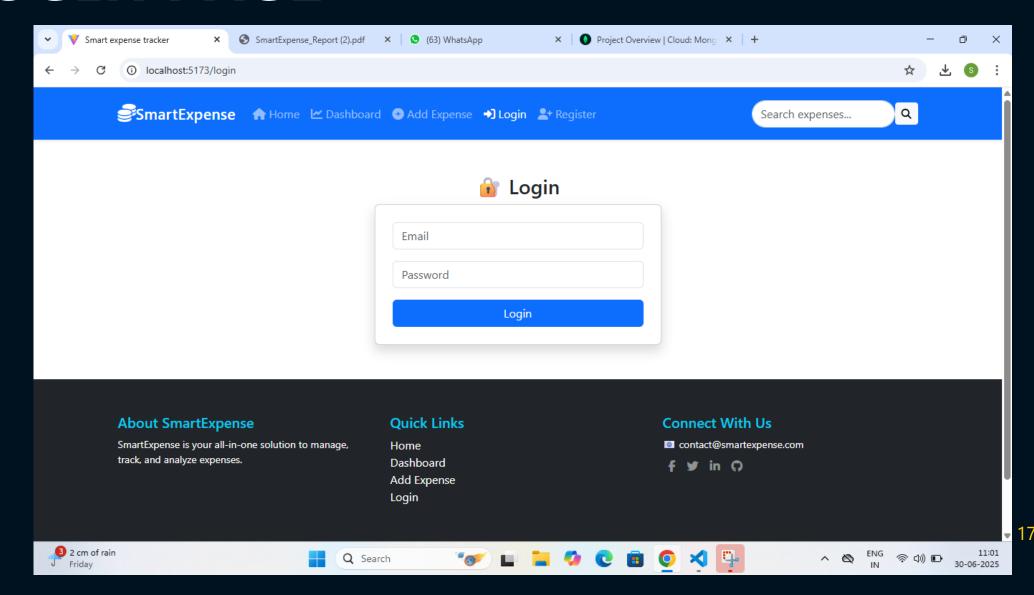
#### PROJECT'S UI



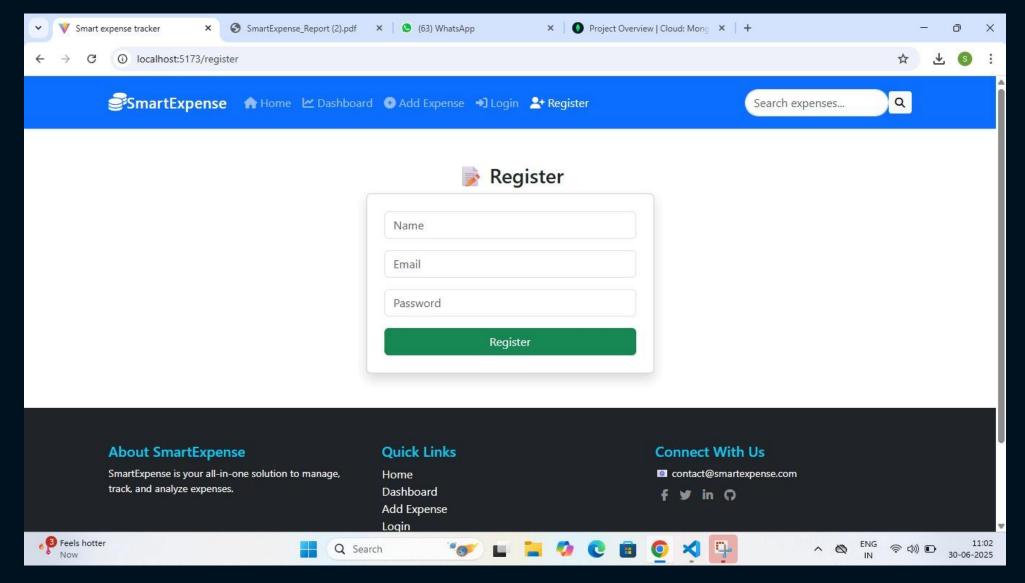
#### **HOME PAGE**



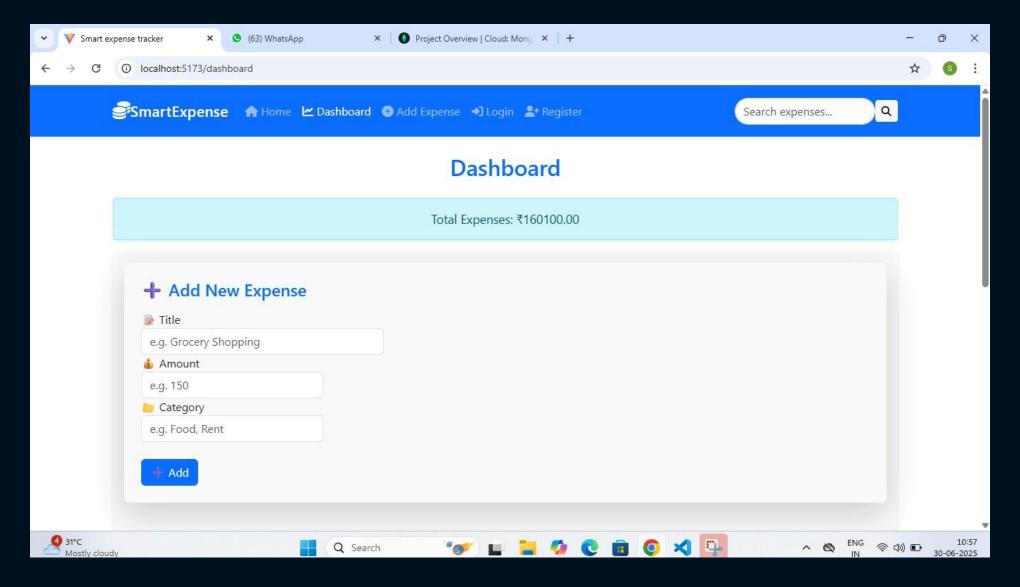
#### LOGIN PAGE



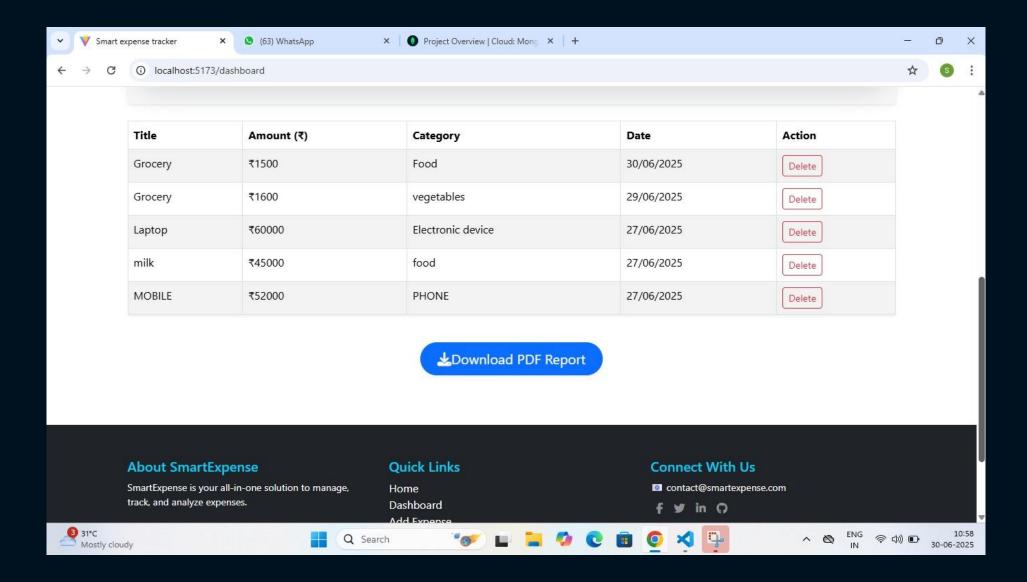
## SIGN-UP PAGE



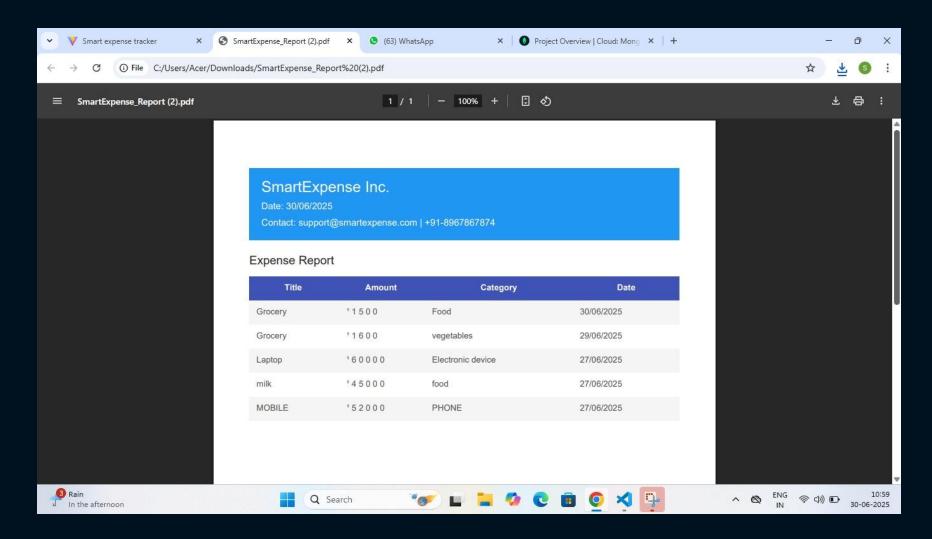
#### DASHBOARD PAGE



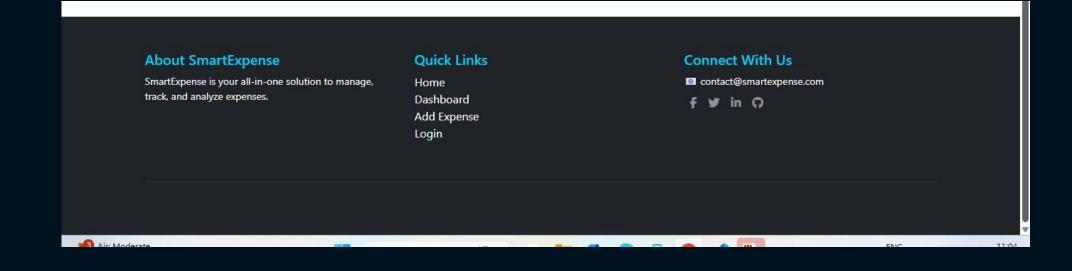
## **EXPENSE LIST PAGE**



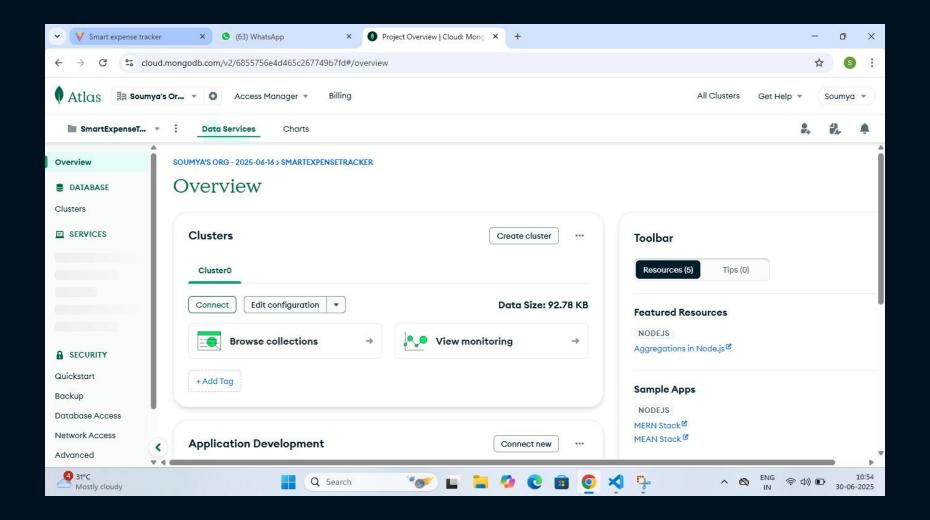
# AUTO GENERATED PDF REPORT PAGE



# **FOOTER**



#### **DATABASE**



#### **FUTURE SCOPE**

#### **Mobile App Development:**

-Launch Android and iOS apps using React Native for better reach and user convenience.

#### **Al-Based Expense Forecasting**

-Use machine learning to predict future expenses and income trends based on user behavior.

#### **Investment & Savings Tracker**

-Add features to track mutual funds, fixed deposits, SIPs, and other investments.

#### **Tax Filing Support**

-Automatically generate tax-ready reports based on categorized expenses.

#### **Biometric Login for Security**

-Fingerprint or face recognition support for secure and quick access.

#### **Gamification for Saving Goals**

-Add points, badges, and progress levels to encourage better money habits.

#### Family/Group Budgeting

Shared expense tracking for households, roommates, or travel groups.

#### CONCLUSION

The Smart Expense Tracker Website offers a modern, user-friendly, and efficient solution for managing personal finances.

It simplifies the process of tracking income and expenses, setting budgets, and analyzing spending patterns — all in one secure platform. With its intuitive interface, advanced features, and potential for future enhancements like Al integration and UPI syncing, this project not only meets current financial tracking needs but also lays a strong foundation for scalable financial management solutions.

"Smart saving starts with smart tracking."



# The Final Summary of The Project.

Developed a expense tracker website to connect users.

Focused on secure user data handling and smooth transaction flows.

"Every rupee counts----We make counts
Better

Designed with scalability, performance, and user experience as core priorities.

Provides a strong foundation for future enhancements like real-time tracking and mobile app integration.



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