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Expense Tracker Web Application

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ABSTRACT :

Expense Tracker is an web based system that allows users to easily manage and track their financial transactions. This helps users record and classify their expenses after day, week and month, making the budget and financial plan easier. The application provides interactive graphic reports to users that provide a visual representation of expenses, while their expenses also maintain the story that can be seen at any time. This is a reminder notification functionality to remind users of bill payments, pay too much salary or reach the budget limit and to improve the user's financial discipline. The spending tracker provides a simple user interface that should facilitate better financial decisions and reduce trivial expenses, which will promote better financial control. This research thesis describes the development, implementation and goals of the system in helping better financial management techniques of customers using a structured digital format.

Keywords— Expense Tracker, Reminder Notifications, Money Management, Financial Management, Budgeting, Expense Analysis, Savings Optimization

INTRODUCTION

The Expense Tracker allows people to monitor, categorize, and compare their expenditures on a day-to-day, weekto-week, and month-to-month basis, simplifying the budgeting and planning of finances. The system provides dynamic graphical reports in interactive form, which visually display expenditure patterns, and hence, aid a better understanding of expenditure patterns by users. The platform also has a reminder notification system, reminding bill payment users, salary overspending, and budget levels ,advising individuals to be economically disciplined and refrain from wasteful expenses. The Expense Tracker facilitates easier managing of money through its simple interface by enabling users to make intelligent decisions, reduce avoidable expenses, and be more in charge of their money. This research paper discusses the development, implementation, and objectives, and contribution of digital money management and user money literacy.

PROBLEM STATEMENT

Each earning individuals are largely fanatics at the end of the month since the they do not know where all of their money have vanished when they have spent and are left to survive in meager money reducing their basic necessities. There is no such total solution available easily or we should say without any cost which allows an individual to keep a record of its daily spend money easily and inform them if they are about to experience money shortage. For that one needs to maintaina log in a diary or on a computer, also the calculations must be made by the user which at times leads to mistakes causing losses. Because of not havinga complete tracking mechanism, there is always an over load to be based on the daily posting of the expenditure and overall estimation up to the end of the month.

METHODOLOGY

Expense Tracker will be a web application so that It can be used anytime needed. This app will be having two-tier architecture: first one is the database tier, where all data and financial data will be saved. Second it will be the user interface which will assist the application user interact with the system and also save Information in the database. The proposed system should work offline so it can be accessed at any time without internet availability. The proposed system should offer various categories for the user to choose from and they can input the amount and payment mode. The system should be capable of analyzing the information, offering analytics on which category did the user spend most of their money. The proposed system should give a user interface where the user could store and observe their past expenses.

OBJECTIVES

1. 1.Supports easy-to-use interface for recording and tracking daily expenses.
2. 2.Secures safe user login for individual data tracking.

3. 3.Creates category-oriented categorization and filtering for optimal expense management.
4. 4.Facilitates real-time budgeting monitoring and spending analysis.
5. 5.Creates user trust with data privacy and safe cloud storage.
6. 6.Supports financial responsibility with insights and saving recommendations.
7. 7.Optimal performance and scalability for users to monitor, manage, and analyze expenses in the long run.

REQUIREMENT SPECIFICATION

Table 1: Software Requirements

OPERATING SYSTEM	**WINDOWS OS / ANY OS**
IDE	VISUAL STUDIO CODE
SOFTWARES	HTML, CSS, MySQL

Table 2: Hardware Requirements

CPU	**MINIMUM 2 CORES AND 4 THREADS**
RAM	MINIMUM 4 GB
MEMORY	MINIMUM 128 GB

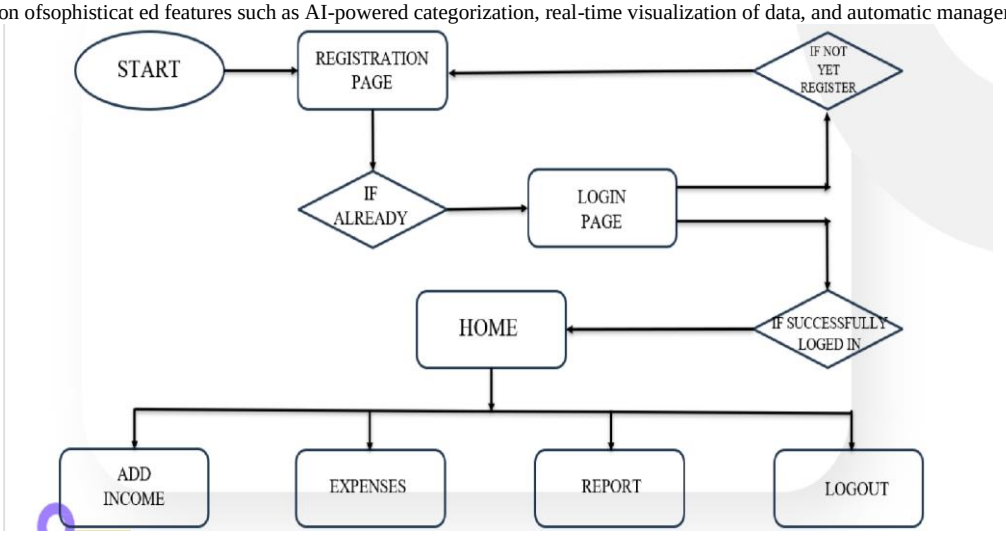
Database Requirements: Installation of MongoDB
User Requirements: Laptop or PC with browser and internet connection.

TECHNOLOGIES USED FOR IMPLEMENTATION

Front-end: HTML, CSS (Bootstrap for responsive design), JavaScript for dynamic interaction, React
Back-end:Node.js,PHP
Database: MongoDB, MySQL Cloud Hosted

SYSTEM ARCHITECTURE

The Expense Management System is a web-based solution that is set to offer the user an easy, automated, and convenient solutionfor monitoring andmanagingtheir expenditure. The system is intended to surpass the di sadvantages of conventional manual systems and primitive digitaltools through the incorporation ofsophisticat ed features such as AI-powered categorization, real-time visualization of data, and automatic management of budgets.



Result :

Fig 1: Registration Page

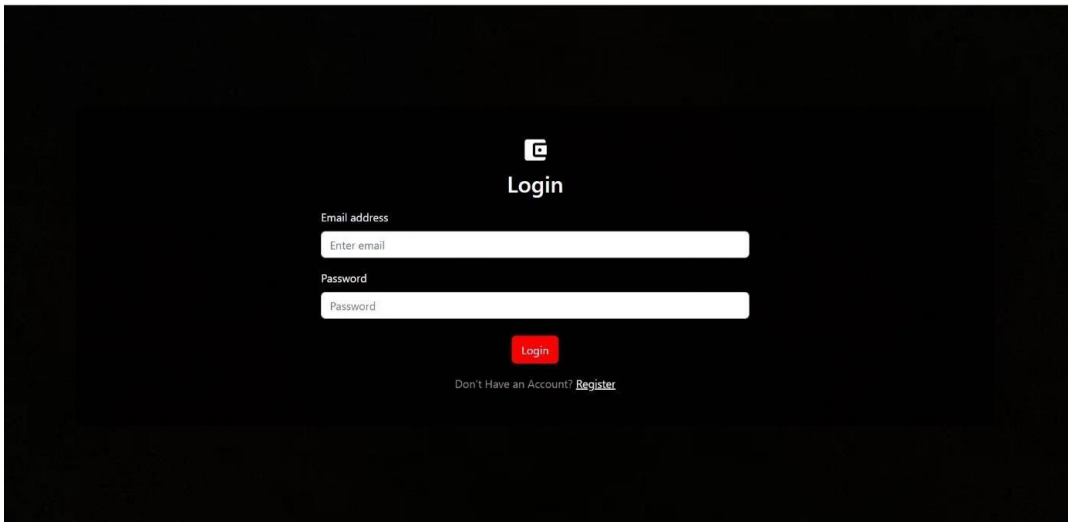


Fig2: Login Page

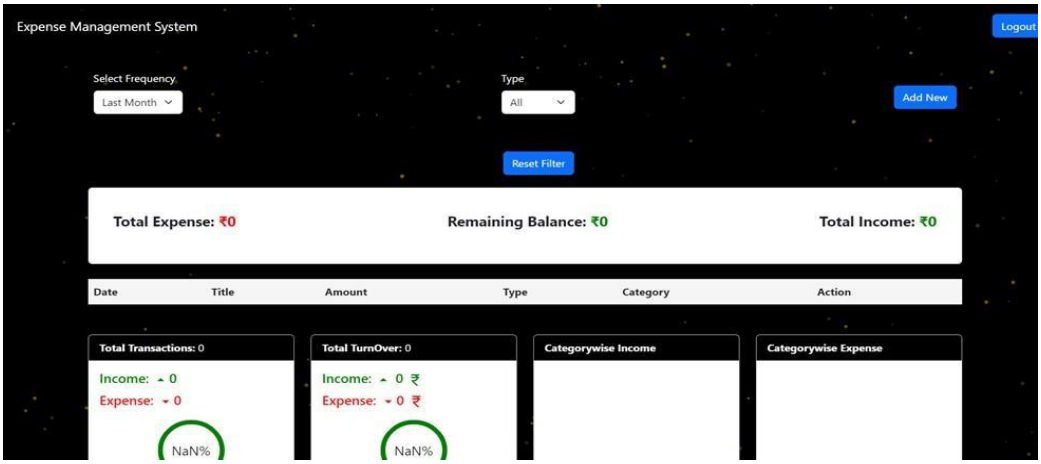


Fig 3: Home Page

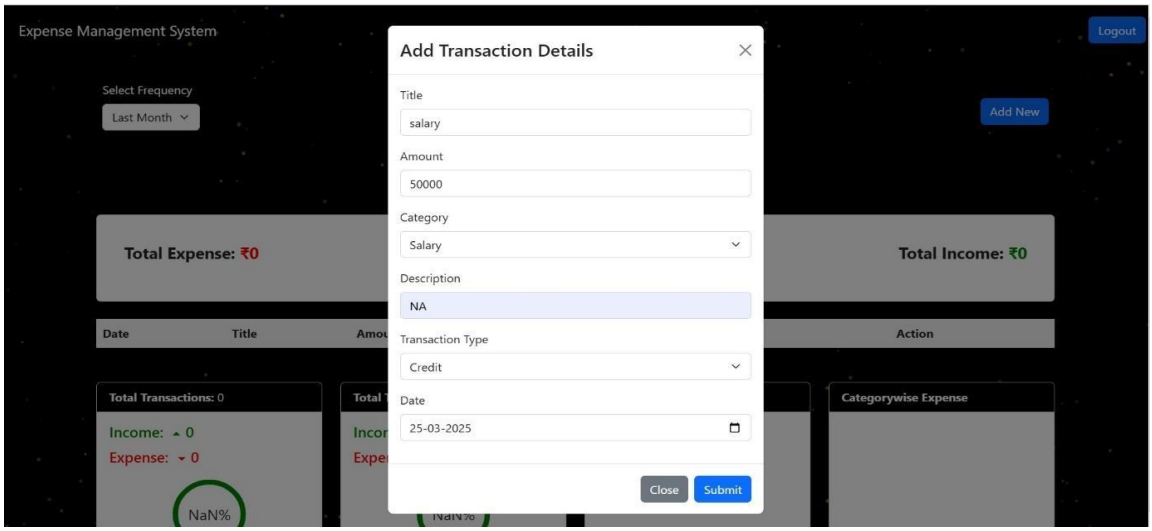


Fig 4: Budget Page

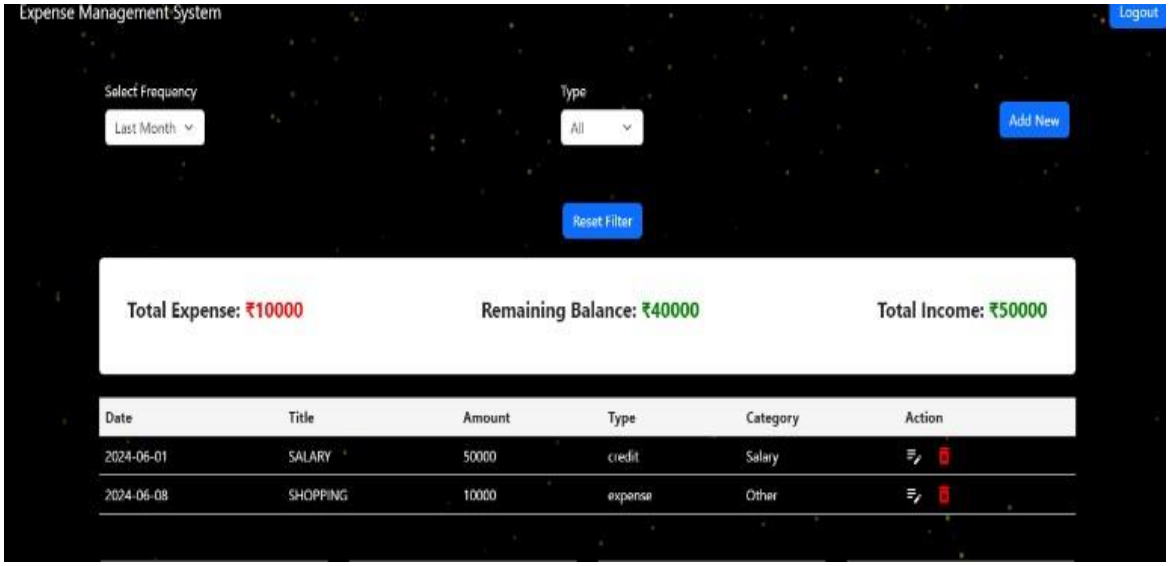


Fig 5: Expense Page

Conclusion

In conclusion, Expense tracker web application will assist its users in handling the expense of their daily spending. It will direct them and make them aware of there day-to-day expenses. It will be beneficial for the individuals who are annoyed with their everyday budget handling, agitated due to quantity of expenditure and wants to control money and to keep record of their daily expense which might be useful to transform their mode of spending money. In short, this application will assist its users in eliminating wastage of money.

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