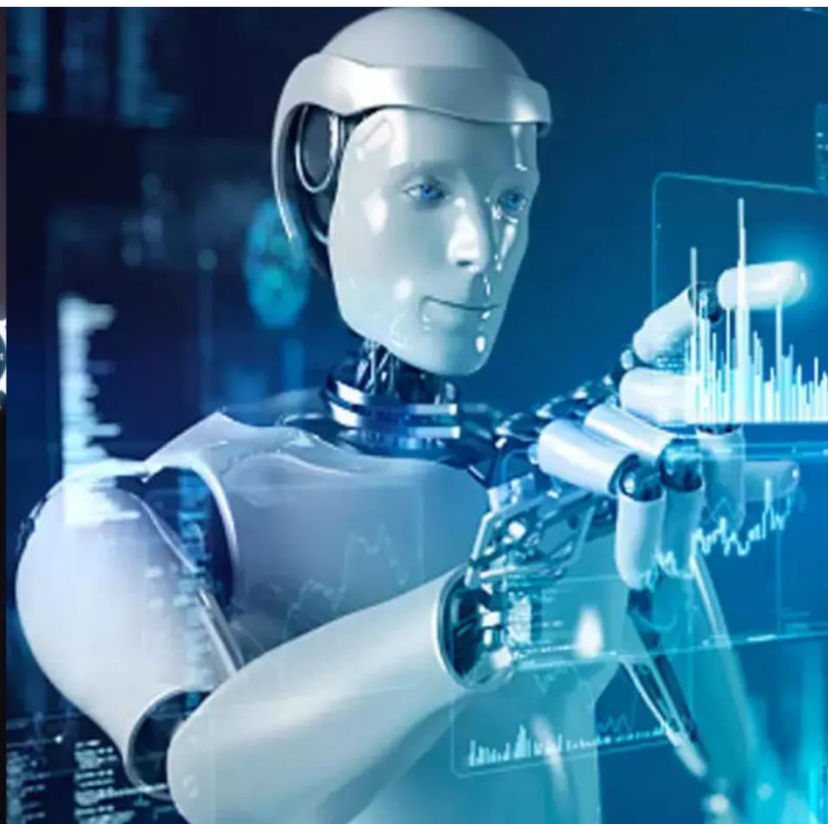




International Journal of Innovative Research in Science Engineering and Technology (IJIRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)



Impact Factor: 8.699

Volume 14, Issue 11, November 2025

Personal Expense Tracker: Take Control of Your Finances

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ABSTRACT: In the modern digital age, efficiently managing personal finances has become crucial for maintaining financial stability and making informed decisions. The Personal Expense Tracker is a user-friendly application designed to help individuals monitor, analyze, and control their daily expenditures with ease. This system allows users to log income and expenses, organize transactions into categories, and view spending trends through interactive charts and summaries. Utilizing database management and automation, it maintains accurate financial records while minimizing manual work. The project emphasizes data security, simplicity, and accessibility, offering users real-time insights into their financial behaviour. Ultimately, this tool aims to promote financial awareness, encourage saving habits, and empower users to make smarter financial choices in their day-to-day lives.

KEYWORDS: Personal Finance, Expense Tracking, Budget Management, Data Visualization, Financial Planning, Income and Expenditure Analysis, SQLite Database, Automation, Financial Awareness, User-Friendly Interface.

I. INTRODUCTION

Financial management plays a crucial role in maintaining stability and achieving long-term goals in an individual's life. With the increasing complexity of modern lifestyles, people often struggle to monitor and control their daily expenses effectively. Conventional approaches like manual record-keeping or using spreadsheets are tedious, error-prone, and fail to provide the analytical insights required for effective decision-making.

The Personal Expense Tracker project aims to provide a digital solution that simplifies the process of tracking income and expenditures. It enables users to log transactions, classify their expenses, and create visual reports that reveal their spending patterns. By offering real-time access to financial data, the system helps users identify unnecessary expenses and encourages responsible financial behaviour.

This project focuses on combining simplicity, accuracy, and usability through a structured database and an intuitive interface. The integration of data visualization tools further enhances the user experience by presenting complex financial information in an easily understandable form. Overall, the Personal Expense Tracker serves as a practical tool for promoting financial awareness, improving budgeting skills, and supporting individuals in achieving financial discipline and stability.

II. LITERATURE SURVEY

Several studies and applications have focused on improving personal finance management through digital expense tracking systems. Existing research emphasizes the importance of automation, data visualization, and ease of use in helping individuals manage their income and expenses effectively. Traditional manual methods are being replaced by intelligent systems that record, categorize, and analyze financial transactions with higher accuracy.

Volume 14, Issue 11, November 2025**|DOI: 10.15680/IJIRSET.2025.1411096|**

Modern expense trackers such as Wallet, Money Manager, and Mint utilize database-driven architectures and visualization tools to provide real-time insights into spending patterns. Researchers have highlighted that visual representations like pie charts and bar graphs significantly enhance financial understanding and decision-making. Furthermore, integrating automation techniques such as expense categorization and predictive analytics—reduces manual effort and increases user engagement.

However, many existing systems face limitations related to data privacy, offline accessibility, and user adaptability. To address these challenges, the proposed Personal Expense Tracker focuses on providing a simple, secure, and interactive platform for efficient financial tracking. By combining data visualization, structured storage, and user-friendly design, it aims to bridge the gap between financial awareness and effective money management.

III. METHODOLOGY

The development of the Personal Expense Tracker follows a systematic approach aimed at designing a reliable and user-friendly financial management system.

1. Requirement Analysis:

User requirements were gathered to identify key functionalities such as adding, updating, deleting, and viewing expenses, along with income tracking and data visualization. The main objective was to provide simplicity, accuracy, and security in managing personal finances.

2. System Design:

The system architecture is designed using a modular approach. The user interface was developed to ensure easy navigation and clear visualization of financial data. A relational database (SQLite) was used to store transaction records, ensuring efficient data management and retrieval.

3. Implementation:

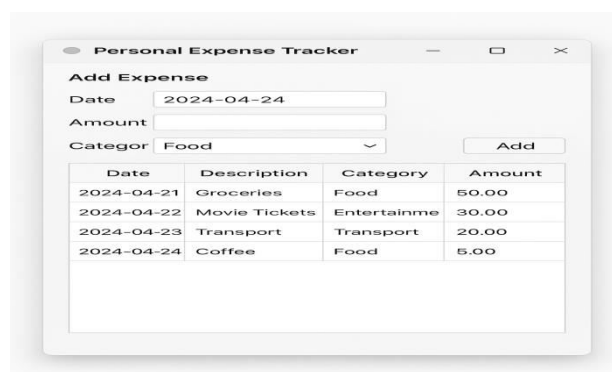
This application is implemented using Python with Tkinter for the GUI. Modules were created for user registration, expense entry, category management, and report generation. Data visualization was achieved using libraries such as Matplotlib to generate charts and summaries.

4. Testing:

In this phase each module underwent unit and integration testing to ensure correctness. User testing was conducted to evaluate usability, responsiveness, and overall system performance.

5. Evaluation:

The system was assessed based on accuracy, efficiency, and user satisfaction. The results showed that the Personal Expense Tracker successfully met its goals of simplifying expense management and improving financial awareness among users.

IV. EXPECTED RESULTS

V. CONCLUSION

The Personal Expense Tracker successfully provides an efficient and user-friendly solution for managing personal finances. By integrating income and expense tracking with data visualization and categorized summaries, the system helps users gain better control over their financial activities. The use of a structured database ensures data accuracy and reliability, while the interactive interface enhances accessibility for all types of users.

The project demonstrates how technology can simplify everyday financial management and promote financial discipline. Through continuous use, individuals can identify spending patterns, minimize unnecessary expenses, and make informed financial decisions. Future enhancements may include adding cloud synchronization, mobile integration, and predictive analytics to make the system more intelligent and versatile for modern financial needs.

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