



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

A

MINI PROJECT REPORT

ON

“PERSONAL EXPENSE TRACKER”

SUBMITTED TO THE SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

IN THE FULFILLMENT OF THE REQUIREMENT

OF

Web Technology Laboratory

Third Year Computer Engineering

BY

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Under the Guidance of

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Sinhgad Institutes

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STES'S SINHGAD INSTITUTE OF TECHNOLOGY AND SCIENCE

NARHE, PUNE – 411041

2023-2024



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studying in TE Computer Engineering Course SEM-VI has successfully completed their WT Lab Mini-Project work titled **PERSONAL EXPENSE TRACKER** at Sinhgad Institute of Technology and Science, Narhe in the fulfillment of the Bachelor's Degree of Computer Engineering in **Savitribai Phule Pune University**, during the academic year 2023-2024.

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Place: Pune

Date:

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Name of students

Signature

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1. INTRODUCTION

The Personal Expense Tracker is a web application designed to help users manage their income, savings, and expenditures. It provides an efficient and convenient way to track financial transactions, ensuring better money management. This report outlines the key aspects of the Expense Tracker system. In today's fast-paced world, managing personal finances efficiently has become increasingly important. Keeping track of expenses, budgeting, and analyzing spending patterns are crucial aspects of financial management that can often be challenging to handle manually. To address this need, our team embarked on the development of a web-based

The Personal Expense Tracker aims to provide users with a user-friendly and intuitive platform to monitor their expenditures, categorize expenses, set budgets, and gain insights into their spending habits. By leveraging modern web technologies, we have created a dynamic and responsive application accessible across various devices, including desktops, tablets, and smart phones. The current lack of a complete solution for tracking daily expenditures is causing a constant overload for users. This project aims to manage expenses more efficiently and manageably by freeing users from manual calculations and allowing them to plan ahead with past budgets in mind. The system allows users to add, delete and change for reminders. The graphical budget representation is appealing and easy to understand, making it suitable for future planning.

This project not only serves as a practical application of concepts learned in the Web Technology course but also provides a valuable tool for individuals seeking to take control of their finances. Through the implementation of features such as interactive charts, customizable categories, and real-time updates, our Personal Expense Tracker offers a comprehensive solution for users to manage their financial data effectively.

2. SCOPE

Functionalities:

1. Expense Tracking: Record daily expenses with amount, category, and date.
2. Budgeting: Set monthly/weekly budgets, receive alerts near limit.
3. Reports & Analysis: Detailed spending reports, visualizations.
4. Multi-Device Sync: Accessible from any device, real-time sync.
5. Security: Strong user authentication, data encryption.
6. User-Friendly Interface: Intuitive interface for easy expense tracking.
7. Currency Support: Record expenses in multiple currencies.
8. Offline Functionality: Record expenses offline, sync when online.

Future Considerations:

- Expanding category options for detailed expense tracking.
- Implementing features for managing debt and savings goals.
- Allowing users to connect with budgeting partners or share financial data (with appropriate security measures).
- Exporting financial data to different formats (e.g., CSV, PDF).

3. REQUIREMENTS

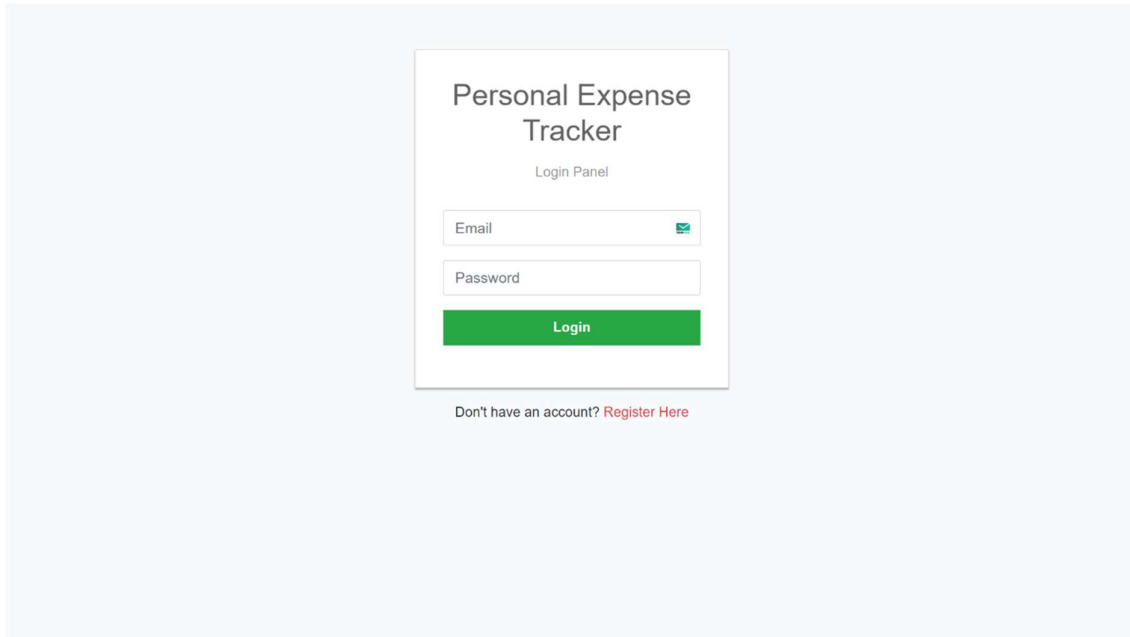
Software Requirements:

- **Operating System:** Windows 10/11, macOS, or Linux (depending on developer preference)
- **Programming Language:**
 - Front-end: HTML, CSS, JavaScript (popular frameworks like React, Angular, or Vue.js can be used for faster development and interactivity)
 - Back-end: Languages like PHP and MySQL are Used
- **Database:** A relational database management system (RDBMS) like MySQL, PostgreSQL, or SQL Server is ideal for storing user data and transactions.
- **Development Tools:**
 - Code editor/IDE (e.g., Visual Studio Code, Sublime Text, IntelliJ IDEA)
 - Version control system (e.g., Git) for code collaboration and version tracking.
 - Web server (e.g., Xampp, Apache, Nginx) to run the application locally during development.

Hardware Requirements:

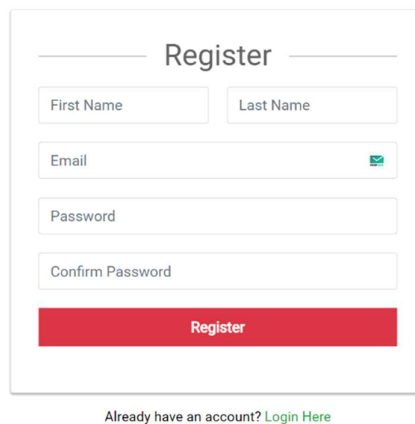
- **Processor:** Modern processor (i5 or equivalent) with sufficient processing power for development tasks and database operations.
- **RAM:** Minimum 8GB RAM for smooth development experience, especially when dealing with multiple tools and running the application locally.
- **Storage:** Adequate hard drive space (at least 500GB) to store development tools, codebase, and database.
- **Internet Connection:** Reliable internet connection for downloading libraries, frameworks, and accessing online resources.

4. IMPLEMENTATION



The image shows a login page for a 'Personal Expense Tracker'. The page has a light blue background. In the center, there is a white box with a thin grey border. Inside the box, the title 'Personal Expense Tracker' is at the top in a large, dark grey font. Below it, 'Login Panel' is written in a smaller, lighter grey font. There are two input fields: 'Email' and 'Password'. The 'Email' field has a small green checkmark icon on the right. Below the input fields is a green button with the text 'Login' in white. Below the white box, there is a line of text: 'Don't have an account? [Register Here](#)'.

Fig 4.1: Login Page



The image shows a register page for a 'Personal Expense Tracker'. The page has a light blue background. In the center, there is a white box with a thin grey border. Inside the box, the title 'Register' is at the top, flanked by horizontal lines. Below the title, there are four input fields: 'First Name', 'Last Name', 'Email', and 'Password'. The 'Email' field has a small green checkmark icon on the right. Below the input fields is a red button with the text 'Register' in white. Below the white box, there is a line of text: 'Already have an account? [Login Here](#)'.

Fig 4.2: Register Page

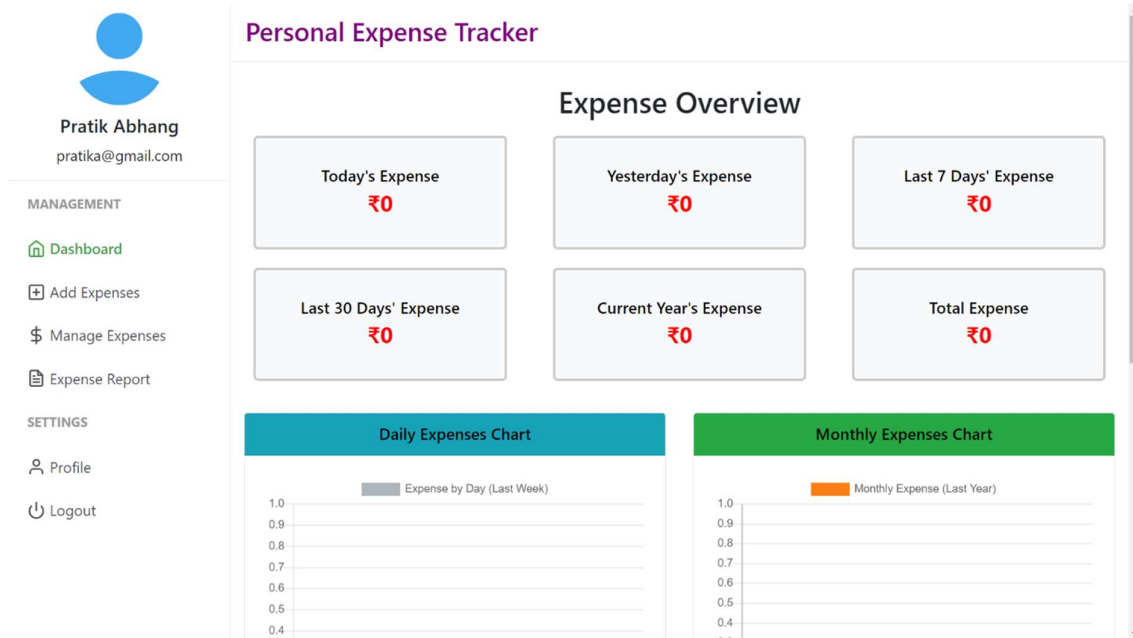



Fig 4.3: Dashboard

The "Add Your Daily Expenses" form includes a sidebar for the same user. The form fields are: "Enter Amount" (text input with value 1000), "Date" (calendar icon and value 01-01-2024), and "Category" (dropdown menu with value Medicine). A green "Add Expense" button is at the bottom.

Fig 4.4: Add Expense



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MANAGEMENT

- Dashboard
- Add Expenses
- Manage Expenses**
- Expense Report

SETTINGS


- Profile
- Logout

Manage Expenses

Sort By: Recently Added

Sl No.	Date	Amount	Expense Category	Action
1	2024-03-31	560	Others	Edit Delete
2	2024-03-15	3500	Household Items	Edit Delete
3	2024-03-01	4000	Rent	Edit Delete
4	2024-02-15	1500	Clothings	Edit Delete
5	2024-02-01	2460	Entertainment	Edit Delete
6	2024-01-31	2700	Bills & Recharges	Edit Delete
7	2024-01-15	1900	Food	Edit Delete
8	2024-01-01	1000	Medicine	Edit Delete

Fig 4.5: Manage Expenses



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MANAGEMENT

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SETTINGS

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Expense Report

Select Report Type: Datewise Report

Start Date: 08-04-2024

End Date: 08-04-2024

[Generate Report](#)

Generated Report

Sl No.	Date	Total Amount
1	2024-01-01	1000
2	2024-01-15	1900
3	2024-01-31	2700
4	2024-02-01	2460
5	2024-02-15	1500
6	2024-03-01	4000
7	2024-03-15	3500
8	2024-03-31	560

Fig 4.6: Expense Report

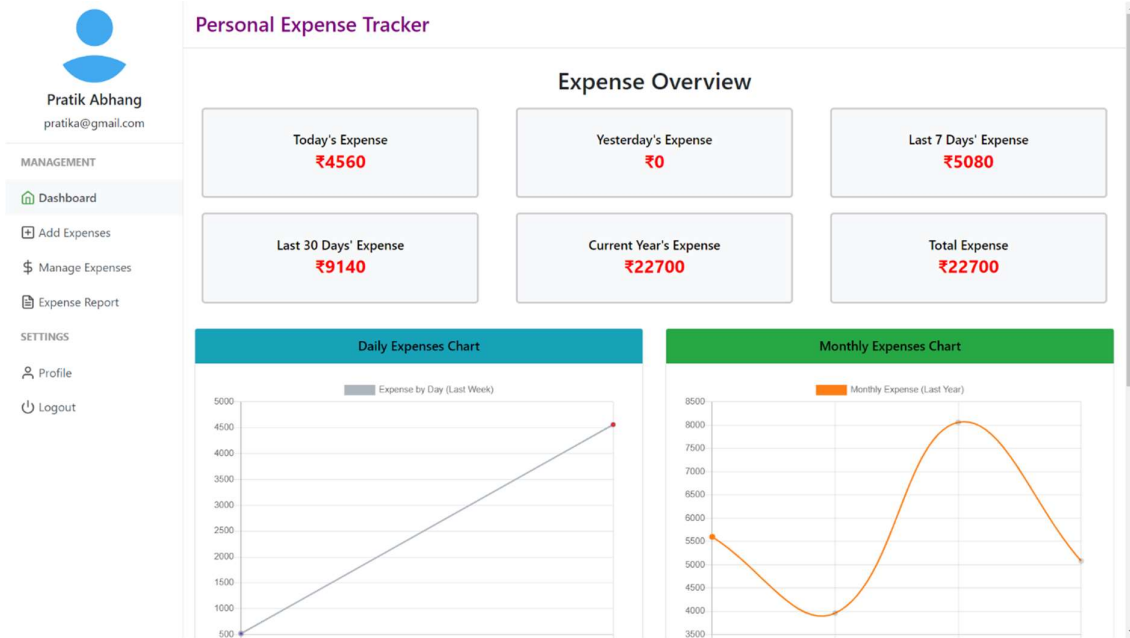


Fig 4.7: Expenses Graphical Representation



Fig 4.8: Graphical Representation

5. GRAPHICAL USER INTERFACE

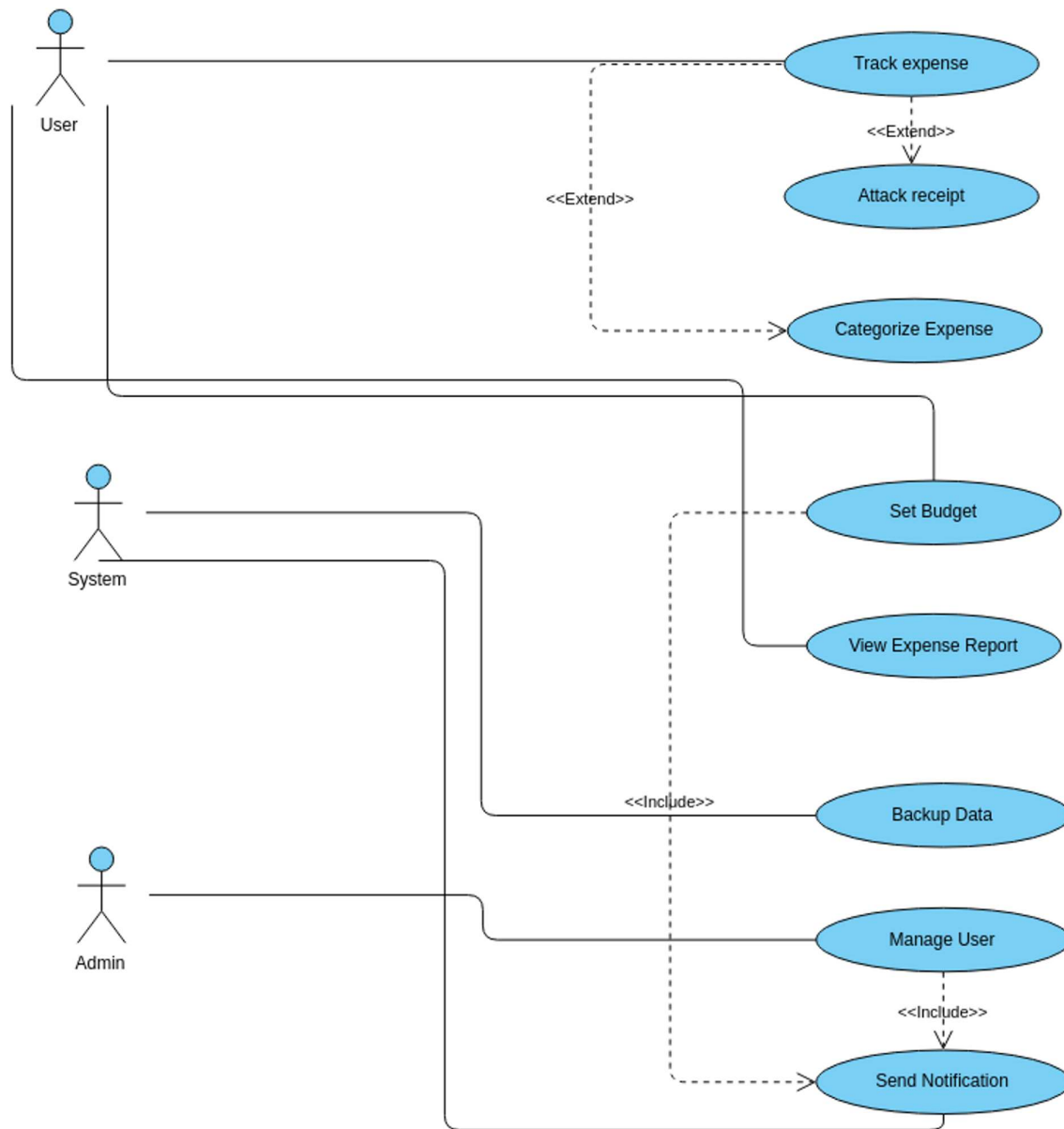


Fig 5.1: Personal Expenses Tracker User Interface

6. TEST CASES

Feature	Test Case ID	Description	Expected Result	Pass/Fail
Login/Registration	TC-1	User attempts to login with valid credentials	User is successfully logged in and redirected to the expense tracker dashboard.	Pass
	TC-2	User attempts to login with invalid username	An error message is displayed indicating "Invalid username or password."	Pass
	TC-3	User attempts to login with invalid password	An error message is displayed indicating "Invalid username or password."	Pass
Add Expense	TC-4	User enters valid expense details and submits	The new expense is added to the expense list, and the total balance is updated accordingly.	Pass
	TC-5	User leaves an expense field blank	An error message is displayed indicating the missing field.	Pass

Delete Expense	TC-6	User selects an existing expense and clicks the "Delete" button	The selected expense is removed from the list, and the total balance is updated accordingly.	Pass
Update Expense	TC-7	User selects an existing expense, edits its details (e.g., category, amount, description), and saves	The updated expense details are reflected in the list, and the total balance is adjusted if necessary.	Pass
Graphs & Reports	TC-8	User selects a specific time period (e.g., month, year) to view expenses by category	A graph or chart visually represents the distribution of expenses across categories for the chosen period.	Pass

7. CONCLUSION

A personal expense tracker empowers you to take control of your finances. By diligently tracking your income and outgoings, you gain valuable insights into your spending habits. This knowledge allows you to make informed decisions, set realistic budgets, and achieve your financial goals. With features like expense categorization, budgeting tools, and insightful reports, a personal expense tracker becomes a powerful ally on your journey to financial well-being.

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