

Experiment 6 : ROSPL Lab

Aim: To contribute to an open-source project by identifying, analyzing, and resolving a real-world issue in a web application, thereby gaining practical experience in collaborative software development, version control, and improving application usability.

Changes Made:

This PR introduces a comprehensive data visualization feature for the Expense Tracker module, enhancing the financial insights section of the WealthVision platform. It integrates multiple charts (Pie, Bar, and Comparative visualizations) to display income and expenses in an interactive and visually appealing way.

Key Features Added

- Pie Chart showing expense distribution by category (e.g., groceries, entertainment, savings).
- Bar Chart comparing daily or monthly income vs. expenses.
- Time Range Filters to view transactions by week, month, or custom range.
- Smart Summary Section that dynamically updates based on selected filters.
- Modern UI Enhancements — improved layout, card design, and chart responsiveness for mobile and desktop.

Technical Implementation

- Integrated charting using Recharts (React-based chart library).
- Added new state and logic for filtering data by time and category.
- Updated CSS for consistent alignment and responsive design.
- Refactored existing Expense Tracker components to include analytics widgets.

Benefits

- Enables users to visualize financial trends and manage spending effectively.
- Adds a data-driven approach to financial tracking.
- Improves the user interface with a clean, dashboard-style experience.
- Aligns with modern fintech dashboard standards.

Github Repository: <https://github.com/contributorsclub/finance-app>

Name: Kaushal Galav

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Before:

WealthVision Invest Cash Retire Resources Rewards Log in Get started

Expense Tracker

Total Income **\$200.00** Total Expenses **\$155.00**

Date	Amount	Category	Transaction Type	Actions
October 9, 2025	\$55.00	Groceries	Gpay	
October 2, 2025	\$100.00	Entertainment	Gpay	
October 1, 2025	\$200.00	Savings	Cash	

After:

WealthVision Invest Cash Retire Resources Rewards Log in Get started

Expense Tracker

Add Expense

Financial Insights

Pie Chart: Expense Categories

Category	Income vs Expense
Entertainment	Income
Groceries	Expense

Time Range: Last Month

Expense by Category

Entertainment (65%)
Groceries (35%)

● Entertainment ● Groceries

Daily Income and Expenses

Oct 1 Oct 2 Oct 9

Income (Green) Expense (Red)

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Pull Request Generated:

The screenshot shows a GitHub pull request page for a repository named 'contributorsclub / finance-app'. The pull request is titled 'Implemented Charts for better visualization #1'. It has 148 reviews and 0 changes. The description states: 'This PR introduces a comprehensive data visualization feature for the Expense Tracker module, enhancing the financial insights section of the WealthVision platform. It integrates multiple charts (Pie, Bar, and Comparative visualizations) to display income and expenses in an interactive and visually appealing way.' The pull request includes sections for Key Features Added, Technical Implementation, and Benefits. On the right side, there are sections for Reviewers, Assignees, Labels, Projects, Milestone, Development, and Notifications.

Pull Request Accepted:

The screenshot shows the same GitHub pull request page after it has been merged. The title now includes '(Merged)' and a note indicating it was merged into the 'main' branch. The pull request details remain the same, showing 148 reviews and 0 changes. The right-hand sidebar still displays the standard GitHub project management fields for Reviewers, Assignees, Labels, Projects, Milestone, Development, and Notifications.

My Github Changes Link: https://github.com/kaushalcracks/finance-app_OS

Conclusion:

This enhancement transforms the Expense Tracker from a basic table view into a powerful visual analytics tool, providing deeper insights into user spending habits and income patterns. It's a major step forward in improving engagement, usability, and financial awareness for users.