



INTRODUCTION

Description:

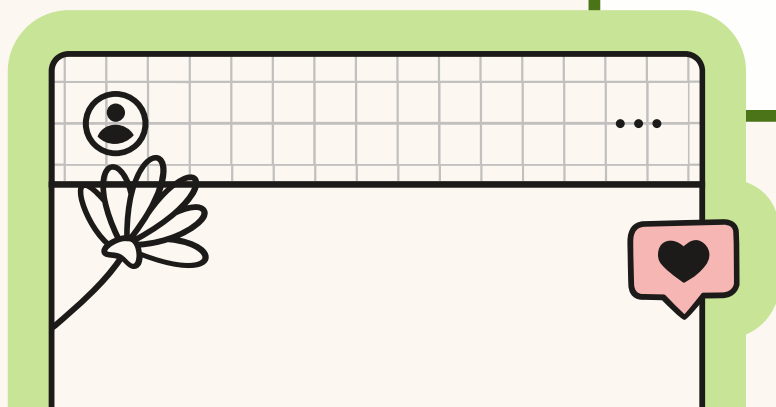
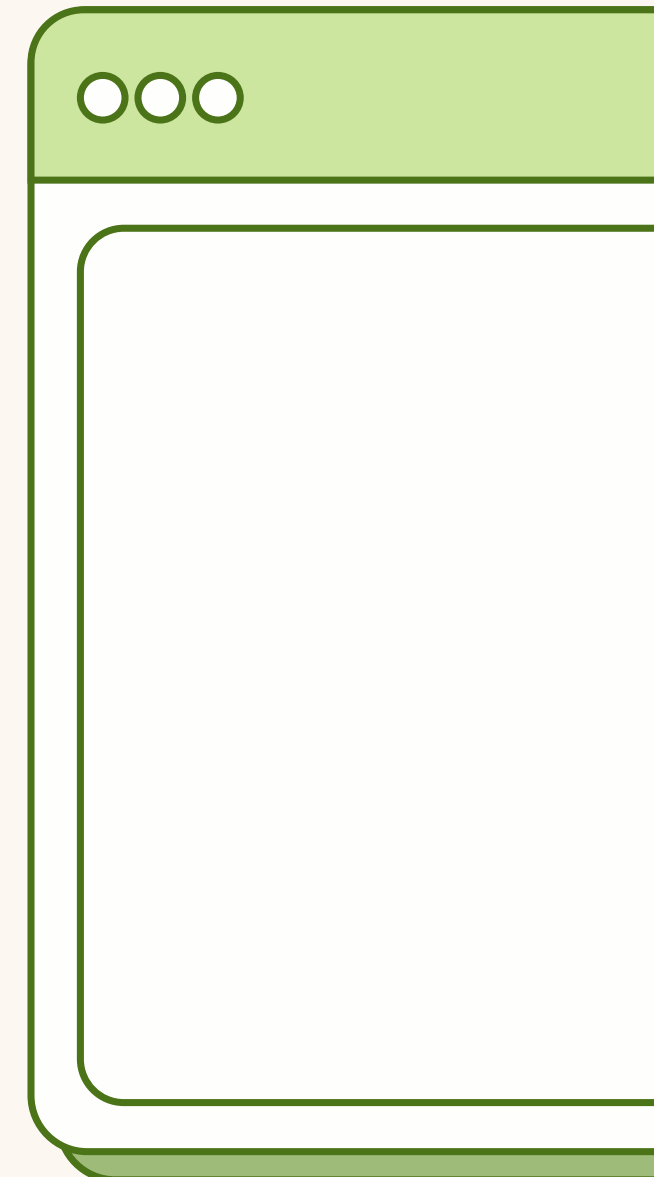
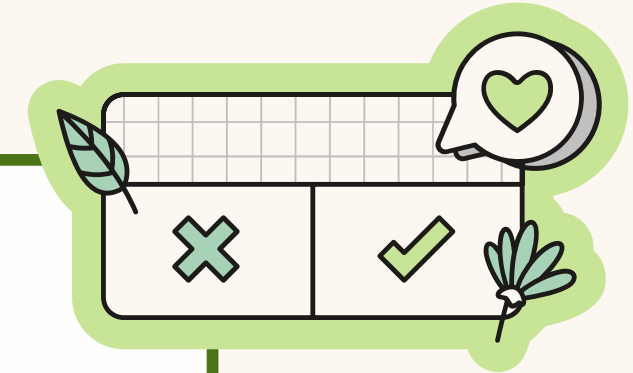
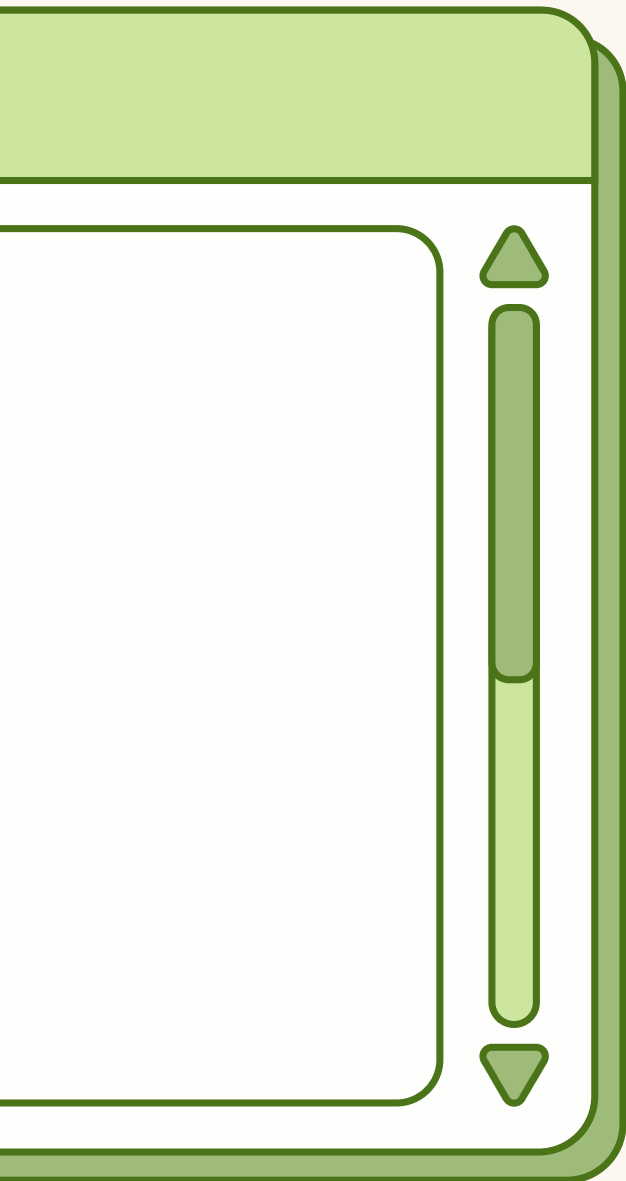
Tesseract is an intelligent personal finance tracker built with React.js, designed to help users categorize, visualize, and analyze their expenses seamlessly.

It includes interactive charts, a transaction history log, and a calendar-based expense view — all with a clean UI and smooth page transitions.



KEY FEATURES

- Real-time expense categorization and visualization
- Interactive Calendar View for date-wise spending
- Transaction History for expense tracking
- Data persistence via localStorage
- Animated and responsive React UI
- Logout and landing page navigation with React Router




LANDING PAGE



[Sign In](#)

[Get Started](#)

 Smart Financial Management

Categorize Your Expenses, Automatically

Track where your money goes with intelligent bill categorization. Get insights, set budgets, and take control of your financial life.

[Start Free Trial](#)

DASHBOARD



Tesseract

Analyses your finances 4-Dimensionally

Total Expenses

₹1410.00

Home

Transaction History

Calendar View

Logout

Log New Expense

Amount (₹)

e.g., 25.50

Category

Food

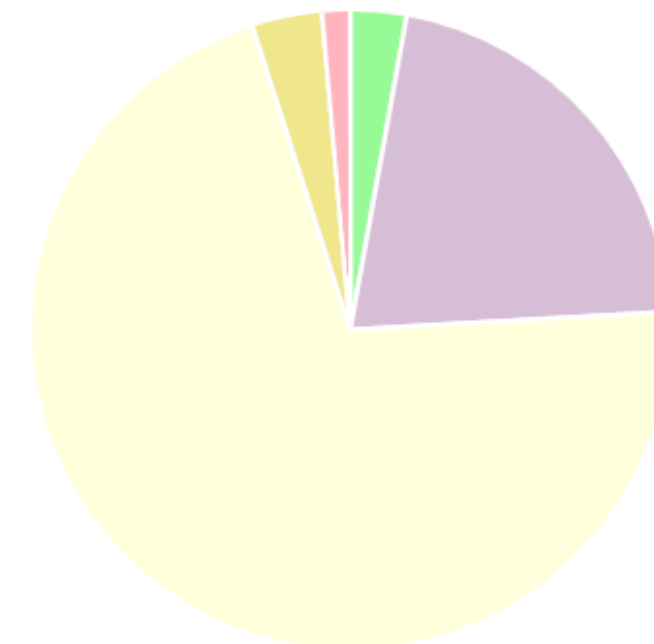
Description (Optional)

e.g., Dinner with friends

Add Expense

Spending Breakdown by Category

Utilities Groceries Travel
Electronics Food



TRANSACTION HISTORY

[← Back to Home](#)

Transaction History

Home

Transaction History

Calendar View

Logout

Summary for October

Total Expenses

₹0.00

Transactions

0

Recent Transactions

CALENDAR VIEW

[← Back to Home](#)

Calendar View

- Home
- Transaction History
- Calendar View
- Logout



October 2025



Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

REACT FEATURES USED

HOOKS

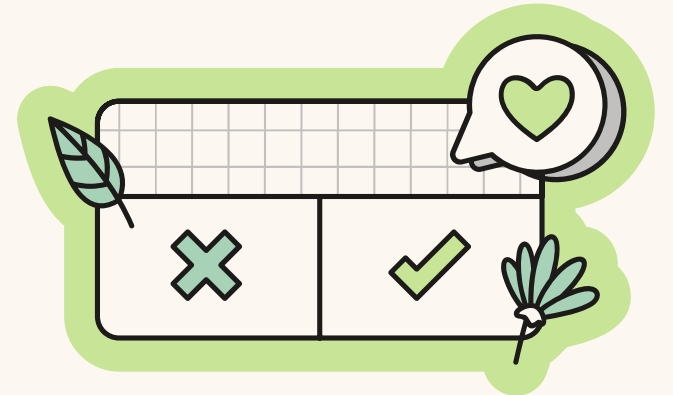
Special React functions (useState, useEffect, etc.) to manage state and lifecycle inside functional components.

- useState
- useEffect

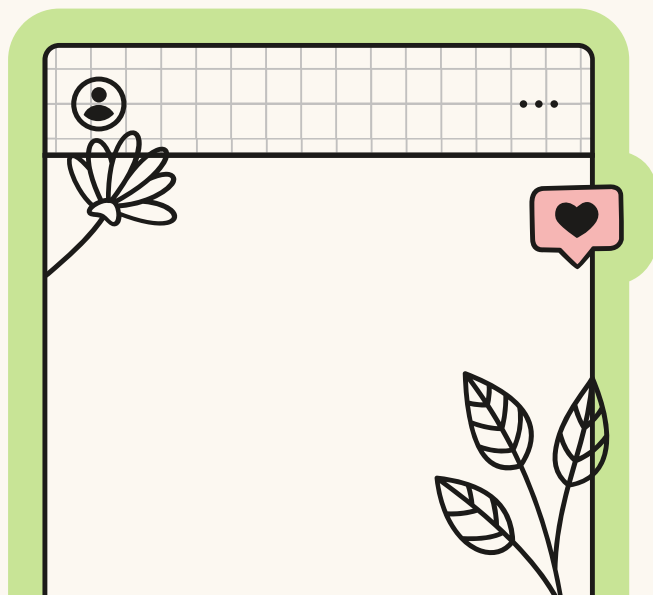
ROUTES

React Router component to define URL paths and map them to specific components in single-page apps.

- useNavigate
- useLocation



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REACT LIBRARIES

CHARTS

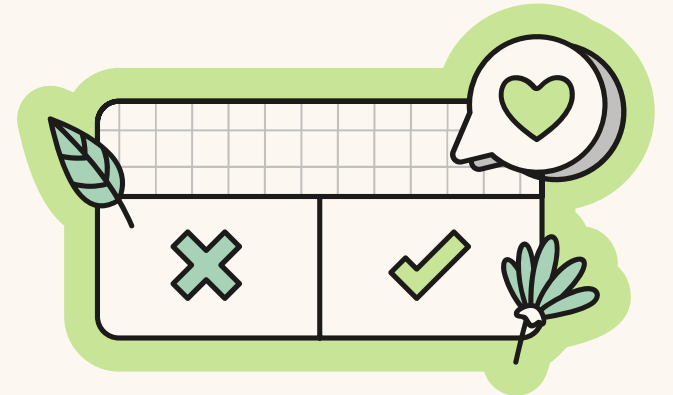
A simple JavaScript library to create responsive charts (line, bar, pie, etc.) using `<canvas>`.

- Dynamic data comes from expenses array, with colors from `categoryColors`.

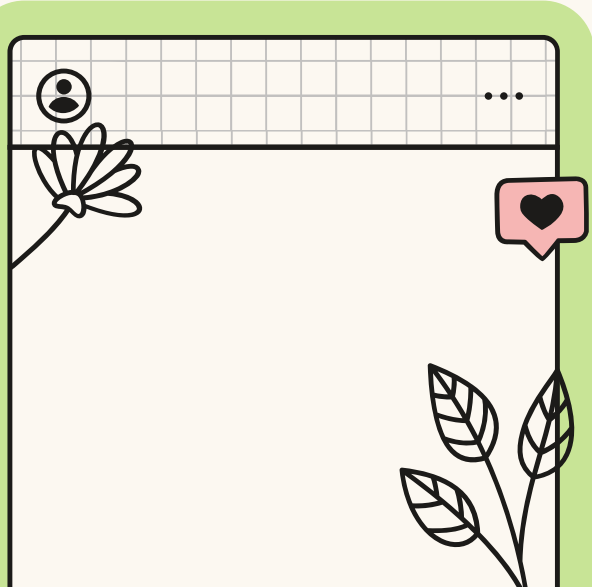
FRAMER MOTION

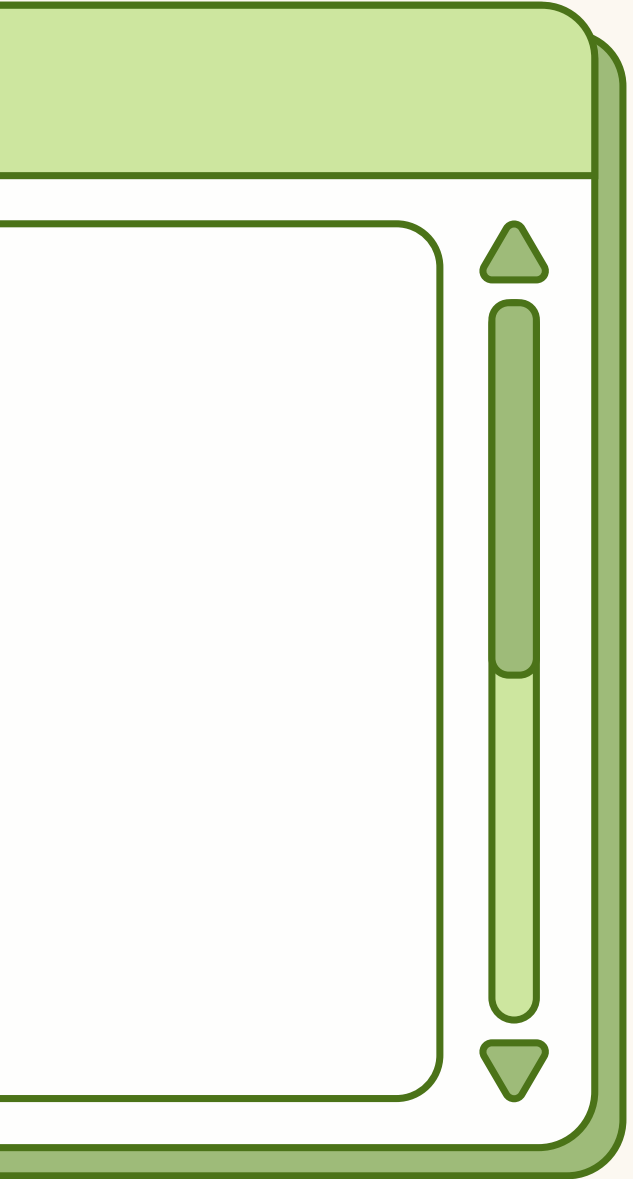
Animation library for React that provides declarative, smooth, and interactive motion for components

- Provides smooth fade and slide transitions when navigating between Landing, Dashboard, Login, and Registration.




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LEARNING OUTCOMES

Technical Learnings

- Gained hands-on experience with React.js component structure and state management.
 - Understood React Router for building multi-page single-page applications.
 - Learned to use Chart.js for real-time data visualization.
 - Practiced CSS customization for UI consistency and responsive layouts.
 - Implemented data persistence using localStorage.
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