Personal Finance Tracker

# Introduction

The Personal Finance Tracker is a web application designed to help users manage their finances by tracking income, expenses and savings. The primary objective of this project is to provide users with an intuitive interface for managing their financial transactions while utilizing advanced React concepts.

# Objectives

* Enable users to add, edit and delete transactions efficiently
* Allow users to categorize transactions as either income or expenses
* Provide a dashboard that displays total income, expenses and savings
* Generate a report based on user transactions

# Technology Used

* React: The core library for building the user interface
* React Router: For navigation between different views in the application
* Context API: To manage global state and share data across components
* CSS Modules: For styling the components in a modular way

# Implementation

## Project Structure

The project follows a component-based structure with separate folders for components, context and styles. Key components include:

* Header: Displays the application title
* Navigation: Provides links to different sections of the page
* Add Transaction: A form for inputting new transactions
* Transaction List: Displays all transactions in a tabular format
* Reports: Shows summarized financial data
* Settings: Allows users to modify application settings

# Challenges Faced

During development, some challenges were encountered:

* State Management: Managing global state effectively using the Context API required careful planning and implementation
* Styling Consistency: Ensuring a visually appealing design across all components took considerable time and iteration.

# Conclusion

The Personal Finance Tracker project successfully meets its objectives by providing a user-friendly interface for managing personal finances. Utilizing advanced React concepts has allowed for a modular and scalable application. Future improvements could include enhanced user authentication, data persistence using a backend and additional features like budget tracking and expense forecasting.