

# Personal Finance Dashboard

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framework Next.js




language TypeScript

css TailwindCSS

## Objectives

The **Personal Finance Dashboard** is designed to help users track and manage their personal finances efficiently. This web application features a user-friendly interface with a sidebar for easy navigation between different pages like Home, News, and Settings.

### Key Features

-  **Interactive Charts:** Visualize financial data using pie charts and other graphical representations.
-  **Data Management:** Simple data management using JSON files for demonstration purposes.
-  **Customizable UI:** TailwindCSS for easy and flexible UI customization.

## Completed Tasks

- **Project Initialization**
  - Set up a Next.js project with TypeScript support.
  - Integrated TailwindCSS for styling.
- **Component Development**
  - Created a **RootLayout** component with a sidebar.
  - Developed a **PieChart** component using Chart.js to display pie charts.
  - Added a **PieCard** component to manage and display the chart data.
- **Routing and Navigation**
  - Implemented client-side routing using **next/link** for seamless navigation.
  - Configured basic pages: Home, News, and Settings.
- **Styling**
  - Applied TailwindCSS for responsive and modern design.
  - Utilized global CSS for consistent styling across the application.

## To-Do List

- **Data Integration**
  - Implement real-time data fetching for financial data.
  - Integrate with an external API for dynamic data updates.

- **Authentication**

- Add user authentication and authorization to secure personal data.

- **Advanced Features**

- Implement budget tracking and expense categorization.
- Develop detailed analytics and reporting features.

- **UI Enhancements**

- Improve mobile responsiveness and accessibility.
- Add animations and transitions for a smoother user experience.

- **Testing**

- Write unit and integration tests for all components.
- Perform end-to-end testing to ensure application stability.

## Installation and Setup

### 1. Clone the Repository

```
git clone https://github.com/yourusername/personal-finance-dashboard.git
cd personal-finance-dashboard
```

### 2. Install Dependencies

```
npm install
```

### 3. Run the Development Server

```
npm run dev
```

### 4. Open in Browser

Open <http://localhost:3000> to see the application.

## Usage

- **Home Page:** View a summary of your financial status.
- **News Page:** Stay updated with the latest financial news.
- **Settings Page:** Customize your dashboard settings.

## Project Structure

```
.
├── public
│   ├── favicon.ico
│   └── ...
├── src
│   ├── app
│   │   ├── components
│   │   │   ├── sidebar.tsx
│   │   │   ├── pieCard.tsx
│   │   │   └── pieGraph.tsx
│   │   ├── page.tsx
│   │   └── globals.css
│   ├── data
│   │   └── data.json
│   └── ...
├── README.md
└── ...
```

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