

# Personal Finance Dashboard

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framework **Next.js**









language **TypeScript**

css **TailwindCSS**

## Objectives

This project is made with the intention of learning to use Next.js, TypeScript, and TailwindCSS. The main goal is to create a personal finance dashboard that allows users to track and manage their finances. The project will include features such as interactive charts, data management, budget tracking, and more.

### 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.
-  **Real-Time Data Fetching:** Implement real-time data fetching for financial data.
-  **Budget Tracking:** Implement budget tracking and expense categorization.
-  **Mobile Responsiveness:** Improve mobile responsiveness and accessibility.
-  **Animations and Transitions:** 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.

## 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.

- **Data Integration**

- Implemented real-time data fetching for financial data.
- Integrated with an external API for dynamic data updates.

- **Authentication**

- Added user authentication and authorization to secure personal data.

- **Advanced Features**

- Implemented budget tracking and expense categorization.
- Developed detailed analytics and reporting features.

- **UI Enhancements**

- Improved mobile responsiveness and accessibility.
- Added animations and transitions for a smoother user experience.

- **Testing**

- Wrote unit and integration tests for all components.
- Performed 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

```

.
├── .eslintrc.json
├── .gitignore
├── .next
│   ├── app-build-manifest.json
│   ├── build-manifest.json
│   ├── cache
│   │   ├── swc
│   │   └── webpack
│   ├── fallback-build-manifest.json
│   ├── react-loadable-manifest.json
│   └── server
│       ├── _error.js
│       ├── app
│       ├── app-paths-manifest.json
│       ├── interception-route-rewrite-manifest.js
│       ├── middleware-build-manifest.js
│       └── middleware-manifest.json
├── next-env.d.ts
├── next.config.mjs
├── package.json
├── postcss.config.mjs
├── public
├── README.md
├── src
│   ├── app
│   │   ├── components
│   │   │   ├── balanceCard.tsx
│   │   │   ├── databaseInterface.tsx
│   │   │   ├── lineGraph.tsx
│   │   │   ├── pieCard.tsx
│   │   │   ├── pieGraph.tsx
│   │   │   ├── sidebar.tsx
│   │   │   └── wideCard.tsx
│   │   ├── context
│   │   ├── layout.tsx
│   │   ├── page.tsx
│   │   └── globals.css
│   ├── data
│   │   └── data.json
│   └── ...
├── tailwind.config.ts
├── tsconfig.json
└── ...

```

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