**Project Overview:**

This application will be a personal finance tracker with features like registering users, logging in, managing expenses/incomes, editing and deleting transactions, displaying charts, and showing the financial overview with a 404 error page.

### ****Dependencies:****

1. **Vite**: Development tool for fast builds and hot module replacement.
2. **React Router DOM**: For routing between different pages (Home, Chart, Error, etc.).
3. **JSON Server**: To simulate a REST API for saving data (expenses, incomes, users).
4. **Bootstrap/ react Boostrap**: For responsive UI and design.
5. **Toastify**: To show success/error notifications.
6. **Axios**: For API requests.
7. **SASS**: For styling and preprocessing.
8. **Redux-Toolkit:** state management.
9. **Charts:** recharts / chart.js react-chartjs-2**.**
10. **Icons:** material icons
11. **React Simple Captcha** : for captcha
12. **React-Data-table-Component** : Tables

### ****Required Pages and Features:****

#### **1. Register Page**

* **Fields**:
  + Name
  + Email
  + Password
* **Actions**:
  + Form submission with validation.
  + Check if the email is already registered using the JSON Server.
  + Display success or error message using Toastify.

#### **2. Login Page**

* **Fields**:
  + Email
  + Password
* **Actions**:
  + Authenticate user via email.
  + Show error message if authentication fails.
  + Redirect to the Home page upon successful login.

#### **3. Add Expense/Income**

* **Fields**:
  + Amount
  + Date
  + Type (Expense/Income/Investment)
  + Category
  + Description
* **Actions**:
  + Submit the form to add a new transaction.
  + Show success or error messages.
  + Store data in JSON Server.
  + Display success/failure notifications via Toastify.

#### **4. Show Expense/Income**

* **Overview**:
  + Show the **total amount** of income/expense.
  + Show the **last 10 transactions** (show details like amount, type, description).
  + Filter by date (this month, last month, etc.).

#### **5. Edit Expense/Income**

* **Fields**:
  + Amount
  + Date
  + Type
  + Category
  + Description
  + Edit Date
* **Actions**:
  + A modal or popup will appear with the pre-filled fields for the transaction you want to edit.
  + Update the data in the JSON Server.
  + Show a success message after saving the changes.

#### **6. Delete Expense/Income**

* **Action**:
  + When clicking the "Delete" button, remove the specific transaction from the database.
  + Confirmation dialog before deletion.
  + Show success/failure notification using Toastify.

#### **7. Home Page**

* **Boxes**:
  + **This Month’s Income**
  + **This Month’s Expense**
  + **Total Income**
  + **Total Expense**
* **Last 10 Transactions**: Show the recent transactions (Amount, Type, Date).
* **Chart**:
  + Display a bar chart for **Expenses** and **Income**.
  + Filter options: 1 Day, 7 Days, 30 Days, Last Year, All time.

#### **8. Chart Page**

* **Chart**:
  + Pie or bar chart for **Category-wise Expenses/Income**.
  + Filter options: 1 Day, 7 Days, 30 Days, Last Year, All time.

#### **9. Error Page (404)**

* Display a generic 404 page with a message: **"Page Not Found"**.

### ****Features to Add:****

* **Authentication**: Manage user authentication states (e.g., show login/register page if not authenticated).
* **Transaction History**: Include the ability to view detailed transaction history, including income, expenses, and investments.
* **Responsive UI**: Ensure the application is mobile-friendly using Bootstrap grid system.
* **Charts**: Use a chart library like Chart.js or Recharts to visualize income/expense data.
* **Filter Transactions**: Implement filtering by date or type (Expense/Income/Investment).
* **Date Handling**: Use libraries like date-fns or moment.js to handle and format dates.

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