Title of the Project : Finance Tracker Web Application

Name of the Project : Fine-Track

Statement about the Problem:
Managing personal finances is a crucial task that can be challenging without proper tools. Many individuals struggle to keep track of their expenses, income, and overall financial status, leading to potential financial mismanagement. A reliable solution is needed to simplify this process, allowing users to record their transactions and monitor their financial health effectively.

Why is the Particular Topic Chosen?
The topic of finance tracking is chosen due to its relevance in today's fast-paced world, where financial literacy and management are more important than ever. A web application that helps users manage their finances can significantly improve their ability to make informed financial decisions, leading to better financial outcomes.

management is important for various reasons such as:

- Helps organizations in financial planning
- Assists organizations in the planning and acquisition of funds
- Helps organizations in effectively utilizing and allocating the funds received or acquired
- Assists organizations in making critical financial decisions
- Helps in improving the profitability of organizations
- Increases the overall value of firms or organizations
- Provides economic stability
- Encourages employees to save money, which helps them in personal financial planning

Objective and Scope of the Project:
The primary objective of the Finance Tracker Web Application is to provide users with an easy-to-use platform where they can log their transactions, track their income and expenses, and analyze their financial data to determine profit or loss. The scope includes user authentication (login/logout features) and secure database connectivity to store and retrieve user data efficiently. The application aims to empower users to gain insights into their spending habits and make data-driven decisions to enhance their financial stability.

Methodology:

- **Landing Page :** A common landing page is created to provide an overview of the project, it helps users to know about the project and its importance.
- **User Authentication:** Implementing a secure login/logout feature to manage user sessions. (E-mail, phone number, username, password)
- **Database Connectivity:** Utilizing a Mongo DB database to store and manage user data, including transaction records, and personal data like email, username, passwords for authentication.
- **Transaction Input:** Users can input details of their transactions, including income and expenses, and select the categories for their incomes and expenses, with a date and amount of transaction.
- **Profit and Loss Calculation:** The system automatically calculates profit or loss based on the user's transaction data.
- **Detailed Analysis :** the user's dashboard provides a detailed analysis graph to manage and analyze their transactional records, it can be in the form of bar graphs, pie charts, and category wise distribution graph, which helps users to able to see the each sections of categories in which they expense and income sources.
- **User Profile Section :** the profile page is provided for users to edit any changes in their profile, like : - name, email, phone number, update passwords.
- **User Interface:** A simple and intuitive interface is designed for easy navigation and data input.

- **User Dashboard :** the web app provides a personal user dashboard which includes user profile photo, income, expenses, total, profit/loss in transactions, detailed transaction

Upcoming Features :

- **AI predictions :** Based on the transactions of the users the Fine-track project will also provide the predictions through artificial intelligence in future so that it is easy for users to interact with web app.

Hardware & Software to be Used:

- **Tech-Stack :** MERN (Mongodb, Express, React, Node)
- **Hardware:** Standard personal computer or server with internet access.
- **Software:**
    - Front-end: HTML, CSS, JavaScript, React
    - Back-end: Node.js, Express.js, Mongo db for database management
    - Development Environment: Visual Studio Code

Testing Technologies Used:

- Unit Testing for individual modules.
- Integration Testing to ensure the database and authentication systems work seamlessly together.
- User Acceptance Testing (UAT) to ensure the application meets user requirements.

What Contribution Would the Project Make?

The Finance Tracker Web Application will contribute by offering users a systematic approach to managing their finances. It will provide valuable insights into spending habits, aid in budgeting, and help users achieve their financial goals. By leveraging technology to track finances, users will be better equipped to handle their monetary resources efficiently.