Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	26 October 2023
Team ID	SI-GuidedProject-587265-1696856877
Project Name	Money Matters: A personal financial management app
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
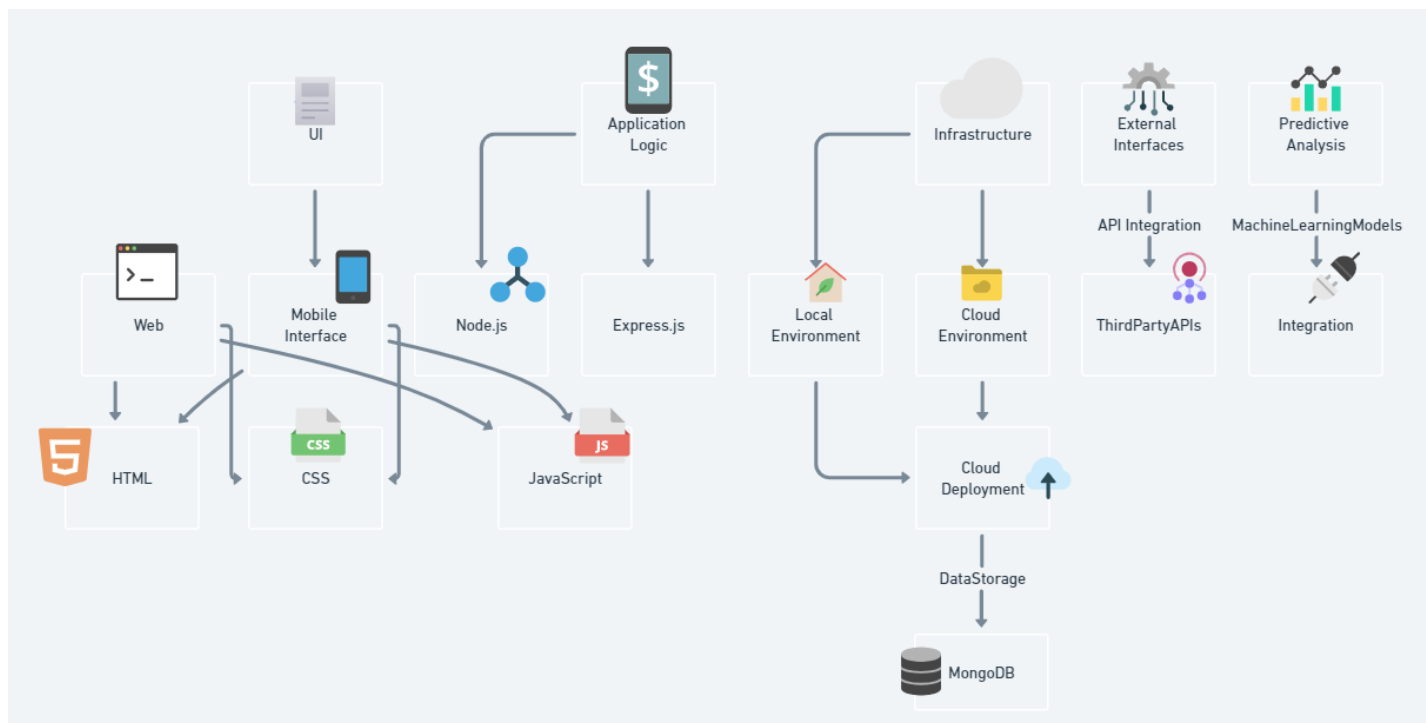
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User-facing elements for web and mobile interaction	HTML, CSS, JavaScript, React Native
2.	User Registration	Logic and functionality for user registration	Node.js, Express, MongoDB
3.	User Authentication	Authentication and security features	JWT (JSON Web Tokens), OAuth2
4.	Expense Tracking	Features for tracking and categorizing expenses	React Native, Redux, Firebase
5.	Budget Management	Tools for setting and managing budgets	React, Node.js, MongoDB
6.	Financial Dashboard	Dashboard for providing financial summaries and insights	React, D3.js, Chart.js
7.	Data Storage (Local)	Local data storage for offline functionality	SQLite, AsyncStorage (for mobile)
8.	Cloud Data Sync	Synchronization of data with cloud servers	Firebase, AWS, Google Cloud
9.	External APIs (e.g., Financial Data)	Integration with external APIs for financial data	RESTful APIs, JSON
10.	Notification Services	Push notifications and alerts for financial updates	Firebase Cloud Messaging (FCM)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Utilization of open-source frameworks in the app	React Native, Node.js, Express, etc.
2.	Security Implementations	Implementation of security measures and access controls	Encryption, JWT, OAuth2, etc.
3.	Scalable Architecture	Design considerations for the app's scalability	Microservices, Load Balancing, CDN
4.	Availability	Measures taken to ensure high availability of the app	Load Balancers, Redundancy, Failover
5.	Performance	Design considerations for optimal app performance	Caching, Content Delivery Networks (CDN), etc.