**Project Overview**

**Project Name:**  
Chnouwa Srafet

**Project Description:**  
"Chnouwa Srafet" is an intuitive application designed to help users in Tunisia manage their finances more effectively. The app offers tools for tracking expenses, analyzing spending habits, and providing personalized financial tips and strategies. By generating detailed dashboards and graphs, "Chnouwa Srafet" helps users understand where their money is going and how to improve their budgeting practices. The ultimate goal is to empower users to make informed financial decisions, save more money, and align their spending with their lifestyle and goals.

**Objectives :**

* Provide a user-friendly platform for tracking daily expenses.
* Generate insightful dashboards and graphs to visualize spending patterns.
* Offer personalized financial advice tailored to the Tunisian context.
* Suggest effective financial strategies aligned with users' goals and lifestyles.
* Help users save money and improve their financial well-being.

**Technologies Used**

**Programming Languages:**

* **JavaScript:** For front-end development to create a responsive user interface.
* **Python:** For backend development and implementing data analysis algorithms.
* **SQL:** For managing and querying the database.

**Frameworks and Libraries:**

* **React:** For building the user interface with a focus on modular components and efficient rendering.
* **Node.js/Django:** For backend development, handling server-side logic, and API integration.
* **Pandas/NumPy:** For data manipulation and analysis in Python.
* **Chart.js:** For generating dynamic and interactive graphs and dashboards.

**Tools:**

* **Git/GitHub:** For version control and collaboration among the development team.
* **Docker:** For containerizing the application, ensuring consistent deployment across environments.
* **GitHub Actions:** For continuous integration and deployment (CI/CD) to automate testing and deployment processes.
* **Postman:** For API testing and documentation.

**Database:**

* **MySQL:** As the relational database to store user data, transaction history, and other critical information.
* **SQLite:** For local development and testing environments.

**Cloud Services:**

* **AWS:** For hosting the application, managing databases, and scaling the infrastructure as needed.
* **Firebase:** For real-time database and user authentication.

**Security:**

* **OAuth2.0/JWT:** For user authentication and secure access to the application.
* **SSL/TLS:** For ensuring data encryption and secure communication between the client and server.