

Full Stack Development with MERN

Project Documentation format

1. Introduction

- Project Title: Shop Smart: Your Digital Grocery Store
- Team Members: List as follows
- Team Leader: Battula Hareesh
- Team Member: Gunda Leela Madhav
 - Team Member: Allanki Venkata Sai Adithya
- Team Member: Padam Venkatesh

2. Project Overview

- **Purpose:** The purpose of the ShopSmart project is to meet consumer demand for online groceries by creating a convenient, user-centric digital marketplace. This will establish a scalable and secure new revenue stream for the business, built on a modern technology platform to support future growth.

- **Features:** Future involves launching a native mobile app, introducing AI-powered personalization and loyalty programs, and integrating advanced inventory and delivery logistics.

3. Architecture

- **Frontend:** Describe the frontend by using HTML, CSS, Java script.
- **Backend:** Outline the backend architecture using Node.js .
- **Database:** Detail the database schema and interactions with Supa Base.

4. Setup Instructions

- **Prerequisites:** List tools like react.js, Supa base ,Java script.
- **Installation:** Step-by-step guide to clone, install dependencies, and set up the environment configuration.

5. Folder Structure

- **Client:** Describe the structure of the React frontend.
- **Server:** Explain the organization of the Node.js backend.

6. Running the Application

- Provide commands to start the frontend and backend servers locally.
 - o **Frontend:** HTML ,CSS, Java script.
 - o **Backend:** Supa Base in the server directory.

7. API Documentation

- Document all endpoints exposed by the backend.
- Include request methods, parameters, and example responses.

8. Authentication

- Secure handling of API keys, User sessions, and database access with .env and IAM principles

9. User Interface

- <https://drive.google.com/file/d/1BW0SnOMstlpKY0AJ0pl3QHgjIZJCcqCP/view?usp=sharing>

10. Testing

- Testing methods are used like (Unit Testing, Integration Testing)

11. Screenshots or Demo

- <https://drive.google.com/file/d/1BW0SnOMstlpKY0AJ0pl3QHgjIZJCcqCP/view?usp=sharing>

12. Known Issues

- Known issues include the technical complexity of managing a microservices architecture and critical dependencies on third-party services and real-world delivery logistics.

13. Future Enhancements

- Future enhancements include launching a native mobile app, introducing AI-powered personalization and loyalty programs, and integrating advanced inventory and delivery logistics.