

Project Design Phase

Proposed Solution Template

Date	19 February 2026
Team ID	LTVIP2026TMIDS81333
Project Name	shopsmart: your digital grocery store experience
Maximum Marks	2 Marks

Proposed Solution:

Project team shall fill the following information in the proposed solution.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	In today's digital era, many small and local grocery stores still operate offline without an online platform to sell their products. Customers must physically visit stores to purchase daily essentials, which is time-consuming and sometimes inconvenient. There is also a lack of real-time product availability information, price comparison, and doorstep delivery options for customers. This creates a gap between traditional retail stores and modern digital shopping experiences. Therefore, there is a need for a digital solution that connects local grocery stores with customers in a simple and efficient way.
1.	Idea / Solution description	ShopSmart is a MERN stack web application developed using MongoDB, Express.js, React.js, and Node.js. It allows users to browse grocery products, add items to cart, and place orders online. The system includes secure login authentication and an admin dashboard to manage products and orders. It ensures smooth communication between frontend and backend using REST APIs. The platform provides a simple and user-friendly shopping experience.
1.	Novelty / Uniqueness	ShopSmart focuses mainly on supporting small local grocery stores rather than large supermarkets. It offers a simple interface, real-time stock updates, and easy product management. The platform is affordable and customizable for small businesses. Its lightweight design and secure authentication system make it efficient and reliable. This gives it an advantage over traditional offline systems.
1.	Social Impact / Customer Satisfaction	The project helps local retailers move towards digital transformation. Customers can order groceries from home, saving time and reducing effort. It reduces crowding in stores and improves convenience. The platform increases accessibility and improves customer satisfaction. Overall, it supports both businesses and customers in a positive way.
1.	Business Model (Revenue Model)	The platform generates revenue through commission on each order, subscription plans for store owners, and delivery charges. It may also include advertisements for featured products. This multi-revenue approach ensures financial stability. The model is simple and sustainable for long-term growth.
1.	Scalability of the Solution	ShopSmart is built using modern web technologies, making it scalable and flexible. The platform can be expanded to different cities and support more users over time. Cloud hosting allows handling increased traffic efficiently. In the future, features like mobile app integration and AI recommendations can be added. This ensures long-term growth potential.

