

Project Design Phase
Proposed Solution Template

Date	15 February 2026
Team ID	LTVIP2026TMIDS79115
Project Name	Cafeteria Menu Display
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Cafeterias currently rely on manual paper menus that require daily rewriting, leading to inaccurate information, inability to communicate sold-out items, wasted printing costs, and customer dissatisfaction due to outdated pricing and availability.
2.	Idea / Solution description	A digital web-based Cafeteria Menu Display System built with Flask and MySQL that allows staff to instantly update menu items, prices, and availability through a secure admin panel, with changes automatically reflected on a customer-facing display screen.
3.	Novelty / Uniqueness	Unlike static paper boards, the system features auto-refresh functionality every 5 minutes, dietary icons for special needs, category-based filtering, and out-of-stock indicators, all managed through an intuitive admin interface requiring no technical expertise.
4.	Social Impact / Customer Satisfaction	Reduces staff workload and stress from manual menu updates, eliminates customer confusion over unavailable items, helps individuals with dietary restrictions make informed choices, and creates a modern, professional cafeteria environment.
5.	Business Model (Revenue Model)	One-time setup fee for hardware and software installation combined with a monthly subscription for maintenance, updates, and cloud backup, targeting college cafeterias, corporate canteens, and restaurant chains.
6.	Scalability of the Solution	The modular architecture allows for easy expansion to include mobile app ordering, digital payments integration, inventory management, sales analytics, and multi-location support across multiple cafeterias from a central admin panel.