

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

Date	29 June 2025
Team ID	LTVIP2025TMID28573
Project Name	Cafeteria Menu Display
Maximum Marks	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Authentication & Role Management	User Login Functionality Password Management Session Management
FR-2	Menu Input & Editing	Add New Menu Item Edit Existing Menu Item Delete Menu Item
FR-3	Scheduling Menus	Date & Time Selection Recurring Schedules Meal Time Association
FR-4	Display on Digital Signage	Real-Time Content Sync Multi-Screen Support Responsive Display Layout
FR-5	Preview Feature	Live Preview Button Screen Size Simulation Meal Time Preview
FR-6	Menu Versioning / Audit Trail	Change History Logging Version Tracking view Change History
FR-7	Multilingual Support (optional)	Language Selection in Admin Panel Localized Display Output Fallback Language
FR-8	Responsive Content Rendering	Auto-Scaling Layout Components Flexible Grid & Layout System Adaptive Font Sizing
FR-9	Error Messages and Notifications	User Input Validation Errors Authentication & Authorization Errors Network & Connectivity Alerts

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Performance</b>	<ul style="list-style-type: none"><li>• Menu updates must reflect on all screens within 30 seconds of being published.</li></ul>
NFR-2	<b>Security</b>	<ul style="list-style-type: none"><li>• All user data and menu content must be transmitted over HTTPS.</li><li>• Role-based access must prevent unauthorized users from editing or scheduling content.</li></ul>
NFR-3	<b>Reliability</b>	<ul style="list-style-type: none"><li>• The system must have 99.9% uptime during operational hours (6 AM – 9 PM)..</li><li>• Scheduled menus must still display even if the editor portal is temporarily down.</li></ul>
NFR-4	<b>Usability</b>	<ul style="list-style-type: none"><li>• The interface should be intuitive and require no more than 1 hour of training.</li><li>• Editors should be able to update a full meal menu in under 10 minutes.</li></ul>
NFR-5	<b>Accessibility</b>	<ul style="list-style-type: none"><li>• Menu displays must be readable from at least 6 feet away and comply with basic ADA guidelines</li></ul>
NFR-6	<b>Scalability</b>	<ul style="list-style-type: none"><li>• The system should support expansion to additional cafeterias or kiosks without redesign.</li></ul>
NFR-7	<b>Maintainability</b>	<ul style="list-style-type: none"><li>• System should allow for content or display rules to be updated without full redeployment.</li><li>• Logs and system status should be viewable by IT support staff.</li></ul>

