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

Date	19 February 2026
Team ID	LTVIP2026TMIDS87679
Project Name	Steamy Pot – Smart Food Delivery Platform
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 Registration	Registration through Form (Name, Email, Password)
		Registration through Gmail OAuth
		Registration through LinkedIn OAuth
		Role Selection (User / Restaurant / Driver)
FR-2	User Confirmation	Confirmation via Email Verification Link
		Confirmation via OTP
		Account Activation after Verification
FR-3	Authentication & Login	Login using Email & Password
		JWT-based Authentication
		Role-Based Access Control
		Forgot Password & Reset Password
FR-4	Restaurant Management	Restaurant Registration (Admin Approval Required)
		Add / Edit / Delete Menu Items
		Real-Time Menu Updates
FR-5	Order Management	Add Items to Cart
		Persistent Cart per User
		Place Order
		Generate Unique Order ID
		Order Lifecycle Tracking
FR-6	Delivery Management	Driver Registration
		Online / Offline Availability
		Intelligent Driver Assignment
		Delivery Status Update
FR-7	Social-Based Recommendation	Location-Based Filtering
		Contact-Based Recommendation (With Consent)
		Aggregated Rating Analysis
FR-8	Admin Management	Approve / Reject Restaurants
		Manage Users & Drivers
		Monitor Orders & Analytics

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The system shall provide intuitive navigation, responsive UI, and minimal learning curve.
NFR-2	Security	JWT authentication, password hashing, HTTPS encryption, role-based access control, and privacy compliance.
NFR-3	Reliability	Ensure data consistency and accurate order processing with robust state management.
NFR-4	Performance	API response time ≤ 3 seconds with optimized database indexing.
NFR-5	Availability	Ensure high uptime (≥ 99%) with proper error handling and deployment strategies.
NFR-6	Scalability	Support horizontal scaling of backend services and database growth under increasing load.