

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

Date	20 February 2026
Team ID	TVIP2026TMIDS41611
Project Name	OrderOnTheGo: Your On-Demand Food Ordering Solution
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 (email, password, confirm password)
FR-2	User Confirmation	Confirmation via Email (verification link/code)
FR-3	User Confirmation	Confirmation via OTP (SMS/email OTP verification)
FR-4	Authentication & Access Control	Login through email and password
FR-5	Authentication & Access Control	Role-based access for Customer, Restaurant, Staff, Admin
FR-6	Authentication & Access Control	JWT-based session/token management
FR-7	Ordering & Checkout	Browse restaurants and foods, search/filter menu
FR-8	Ordering & Checkout	Add/update/remove cart items
FR-9	Ordering & Checkout	Place order and track status lifecycle
FR-10	Ordering & Checkout	Online payment processing and payment verification

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Mobile-first and responsive UI; simple registration, login, cart, checkout, and order tracking flows.
NFR-2	Security	JWT authentication, role-based authorization, secure password hashing, protected APIs, and validated inputs.
NFR-3	Reliability	Stable order flow with proper error handling, transaction consistency for orders/payments, and retry-safe operations.
NFR-4	Performance	Fast API response for core flows (auth, menu listing, cart, order placement) and efficient pagination/filtering for admin modules.
NFR-5	Availability	Application should be available continuously for customer ordering with graceful handling of service interruptions.
NFR-6	Scalability	Support growth in users, restaurants, orders, and analytics through horizontally scalable backend/API design.