

Project Design Phase-II Technology Stack (Architecture & Stack)

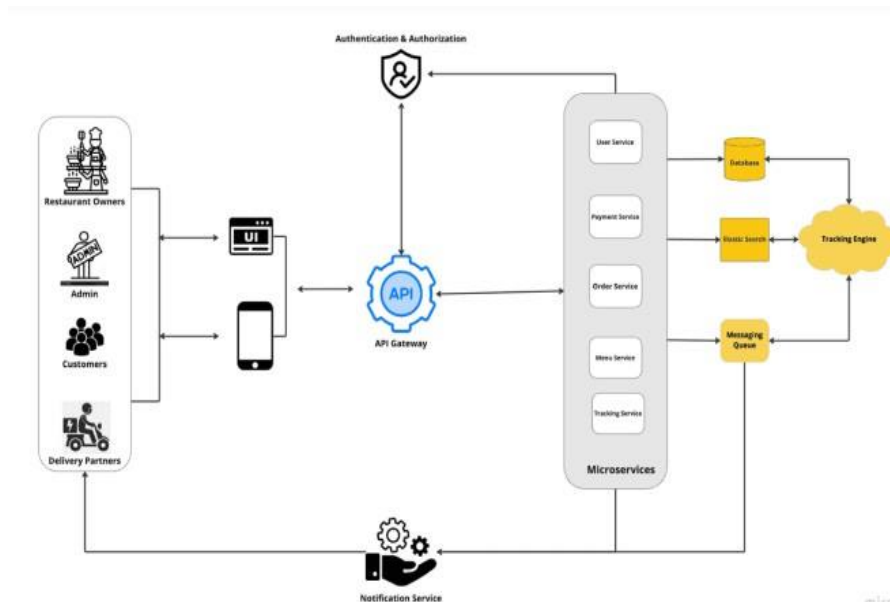
Date	28 June 2025
Team ID	LTVIP2025TMID31201
Project Name	Cafeteria menu display
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Order processing during pandemics for offline mode

Reference: <https://pratapsharma.com.np/architecture-of-food-delivery-app/>



Guidelines:

A robust technology stack for a cafeteria menu display should prioritize reliability, ease of use, and scalability. A suitable stack includes a content management system (CMS) for easy updates, a digital signage player, and high resolution displays.

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Cafeteria Menu Table	Stores meals, dates, descriptions, meal types.	Custom Table in ServiceNow
2.	Fields	eg:Date,meal type,menu items,calorie	servicenow table fields
3.	Data Model	ServiceNow Data Dictionary	Field types, choice lists, references
4.	Form Validations	Validate inputs (e.g., required fields, future dates only)	UI Policies, Client Scripts
5.	Data Processing	Server-side querying and data logic	GlideRecord, Script Includes
6.	Auto-Populate/Expire	Automate weekly updates or cleanup of old menus	Scheduled Jobs, Business Rules.
7.	Access Control	Secure who can view/edit the menu	ACLs (Access Control Rules).
8.	Admin Interface	Internal ServiceNow UI for cafeteria staff	Form Layout & List View
9.	User Display	For employees to view the menu via portal	Service Portal Widget (AngularJS)
10.	UI Page	Jelly / UI Script / HTML	Custom display page inside classic UI

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Modular & Scoped	Self-contained, upgrade-safe application within ServiceNow	Scoped Application, Studio IDE
2.	Role-Based Accessibility	Different access for Admins and Employees	Roles, ACLs, UI Policies
3.	Date-Driven Functionality	Menus linked to specific dates, with filtering	Date fields, List Filters, GlideRecord
4.	User Interfaces	UI for Admins (form/list) and Users (Service Portal or Mobile)	Form View, List View, Service Portal Widget
5.	Secure by Design	Prevent unauthorized viewing/editing of menus	ACL Rules, Field-level Security, UI Policies

References:

https://nento.com/restaurant-menu-display/?source=SEO&keyword=restaurant_menu_display

<https://pratapsharma.com.np/architecture-of-food-delivery-app/>