

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

Date	27 October 2023
Team ID	PNT2022TMID 591068
Project Name	Project – Food Delivery App (Snack Squad)
Maximum Marks	4 Marks

Technical Architecture:

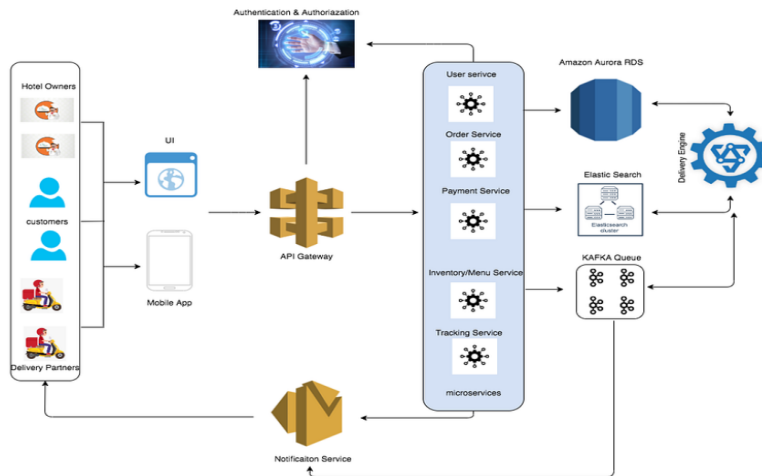


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Home Page, Restaurants ordering.	JetPack Compose
2.	Login Authentication	It user email and password authentication for users.	FireBase
3.	Sign up for new Users	It uses data base to store information of new users.	FireBase
4.	Add to Cart	User can add items to cart.	FireBase
5.	Database	Data Type, Configurations etc.	FireBase
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flutter	Dart
2.	Security Implementations	Firebase firewall, authentication modules	sha1 and sha 256
3.	Scalable Architecture	The architecture is designed to be scalable, allowing the app to handle increased load by adding more resources as needed. This may involve microservices, containerization, or cloud-based scaling solutions.	Docker, Kubernetes, or cloud services like AWS, Azure, or GCP

S.No	Characteristics	Description	Technology
4.	Availability	Ensuring the app is available 24/7, minimizing downtime through redundancy, failover mechanisms, and load balancing.	Load balancers, redundant servers, auto-scaling
5.	Performance	Optimizing the app's speed and responsiveness by efficient coding, database tuning, and caching mechanisms.	Caching technologies, query optimization, performance monitoring tools