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

Date	03 November 2023
Team ID	591302
Project Name	Indian Food EDA
Maximum Marks	4 Marks

Technical Architecture:

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

Guidelines:

1. Include all the   processes   (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI, Mobile App, Chatbot	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Used to follow the algorithm in functioning of app and doing the steps from user logging in to ordering food	Java / Python
3.	Application Logic-2	Used to include a call support function	IBM Watson STT service
4.	Application Logic-3	Used to solve the basic problems of a customer to solve the basic problems of a customer.	IBM Watson Assistant
5.	Database	Integer, char, double int	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	AWS, Azure
7.	File Storage	Type of dishes, quantity, prep time & ingredients	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	To know the restaurants in nearest areas	Google maps,etc.
9.	External API-2	To know the kind of food we get and customer review	Trip advisor, etc.
10.	Machine Learning Model	To feed data that prefers the likes of the consumer	cookies, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Food available in locality Cloud Server Configuration : User id, password	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Reporting/analytics	Salesforce cloud

S.No	Characteristics	Description	Technology
2.	Security Implementations	Firewalls	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	3 tier infrastructure	
S.No	**Characteristics**	**Description**	**Technology**
4.	Availability	Distributed servers used	
5.	Performance	number of requests per sec, use of Cache, use of CDN's	