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

Date	03 November2022
Team ID	PNT2022TMID20841
Project Name	Demand Est-AI Powdered Food Demand Forecaster
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://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/

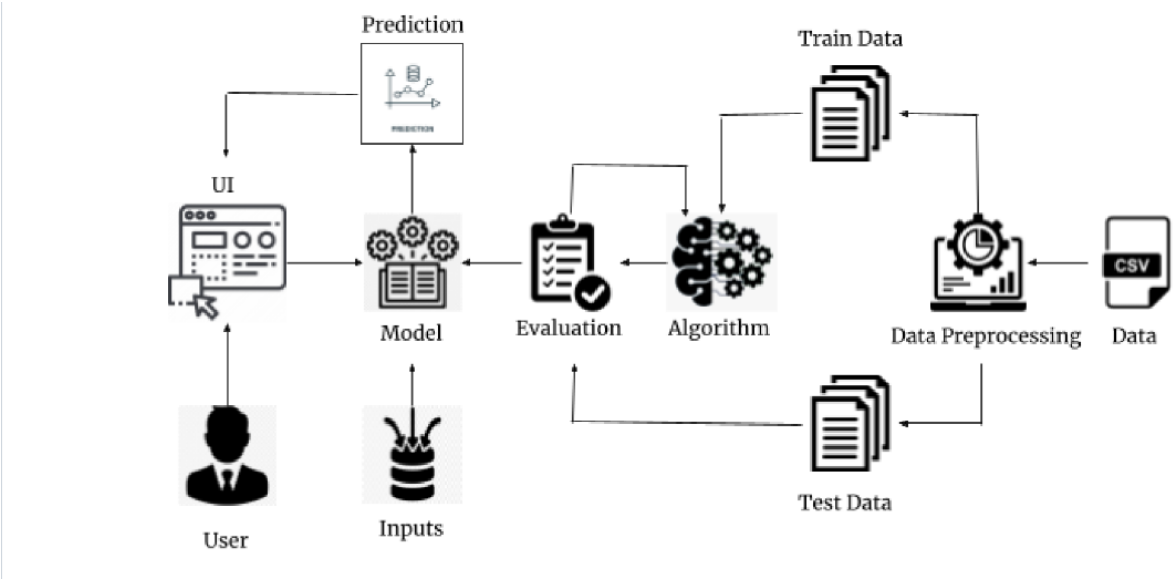


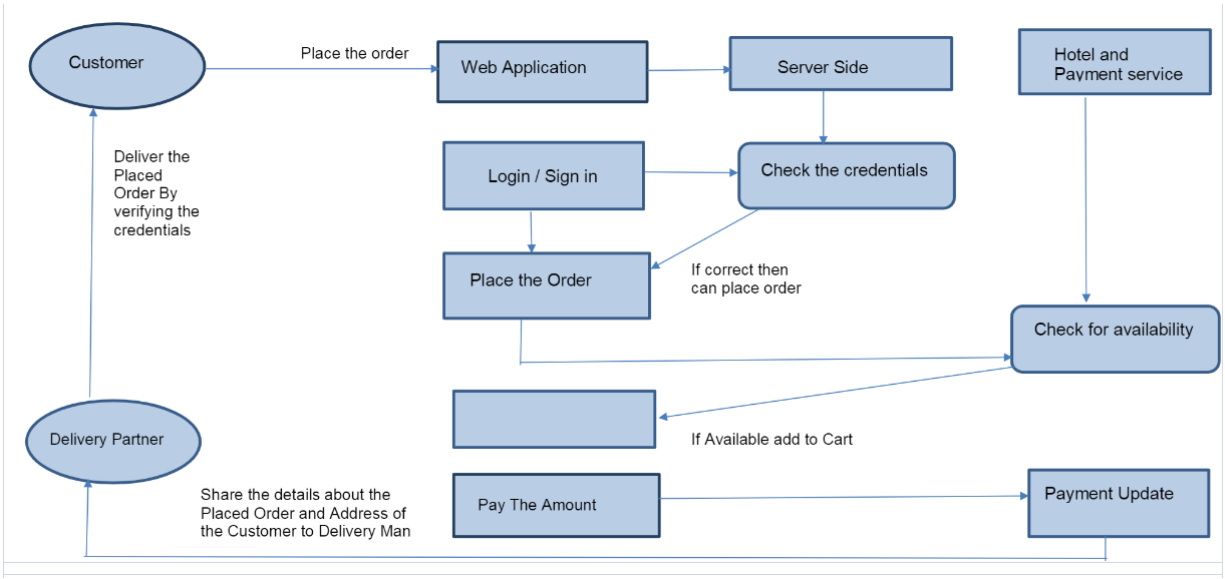
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	Customer	Registration can be done using only online mode and through Web app	HTML, CSS, JavaScript .

2.	Restaurant	It includes all the goods and services that the restaurant provides.	Online transactions
3.	Geolocation	Used for reaching the destination	Google map,user address
4.	Platform owner	Mainly waits for the delivery of food	Mobile phones and online websites
5.	Database Analytics	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	User information.	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Amazon s3 bucket	Storage with data availability	HTTP interface
9.	Cloudwatch alarm	Purpose of External API used in the application	Notification services.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks Google chrome, online websites	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations Authentications through OTP.	List all the security / access controls implemented, use of firewalls etc.	Through mobile phones.
3.	Scalable Architecture Based on quality. Based on taste.	Justify the scalability of architecture (3 – tier, Micro-services)	Quality assurance Quality control.
4.	Availability Available through online	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Online system
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN’s) etc.	Quality assurance Quality control.


Customer
Place the order
Web Application
Server Side
Hotel and
Payment service
Deliver the
Placed
Order By
verifying the
credentials
Login / Sign in
Check the credentials
Place the Order
If correct then
can place order
Check for availability
Delivery Partner
If Available add to Cart
Share the details about the
Placed Order and Address of
the Customer to Delivery Man
Pay The Amount
Payment Update