PROJECT DESIGN PHASE – II

Technology Stack (Architecture & Stack)

Date	03 november 2022
Team ID	PNT2022TMID45520
Project Name	Project – AI Powered Food Demand Forecasting

DemandEst - AI powered Food Demand Forecaster
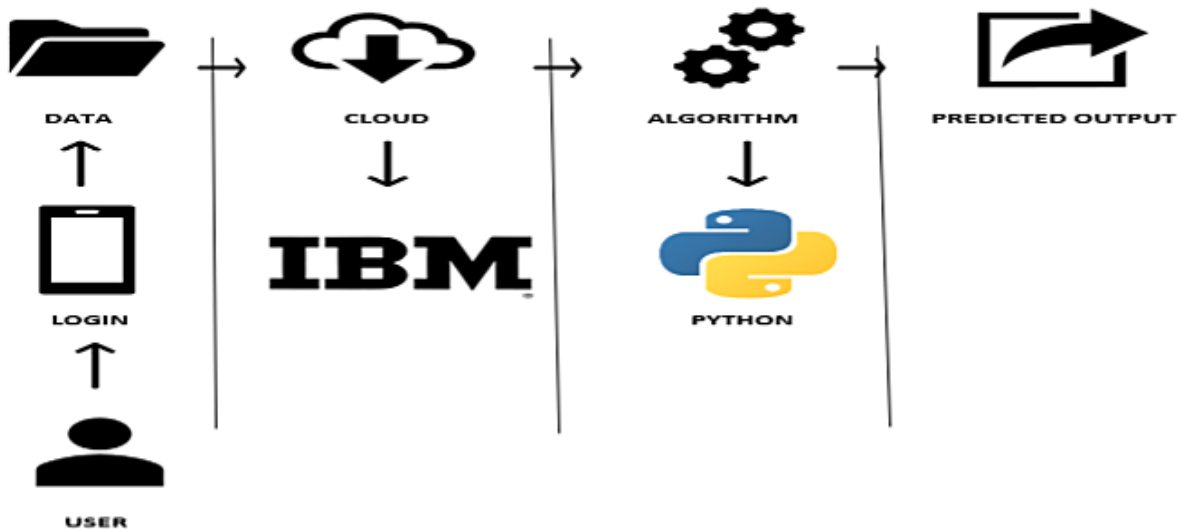
Technical Architecture:

Table-1 : Components & Technologies :

S. No	Component	Description.	Technology
1	Customer	By using Mobile App and Through online registration.	HTML, CSS, Javascrip.
2	Restaurant	It includes all the goods and services that the restaurant meals.	Online transactions.

3	Geolocation	Used to reach the destination.	Google map,user address..
4	Platform owner	Wait 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	No open source framework	Python
2	Security Implementations	Authentication using mail id and password	Password based
	Scalable Architecture	Presentation tier-HTML Application tier-Python model predicts the order demand based on the food interest and region easily through online for the upcoming weeks.	IBM cloud
4	Availability	Data are updated periodically to predict the demand	IBM Watson Assistant

		accurately	
5	Performance	Accurately predicts the demand for particular region	Regression machine learning model

Technical Diagram 2 :