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

Date	15 October 2022
Team ID	PNT2022TMID48753
Project Name	DemandEst – AI POWERED FOOD DEMAND FORECASTER
Maximum Marks	4 Marks

Technical Architecture:

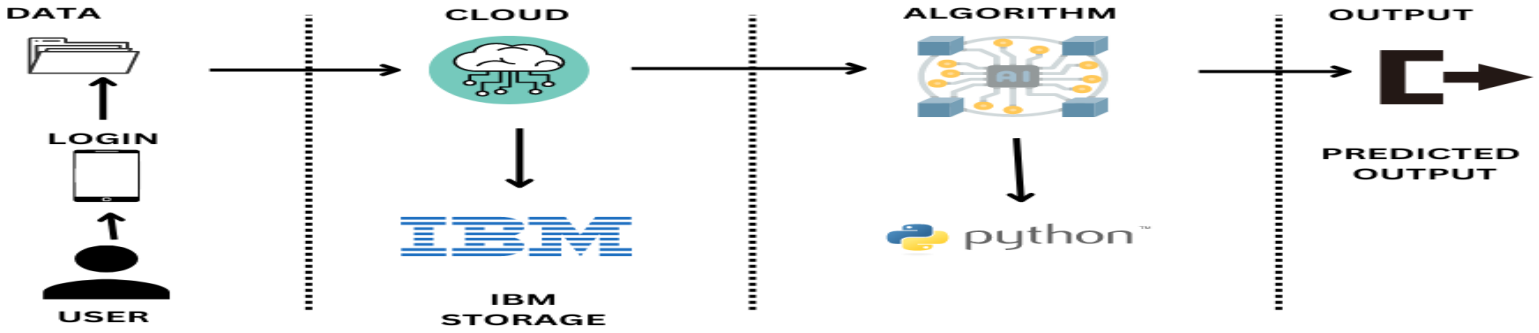

Table-1 : Components & Technologies:

S No	Component	Description	Technology
1.	User Interface	User access to the application through the mobile application.	HTML
2.	Application Logic-1	Creating an application interface	Python
3.	Application Logic-2	Creating an AI assistant that gives food services to the user.	IBM Watson Assistance
6.	File Storage	Files are stored in the local storage and stored in the cloud.	IBM Block Storage or Other Storage Service or Local File system
7.	External API-1	Use this REST API to manage locations. Get all locations. URI, /admin/resources/locations.	IBM Location REST API
8.	Deep Learning Model	Creating an algorithm to calculate case information provides by the fulfillment center.	Object Recognition Model, etc.
9.	Infrastructure (Cloud)	IBM Cloud App Configuration is a centralized feature-management and configuration service on IBM Cloud.	IBM Cloud Foundry

Table 2: Application Characteristics:

S No	Characteristics	Description	Technology
1.	Open-Source Frameworks	There are no open-source frameworks in this application.	Python
2.	Security Implementations	Block chain technology is used for Security implementation its private framework protects all data.	Block chain
3.	Scalable Architecture	Users are provided with food services in online and they can also get info about the recent highly used products. In this model costumer gets benefits on analyzing their industry data and provides prediction on day to day analysis of food that sold and reduce the wastage of food by predicting its sales movements.	IBM Cloud
4.	Availability	Here data are updated and the demands were predicted according to the data.	IBM Watson Assistant
5.	Performance	The geo-fencing algorithm is updated daily and shows the day-to-day updates of the contaminated zones.	Geo fence