

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

Date	03 October 2022
Team ID	PNT2022TMID45161
Project Name	Project – NUTRITION ASSISTANT APPLICATION
Maximum Marks	4 Marks

Technical Architecture:

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

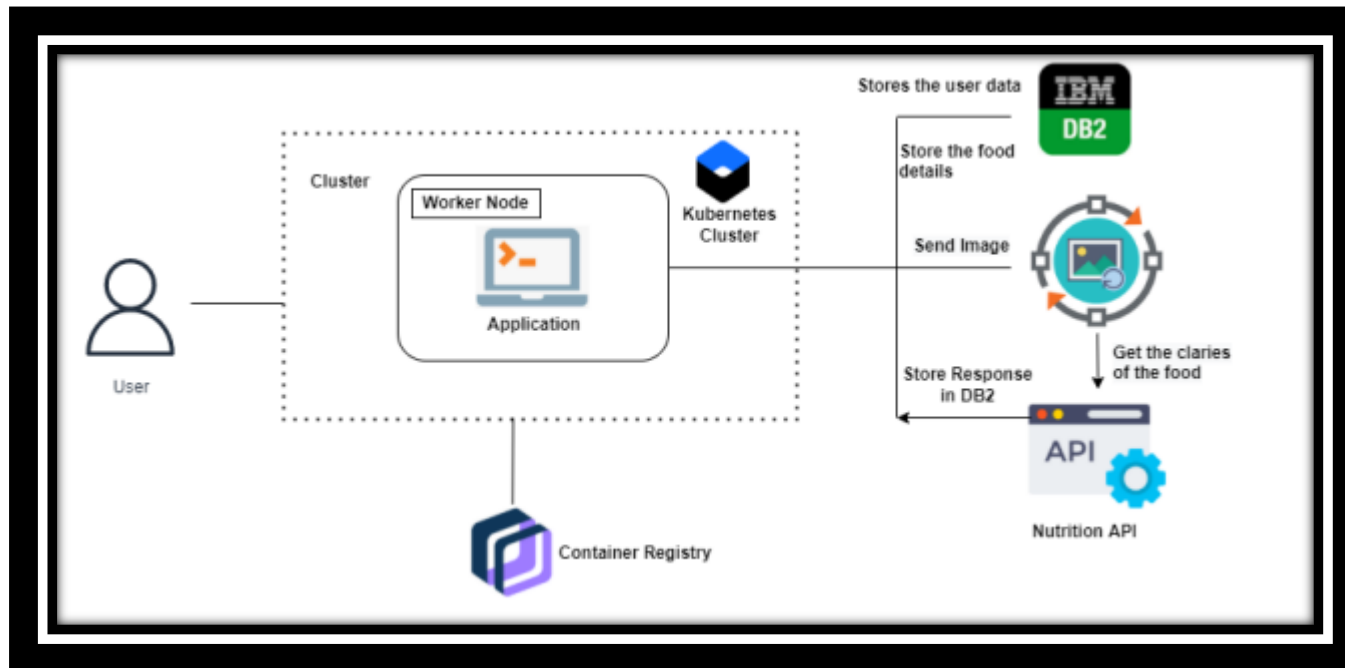


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Chatbot etc.	HTML, CSS, JavaScript , Bootstrap
2.	Application Logic	Logic for a process in the application	Python -Flask
3.	Email service	For verify user and mail address	Sendgrid
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Docker, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Used web technologies	HTML ,JS ,Python ,Flask
2.	Security Implementations	User verification through email service	Sendgrid
3.	Scalable Architecture	Run the app in local and cloud system	Docker and Kubernetes
4.	Availability	Justify the availability of application	Docker , IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests ect)	IBM Cloud, Kubernetes cluster, Container registry