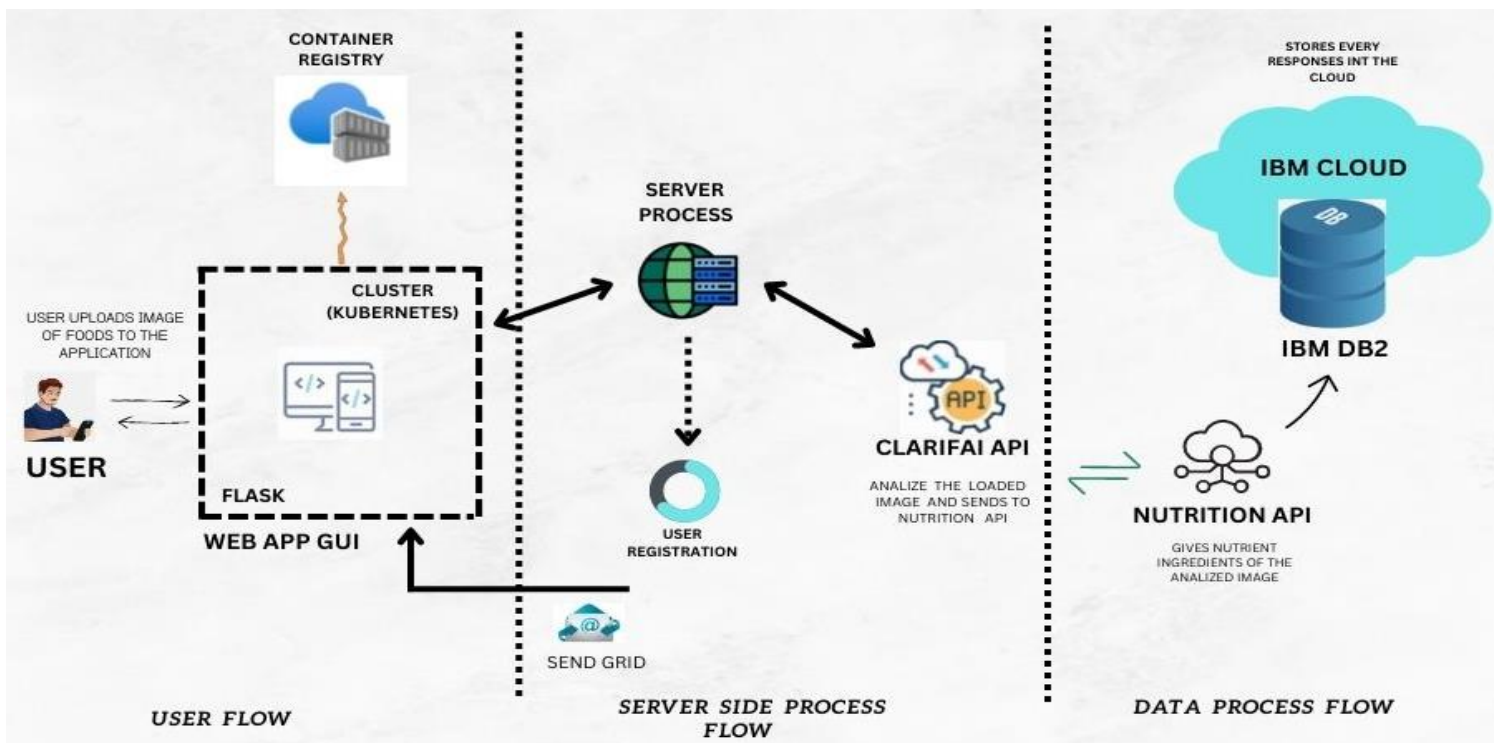


Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	3 October 2022
Team ID	PNT2022TMID10915
Project Name	Nutrition Assistant Application
Maximum Marks	4 Marks

Technical Architecture:



Nutrition Assistant Application

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Email	Verify users and email ads	SendGrid
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	External API-1	Analyze the loaded image	Clarifai's AI Driven Model
6.	External API-2	Gives nutrition informations about thousands of food recipes	Food-Nutrition API
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration:	Docker, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	open-source frameworks used	Flask
2.	Security Implementations	Password hashing	SHA-256 Crypt
3.	Scalable Architecture	Supports high workloads, runs at any systems	Kubernetes, Container Registry
4.	Availability	Available at any where and at any time (24/7)	IBM cloud
5.	Performance	Reduce latency, optimal processing to reduce work loads, 500 requests per day	Docker, Kubernetes, Flask