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

Date	15 October 2022
Team ID	PNT2022TMID49642
Project Name	Nutrition Assistant Application
Maximum Marks	4 Marks

Technical Architecture:
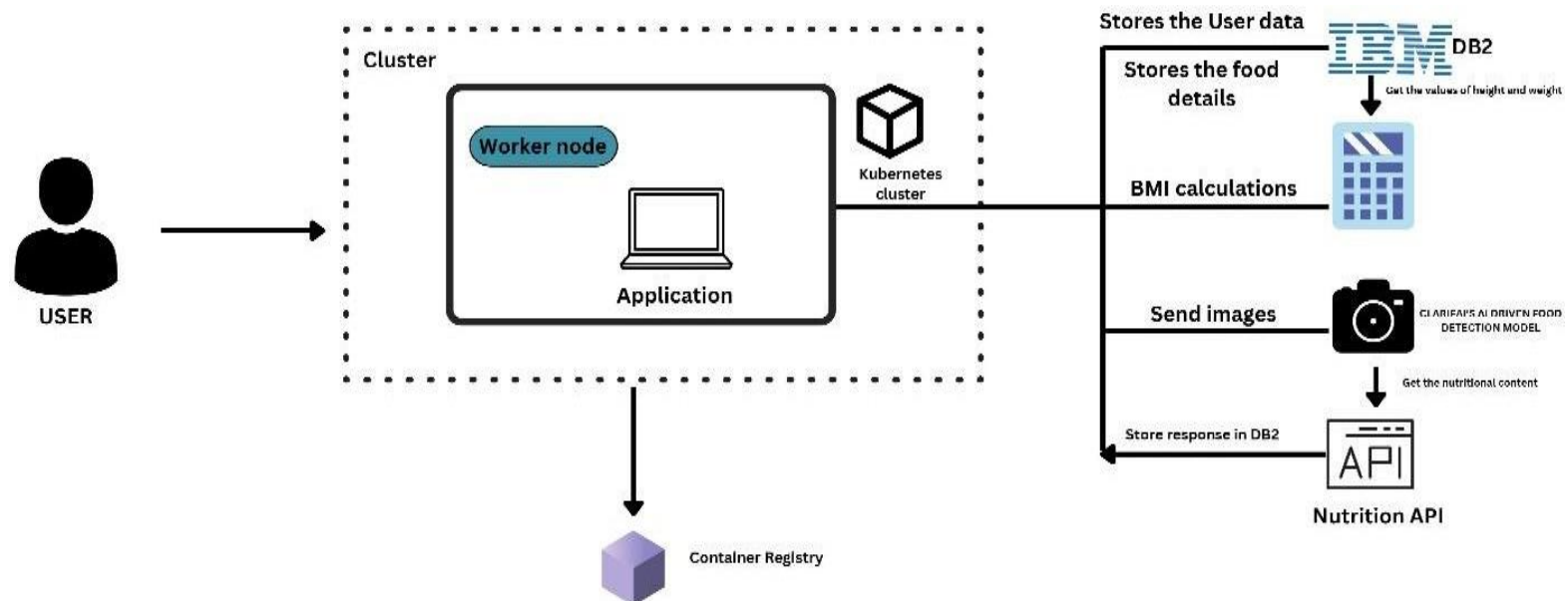
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with application using Login and Form.	HTML-5,CSS, Python FLASK
2.	Registration	User register in the application to verify the user.	Python FLASK,HTML-5,CSS,IBM DB2.
3.	BMI Calculation	Calculate BMI value by using user's height and weight.	Python FLASK,IBM DB2.
4.	Image Analyser	Analyse real time images scanned by the user.	Clarifai's AI driven food detection model
5.	Cloud Database	Database Service on cloud	IBM DB2
6.	Kubernetes cluster	Run containerized application	IBM kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Docker is used for open source framework.	Docker
2.	Scalable Architecture	It connected with scalable architecture.	IBM DB2
3.	Availability	This application is anytime accessible.	Python FLASK
4.	Performance	Record resource request and save registered information. Availability of application.	IBM DB2