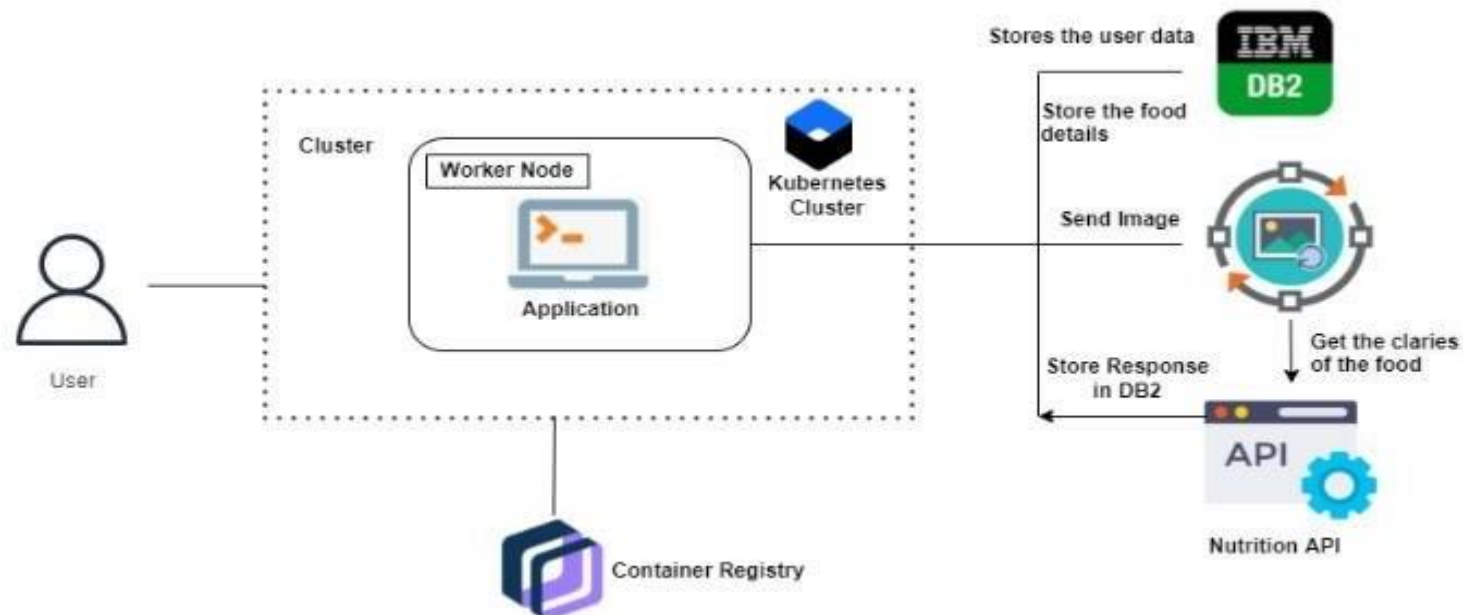


TEAM ID	PNT2022TMID31308
PROJECT NAME	NUTRITION ASSISTANT APPLICATION
TEAM LEADER	CHANDRAKANTH.G
TEAM MEMBERS	BHARANI.V JEEVANRAJ.S KISHOR.S

## TECHNOLOGY STACK

### 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	Web UI	HTML, CSS, JavaScript
2.	To get the food nutrition and calorie value	The user will upload the food picture. Then the user will see the food nutrition value the process will compute	Python, Flask (web Framework), HTML, CSS, JavaScript.
3.	Database	Get the user's name, mail and store the food calories value. Data types: integer, string, Float Number and etc.,	MySQL or PostgreSQL
4.	Cloud Deployment	Through is the application Will compose to the internet	Kubernetes, Docker
5.	External API-1	To predict the image that user will upload in the upload image page	Clarifai's AI-driven Food detection Model API
6.	External API-2	Food API's for to the nutritional value for the identified food	Food API
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc. Docker.

**Table-2: Application Characteristics:**

S.NO	Characteristics	Description	Technology
1.	Open-Source Frameworks	We are using both front and back end here to run the web application.	Flask (Microweb framework) Vue.js
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g., SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Presentation tier- HTML/ CSS/ JavaScript Application tier- Python (API) Data tier- MySQL, PostgreSQL
4.	Availability	Justify the availability of applications (e.g., use of load balancers, distributed servers etc.)	IBM Cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cloud