Project Design Phase-I
Solution Architecture

Date	1 October 2022
Team ID	PNT2022TMID53022
Project Name	Project – Nutrition Assistant Application
Maximum Marks	4 Marks

Solution Architecture v1 (Minimum Viable Architecture)

Goal:

To design a Minimum viable architecture for the proposed Nutrition Assistant application that helps the user keep track of calorie consumption easily.

Note: This document will be iteratively improved in the upcoming design phases as per agile development methodologies.

Tech stack used:

Front end – React

Back end – Flask, python

Database – IBM Db2 instance

Target hardware – Any device with browsing capabilities.

Product Requirements:

- Ability for user to log their food details.
- Edit and view previous records
- Show trends in eating habits
- Remind users to log their data
- Ability to show users their recommended calorie intake.
- Add support for integration of third-party APIs to recognise food from pictures

Priority product requirements:

- User authentication
- Initialize a remote database to store details
- Design interfaces for user to add their data and view data
- Add support for local camera integration
- Breakdown of macro and micro nutrients
- Display summary

Solution Architecture Diagram:

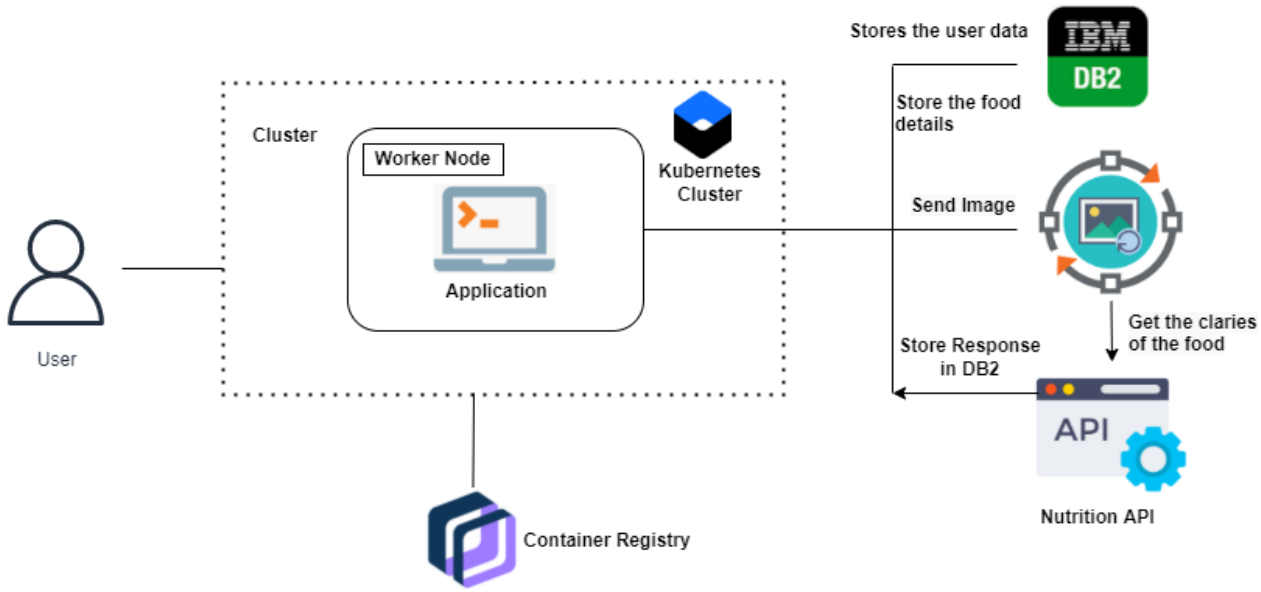

Figure 1: Architecture and data flow of the proposed Nutrition assistant application