

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	19 October 2022
Team ID	PNT2022TMID34973
Project Name	Nutrition Assistant Application

TECHNICAL ARCHITECTURE:

The Deliverables shall include the architectural diagram as below and the information as per the table 1 & table 2.

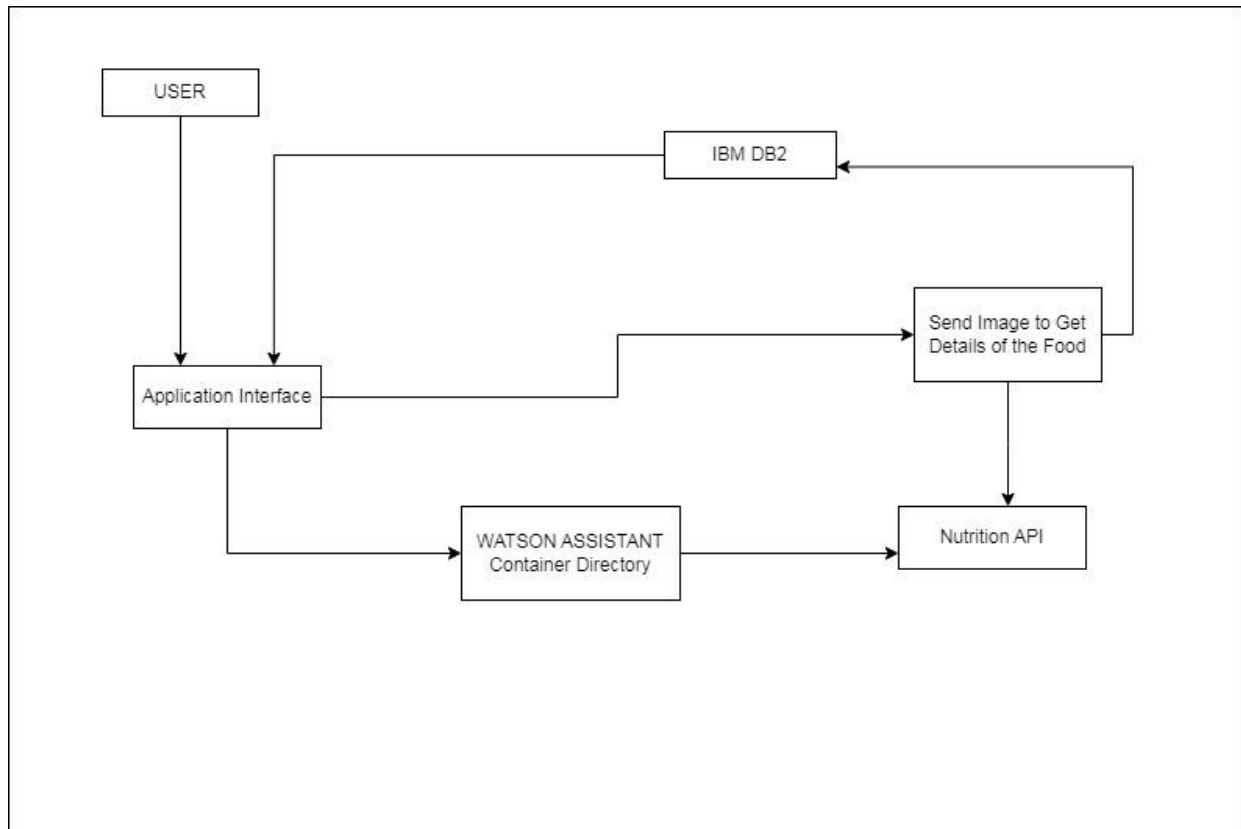


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	User interacts with application such as Web UI, Mobile App.	HTML, CSS
2	Application Logic-1	Logic for a process in the application of nutrition assistant	Python
3	Application Logic-2	Logic for a process in the application for the container.	IBM Watson STT service
4	Application Logic-3	Logic for a process in the application for creating ChatBot	IBM Watson Assistant
5	Database	Data Type, Configurations etc.	IBM DB2
6	File Storage	File storage stores the file related to the nutrition	IBM Block Storage or Other Storage Service or Local Filesystem

7	External API-1	Purpose of External API used in the application which interacts with file Storage	IBM Weather API, etc.
8	Infrastructure (Server / Cloud)	<p>Application Deployment on Local System / Cloud</p> <p>Local Server Configuration:XAMPP</p> <p>Cloud Server Configuration : IBM Cloud</p>	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	IBM Cloud Foundry is the Open-Source Framework used to build, deploy and run of the application.	Cloud Foundry

2	Security Implementations	Web Application Firewall.	Encryptions, OWASP etc.
3	Scalable Architecture	It is highly scalable and always meets up with the user's demand.	No Technology used
4	Availability	Available on the web and can be used anywhere and anytime.	Python
5	Performance	The overall Performance will be good and user Friendly.	The software requirement as Python, Docker, Flask