

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

Date	15 October 2022
Team ID	PNT2022TMID32153
Project Name	Project – Nutrition Assistant Application
Maximum Marks	4 Marks

Technical Architecture:

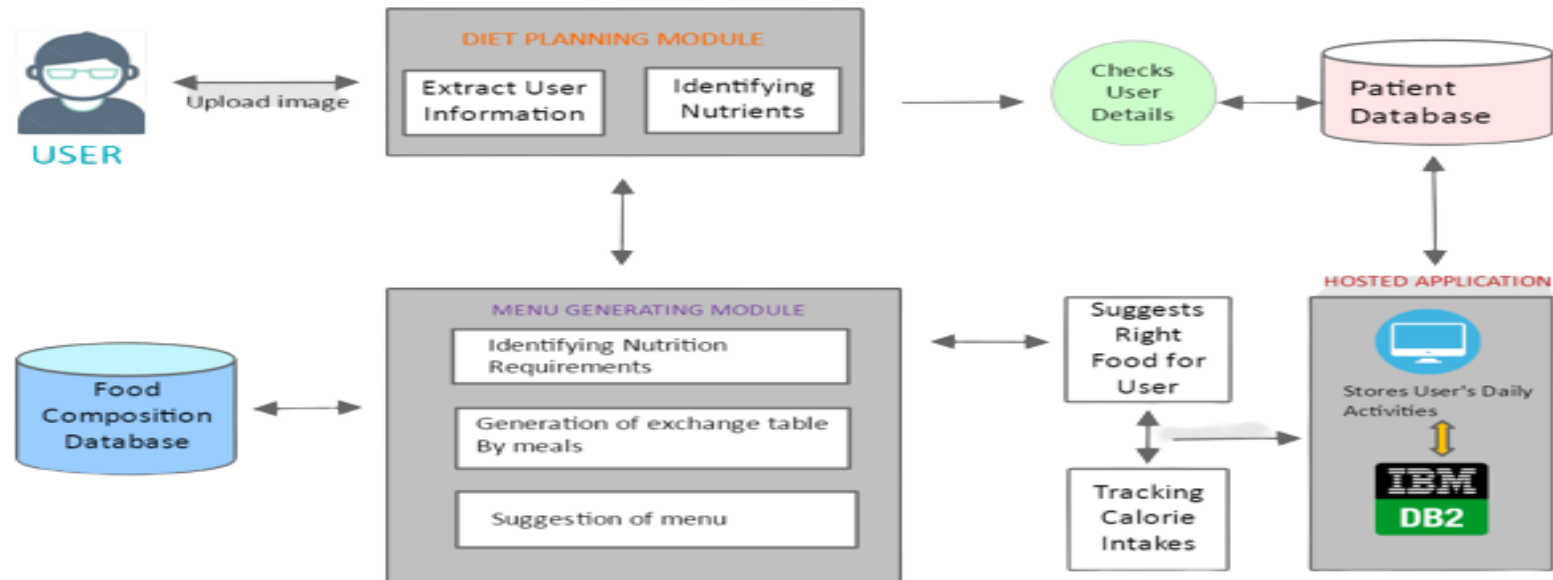


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Login to the account	Authenticating the user	Java / Python
3.	Raising a ticket	User raises a ticket regarding the query	Flask
4.	Chat bot	User can interact with the bot	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Clarifai's AI	To identify the image of food the AI used on the application	IBM clarifai's AI
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Docker, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Framework used to create website	Flask
2.	Security Implementations	This application effectively manages the security of its application systems, protecting information from unauthorized access, modification, or destruction in order to provide integrity, confidentiality & availability .	SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	User's can track their calories by adding food items into the respective fields, so the system can calculate whether they consumed the required number of calories. Observes physical activity	Presentation tire-HTML?CSS,javascript
4.	Availability	Fitness apps are like to one-stop station where you can monitor all your lifestyle parameters like step count, diet, water intake, blood parameters and workout routine. This application have a huge positive impact on your health.	Web server
5.	Performance	Enter everything you eat & drink during the day, & then let the application approximate the number of calories & nutrients you're consuming	-