

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

DATE	09 November 2022
TEAM ID	PNT2022TMID13978
PROJECT TITLE	AI-powered Nutrition Analyzer for Fitness Enthusiast
MAXIMUM MARKS	4 Marks

TECHNICAL ARCHITECTURE: The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2.

PROJECT DESIGN PHASE II:

Technology Stack (Architecture & Stack)

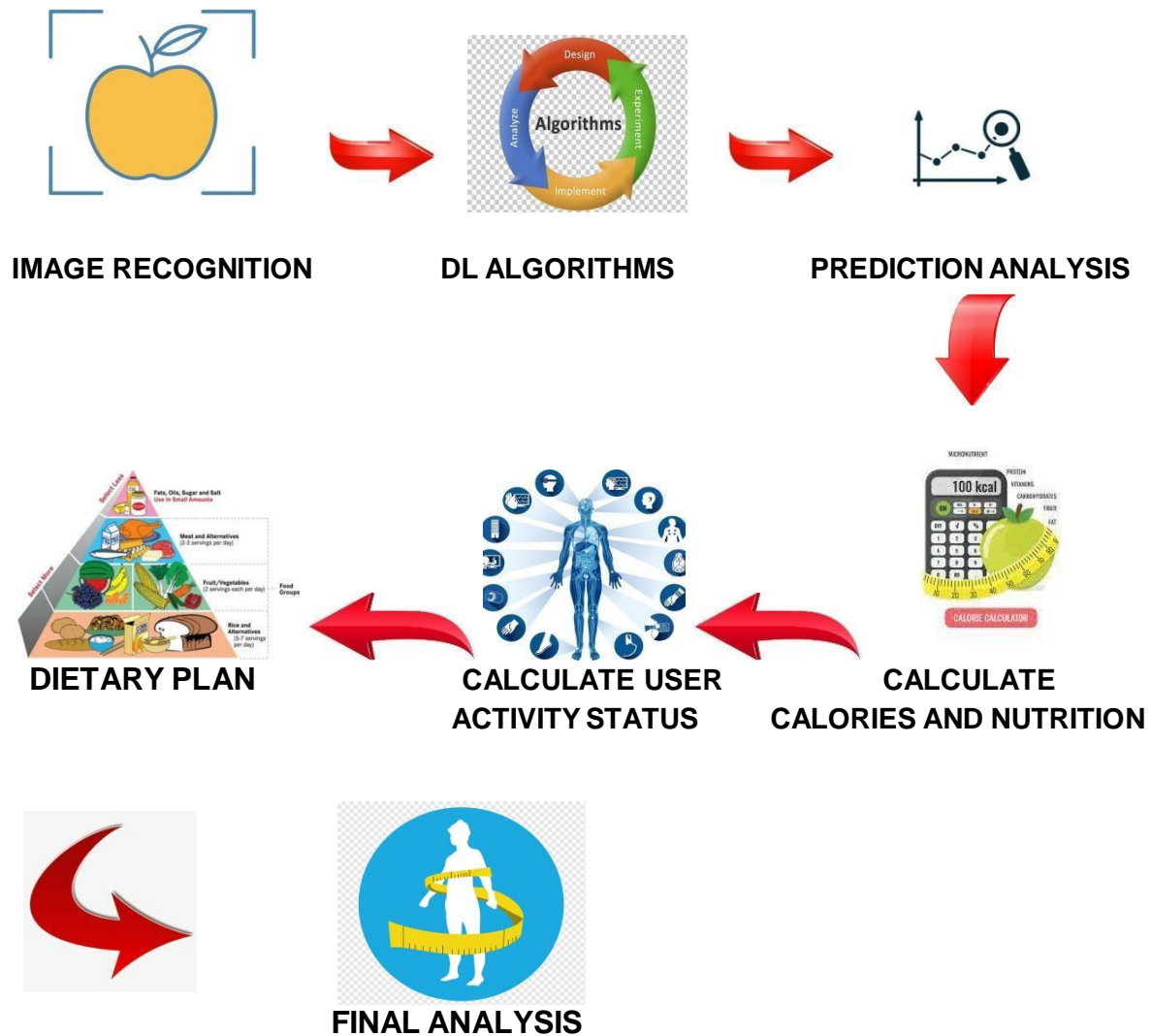


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application.e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS,
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
	Cloud Database	Database Service on Cloud	IBM Cloudant
6.	File Storage	File storage requirements	IBM Block Storage or Local Filesystem
7.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
8.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
9.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
1	Infrastructure (Server /Cloud)	Application Deployment on LocalSystem / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Google Colab
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, IAM Controls
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	HTML ,python
4.	Availability	Justify the availability of applications(e.g. use of load balancers, distributed servers etc.)	HTTP
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Cloudflare