

Project Design

Phase-II Technologystack(Architecture&S  
tack)

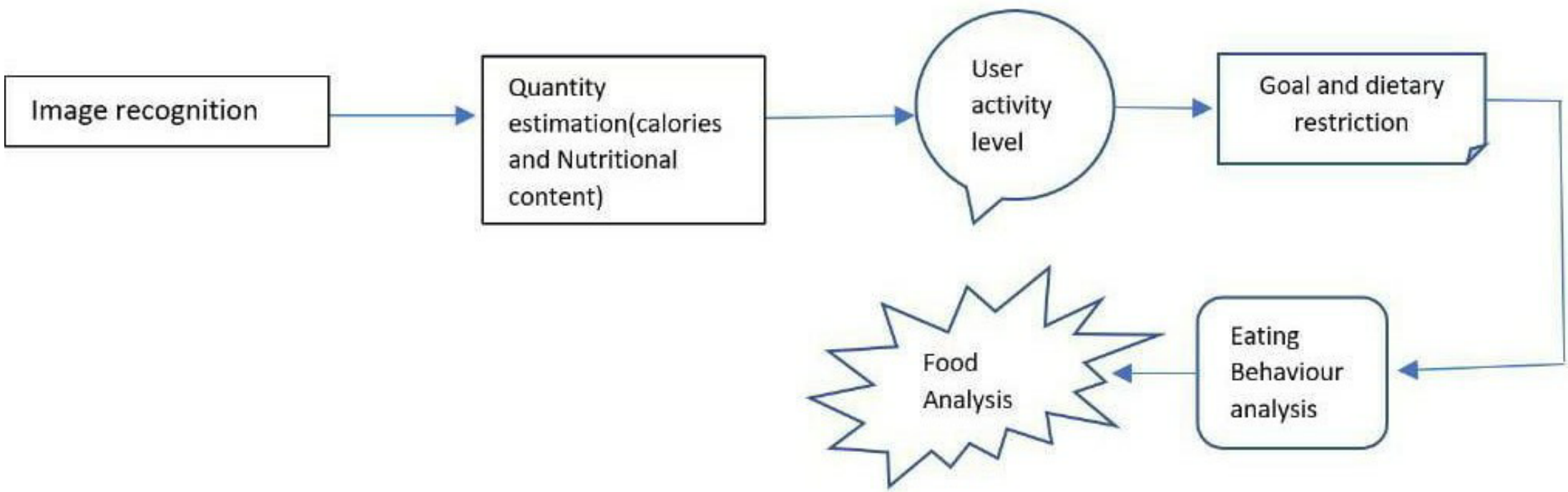
Date	05/10/2022
Team ID	PNT2022TMID23648
ProjectName	AI Powered Nutrition Analyst for Fitness Enthusiasts
MaximumMarks	4Marks

TechnicalArchitecture:

The deliverable must include the architectural diagram shown below as well as the data from table 1 and 2.

ProjectDesignPhase-II

Technologystack(Architecture&Stack)



ProjectDesignPhase-II

Technologystack(Architecture&Stack)

Table-1:Components&Technologies:

S. No	Component	Description	Technology
1	UserInterface	Howthe userinteractswiththeapplication, forasthroughaChat box,Mobileapp, etc	HTML
2	ApplicationLogic-1	Aprocess reasoningin theapplication	Python
3	ApplicationLogic-2	Aprocess reasoningin theapplication	Flaskframework
4	ApplicationLogic-3	Aprocess reasoningin theapplication	IBM cloud
5	Database	DataType,Configurationsetc.	Sequential
6	CloudDatabase	Clouddatabaseservice	IBMDB, IBM Cloudant etc

7	FileStorage	Storage needed for files	IBM Block Storage or Other Storage Service or Local File system
8	External API-1	Purpose of External API used in the application	Function API
9	External API-2	Purpose of External API used in the application	Rapid API
10	Machine Learning Model	Purpose of Machine Learning Model	CNN
11	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local Browser, Cloud Foundry, etc.,

**Project Design Phase-II**

**Technology stack (Architecture & Stack)**

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Describe the utilised open-source frameworks.	Anaconda Navigator
2	Implementations in Security	List every security and access control measure used, including firewalls.	Encryptions
3	Scalable Architecture	Justify the three-tier architecture's ability to scale.	HTML, Python
4	Availability	Justify the availability of application (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