

Project Design

Phase-II Technologystack(Architecture&Stack)

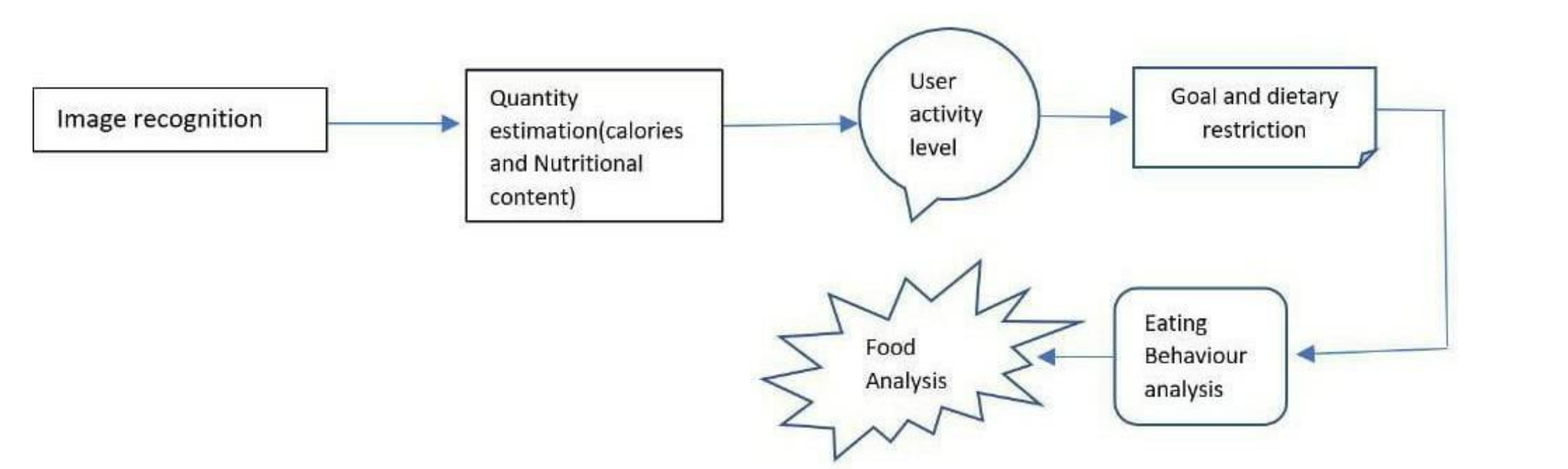
Date	05/10/2022
Team ID	PNT2022TMID23671
ProjectName	AI Powered Nutrition Analyst for Fitness Enthusiasts
MaximumMarks	4Marks

TechnicalArchitecture:

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

Project Design Phase-II

Technologystack(Architecture&Stack)



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Technologystack(Architecture&Stack)

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1	User Interface	How the user interacts with the application, for example through a Chat box, Mobile app, etc	HTML
2	Application Logic-1	A process reasoning in the application	Python
3	Application Logic-2	A process reasoning in the application	Flask framework
4	Application Logic-3	A process reasoning in the application	IBM cloud
5	Database	Data Type, Configuration etc.	Sequential
6	Cloud Database	Cloud database service	IBM DB, IBM Cloudant etc

7	FileStorage	Storage need 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.,

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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.	Encryption
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