

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

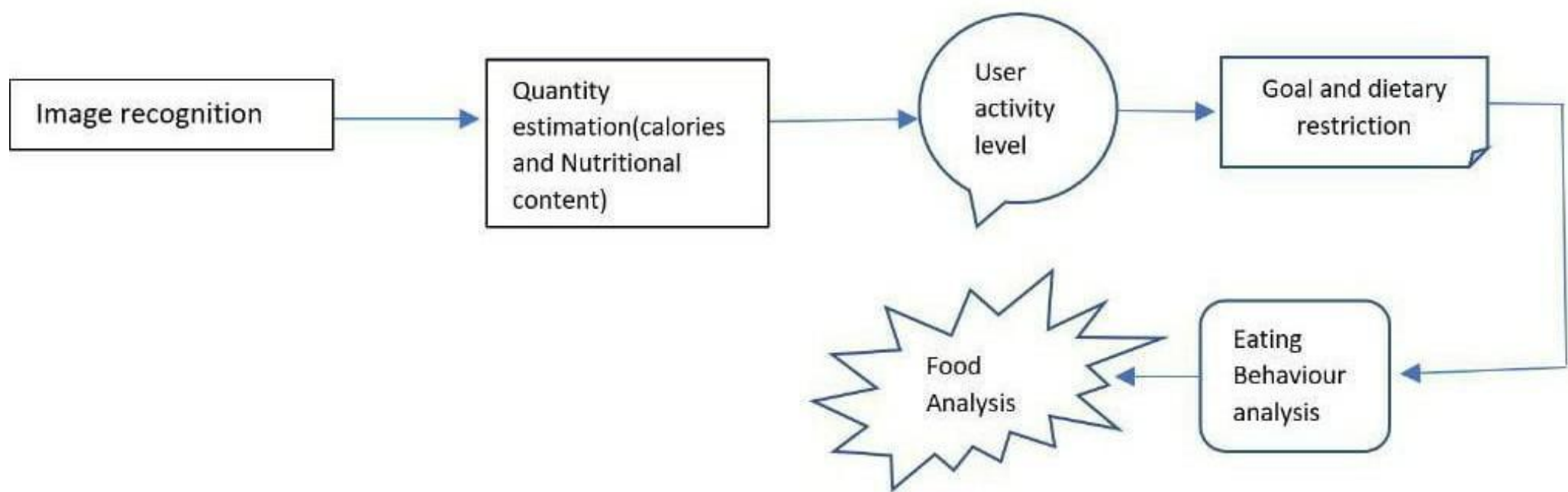
Date	05/10/2022
Team ID	PNT2022TMID52113
Project Name	AI Powered Nutrition Analyst for Fitness Enthusiasts
Maximum Marks	4Marks

Technical Architecture:

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

Project Design Phase-II

Technology stack (Architecture & Stack)



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Technology Stack (Architecture & Stack)

Table-1: Components&Technologies:

S. No	Component	Description	Technology
1	User Interface	How the user interacts with the application, Forsa through a Chat box, Mobile app, etc	HTML
2	ApplicationLogic-1	A process reasoning in the application	Python
3	ApplicationLogic-2	A process reasoning in the application	Flask framework
4	ApplicationLogic-3	A process reasoning in the application	IBM cloud
5	Database	Data Type, Configurations etc.	Sequential
6	Cloud Database	Cloud database service	IBMDB, IBM Cloud ant Etc

7	File Storage	Storage need for files	IBM Block Storage Or Other Storage Service or Local File system
8	External AP-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 and Stack)

Table-2: ApplicationCharacteristics:

S. No	Characteristics	Description	Technology
1	Open-Source Frameworks	Describe the utilized open-source Frameworks.	Anaconda Navigator
2	Implementations insecurity	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 Parsec ,use of Cache ,use of CDN’s)etc.	Cloud flare