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

Date	21 October 2022
Team ID	PNT2022TMID25018
Project Name	Project - AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	4 Marks

Technical Architecture:

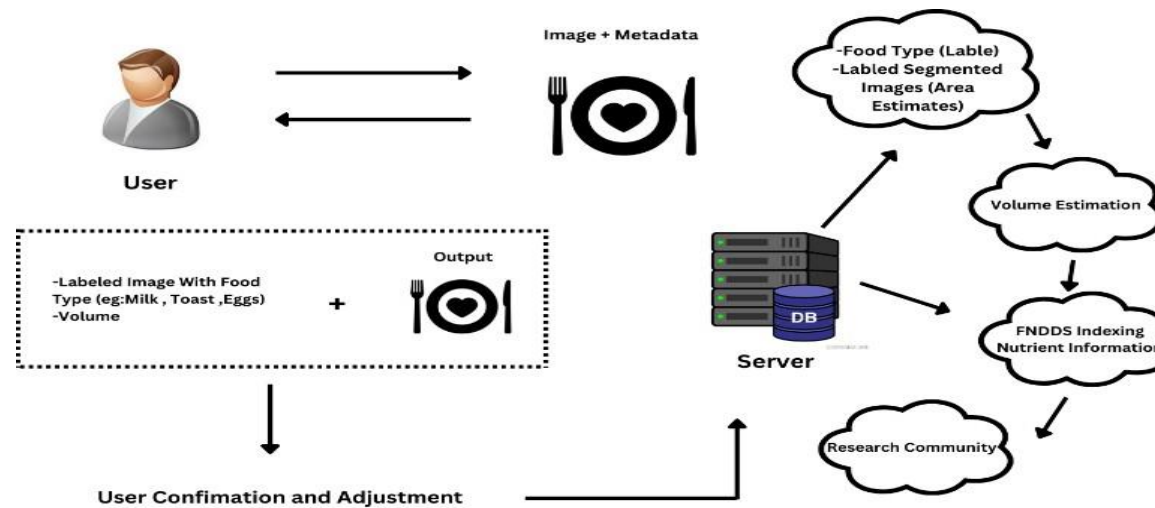The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with application using form, login, Request notification, Web UI, Mobile App, Chatbot etc.	HTML, CSS, React JS, Python, Flutter, Bootstrap, Node JS, JQuery etc.
2.	Registration	User register in the application to connect with bank account and personnel information	HTML, CSS, React JS, Python, Flutter, Bootstrap, Node JS, JQuery IBM DB2
3.	Registration	Verification of user details and their account details	HTML, CSS, React JS, Python, Flutter, Bootstrap, Node JS, JQuery IBM DB2
4.	Notification of registration	Sends the notification to the user	HTML, CSS, React JS, Python, Flutter, Bootstrap, Node JS, JQuery IBM DB2
5.	Tracking of Expenses	Expenses of user start tracking their health and fitness through application	MySQL, Python, Flutter, IBM DB2, JQuery
6.	SendGrid	Sends email alert to the user	Sendgrid
7.	Cloud Database	Database service on Cloud	IBM DB2
8.	Kubernetes cluster	Run Containerized application	IBM Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	JQuery is used for open source Framework	JQuery
2.	Scalable Architecture	It is connected with Scalable Architecture	IBM DB2
3.	Availability	This application is connected with anytime accessible	Python, Flutter
4.	Performance	Record Resource requests and save registered information. Availability of application	IBM DB2
5.	Security Implementations	authentication, authorization, encryption, logging, and application security testing	Application security testing