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

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|---|---|
| Date | 05/10/2022 |
| Team ID | PNT2022TMID30659 |
| Project Name | AI Powered Nutrition Analyst for Fitness Enthusiasts |
| Maximum Marks | 4 Marks |

## Technical Architecture:

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

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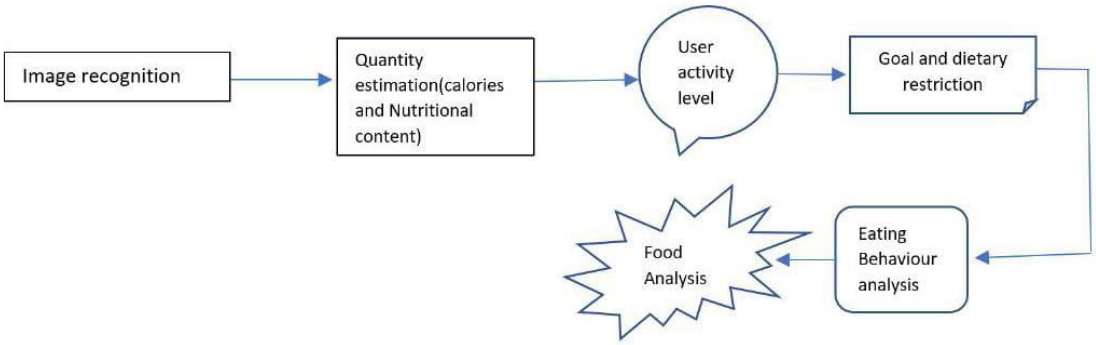


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### Table - 1: Components & Technologies:

| S. No | Component | Description | Technology |
|---|---|---|---|
| 1 | User Interface | How the user interacts with the application, for as 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, Configurations etc. | Sequential |
| 6 | Cloud Database | Cloud database service | IBM DB, 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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## 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 |