**Project Design Phase-II**

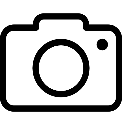
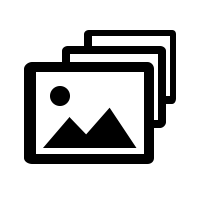
**Technology Stack (Architecture & Stack)**

|  |  |
| --- | --- |
| Date | 20 October 2022 |
| Team ID | PNT2022TMID22371 |
| Project Name | AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 4 Marks |

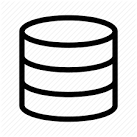
**Technical Architecture:**



**USER IBM Cloud Internet**



**Ingredients**

****

Machine Learning Model

**Identify Food Ingredients**

**Calories**

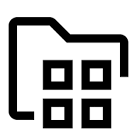
**Captured image**

**Device camera**

**IBM Cloudant**

**Application**

Nutrition Analyser



**IBM Block Storage**

**Components & Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
| **1.** | User Interface | The user interacts with application Web UI for the nutrition content for the given food. | HTML, CSS, JavaScript |
| **2.** | Database | Data Type, Configurations will be stored | MySQL |
| **3.** | Cloud Database | Database Service on IBM Cloud | IBM DB2, IBM Cloudant etc. |
| **4.** | File Storage | File storage requirements | Storage will be based on Cloud |
| **5.** | Machine Learning Model | To classify the image of food and provide the nutrient content of the same. | OPEN CV,MATPLOTLIB, ANN ,CNN, RNN |
| **6.** | Infrastructure (Server / Cloud) | Application Deployment on Cloud | IBM CLOUD |