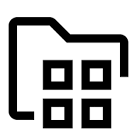
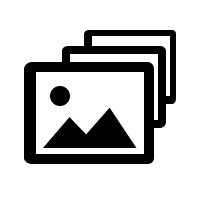
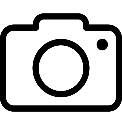
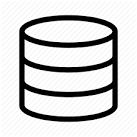
Project Design Phase-II Technology Stack (Architecture & Stack)



**IBM Cloud**

**Total**

**Calories Consumed**

**Identify Food**

**Ingredients**

**IBM**

**Cloudant**

**Personal**

**Choice records**

**IBM Block**

**Storage**

**Calories**

**Ingredients**

**Internet**

**Application**

Nutrition Analyser

**Captured**

**image**

**Device camera**

**USER**

Machine Learning Model

|  |  |
| --- | --- |
| Date | 06 November 2022 |
| Team ID | PNT2022TMID41312 |
| Project Name | AI-powered Nutrition Analyzer for  Fitness Enthusiasts |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

**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 |