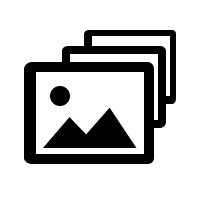
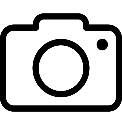
**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

|  |  |
| --- | --- |
| Date | 23 November 2022 |
| Team ID | PNT2022TMID43214 |
| Project Name | AI-powered Nutrition  Analyzer for Fitness Enthusiasts |
| Maximum Marks | 4 Marks |

**Technical Architecture:**



**IBMCloud**

**Total**

**CaloriesConsumed**

**IdentifyFood**

**Ingredients**

**IBM**

**Cloudant**

**Personal**

**Choice**

**records**

**IBM Block**

**Storage**

**Calories**

**Ingredients**

**Internet**

**Application**

NutritionAnalyser

**Captured**

**image**

**Devicecamera**

**USER**

Machine LearningModel

**Components&Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
| **1.** | UserInterface | The user interacts with applicationWeb UI for the nutrition content forthegiven food. | HTML,CSS,JavaScript |
| **2.** | Database | Data Type, Configurations will bestored | MySQL |
| **3.** | CloudDatabase | DatabaseServiceonIBMCloud | IBM DB2, IBM Cloudantetc. |
| **4.** | FileStorage | Filestorage requirements | Storage will be based onCloud |
| **5.** | MachineLearningModel | To classify the image of food andprovide the nutrient content of thesame. | OPEN CV, MATPLOTLIB,ANN,CNN, RNN |
| **6.** | Infrastructure(Server/Cloud) | ApplicationDeploymentonCloud | IBMCLOUD |