Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	20 October 2022
Team ID	PNT2022TMID08145
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	4 Marks

Technical Architecture:
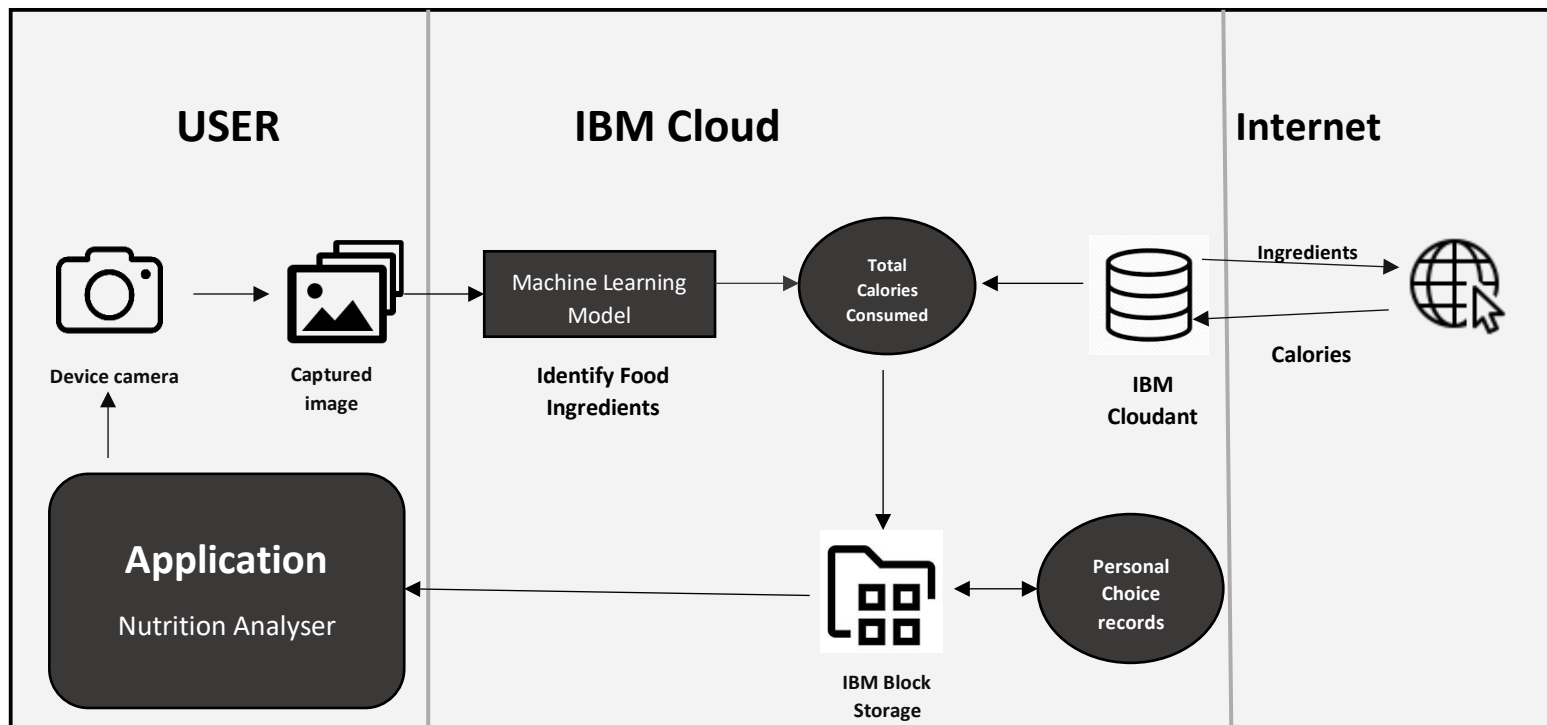
Components & Technologies:

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