

PROJECT DESIGN PHASE – II

TECHNOLOGY STACK (ARCHITECTURE & STACK)

Date	16 October 2022
Team ID	PNT2022TMID21496
Project Name	AI-Powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	4 Marks

TECHNICAL ARCHITECTURE

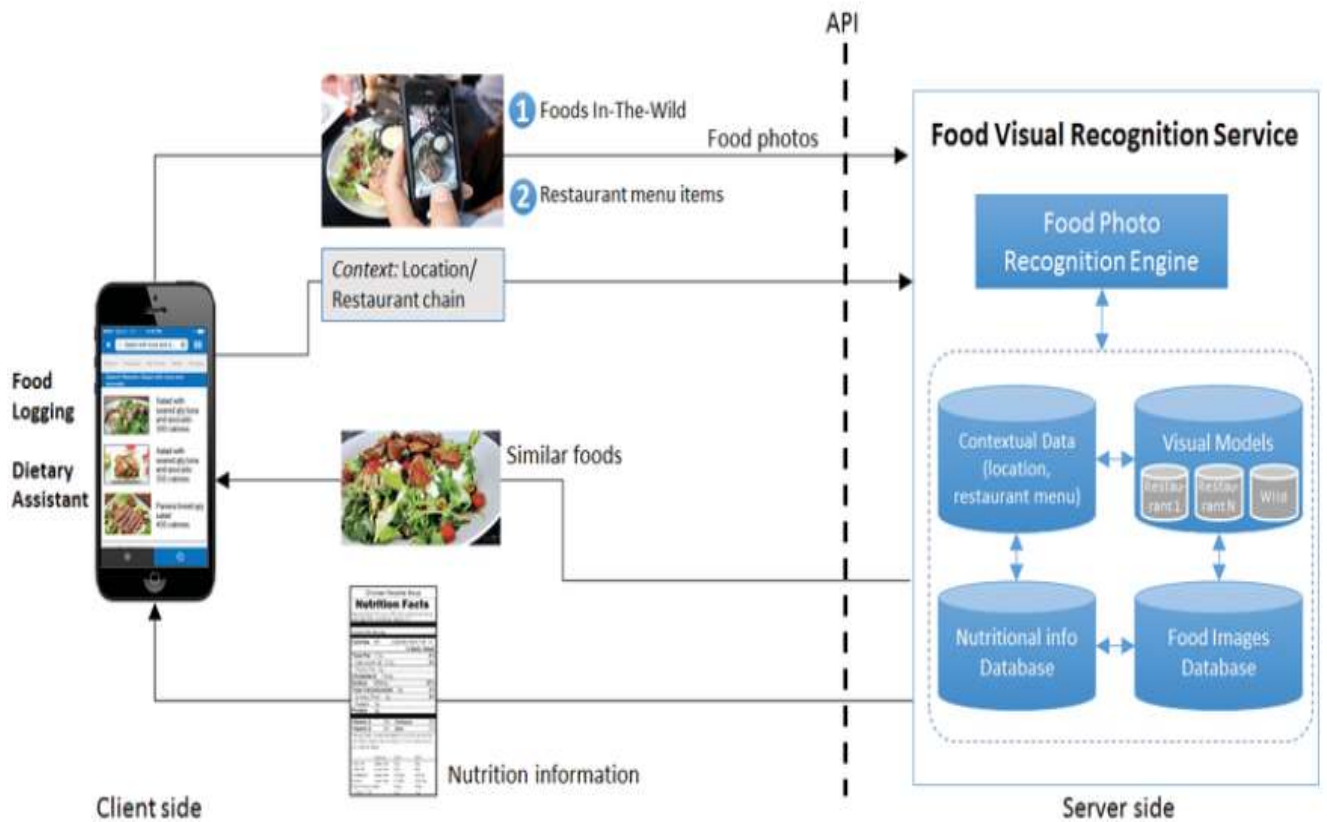


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	App	User interacts with application for the prediction of Nutrition	Python, Java, HTML, SQLite, Android studio
2.	Database	Data Type, Configurations and data will be stored	MySQL, JS
3.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
4.	File Storage	File storage requirements	Cloud -- > drive
5.	Machine Learning Model	Purpose of Machine Learning Model	ANN, CNN, RNN
6.	Notification	Notification will be sent from the server	SendGrid

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask	Werkzeug, jinja2, Sinatra Ruby framework, Android.
2.	Security Implementations	Data protection, Secure flag, cookies etc.	Authorized APIs Only, Data Encryption, OWASP etc.
3.	Scalable Architecture	Micro-services	Micro web application by Flask.
4.	Availability	Distributed servers, Google playstore.	Werkzeug, jinja2, Sinatra Ruby framework, Android.
5.	Performance	High Flexibility Quick accessibility High speed	SQLAlchemy, extensions, Werkzeug, jinja2, Sinatra Ruby framework.