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

Date	17 October 2022
Team ID	PNT2022TMID42787
Project Name	Project – News Tracker Application

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
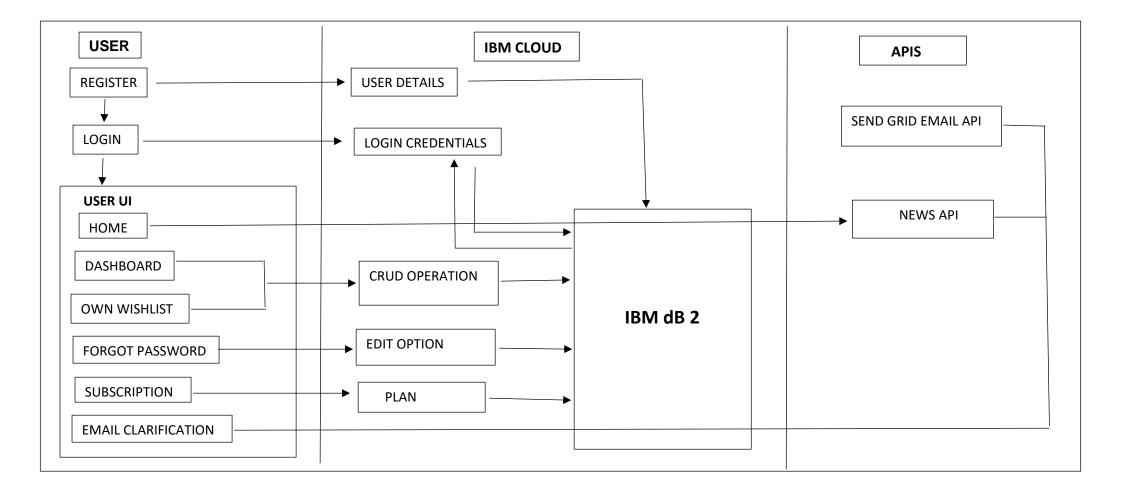
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML5, CSS3, Bootstrap3, Java Script
2.	Application Logic-1	Logic for a process in the application	Python Flask
3.	Application Logic-2	Logic for a process in the application	Send Grid Service
4.	Application Logic-3	Logic for a process in the application	News API
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	IBM Object Storage
8.	External API-1	Purpose of External API used in the application	News API
9.	External API-2	Purpose of External API used in the application	Google News API
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Docker, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Bootstrap3,Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	HTTPS , SSL

S.No	Characteristics	Description	Technology
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Micro Service
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Load Balancer handled by IBM
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM free tier