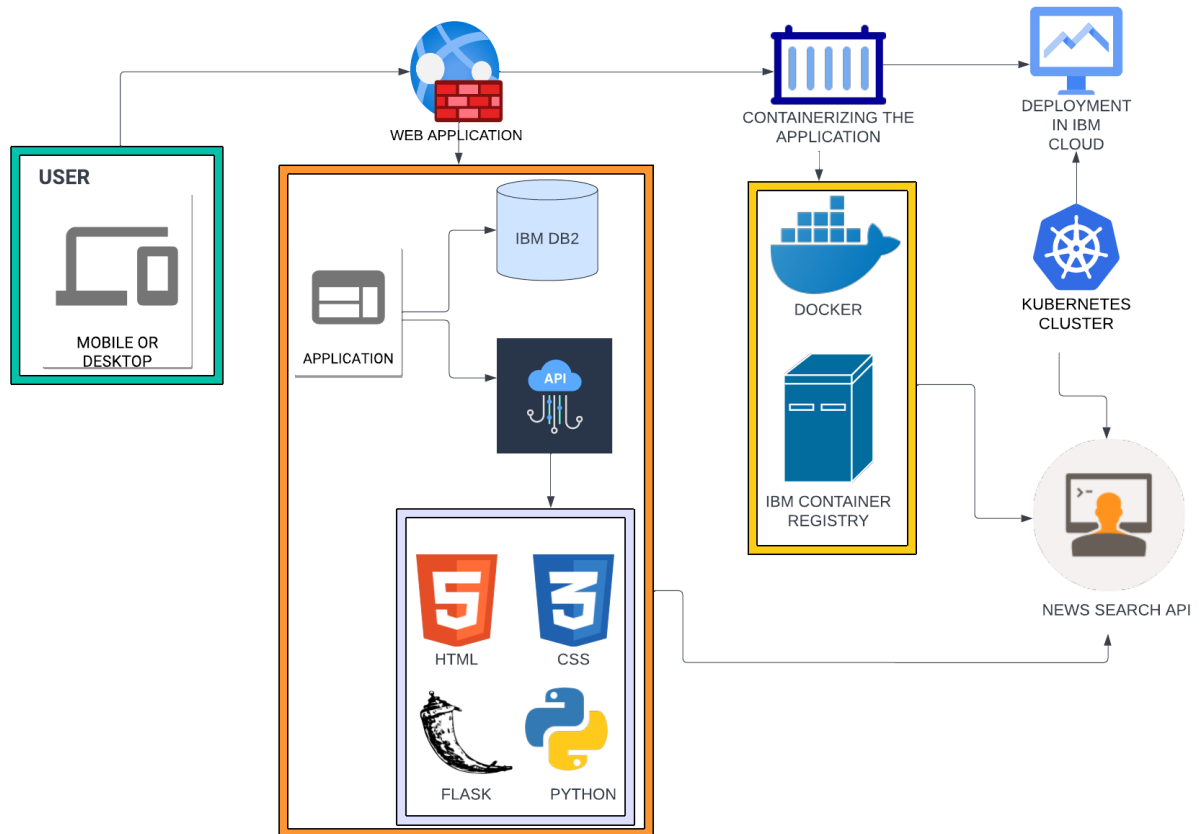


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID29263
Project Name	Project - NEWS TRACKER APPLICATION
Maximum Marks	4 Marks

### Technical Architecture:



*Technical architecture of News Tracker Application*

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	User interaction with application like reading news and interacting with chat bot	HTML, CSS, JavaScript, Flask, Python.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Chat Bot	Interaction between chatbot and user	IBM Watson Assistant
4.	Database	Data Type, Configurations	MySQL, NoSQL, etc.

5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	File Storage	File storage requirements	IBM Object Storage
7.	Containerizing app	Containerize web application for usage	Docker, IBM cloud registry
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud, Kubernetes

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Bootstrap, Flask, Rapid API
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Built-in-security
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	3-tier
4.	Availability	Justify the availability of applications (e.g. use of load balancers, distributed servers etc.)	Load balancer
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	It depends upon user login