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

Team ID	PNT2022TMID06095
Project Name	Project - News Tracker Application
Maximum Marks	4 Marks

Technical Architecture:

As our lives are very busy these days, we often feel we need more than 24 hrs. a day to cope up with everything we have in our schedule. Well, that's not possible but reducing the time by changing the conventional method of reading news can help. Just tell us what market news you're interested in and get a quick peek for the day. Only read what you feel is relevant and save your time. This app helps you to query for all information about Indices, Commodities, Currencies, Future Rates, Bonds, etc.… as on official websites.
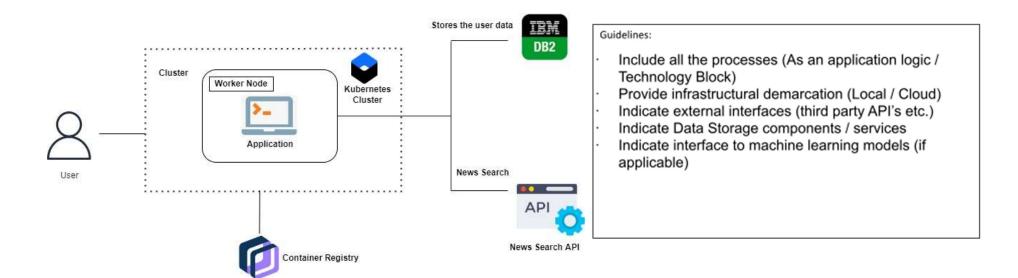
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / React Js etc.
2.	Application Logic-1	The application contains this resource gives you basic understanding of Flask.	Python (Flask)
3.	Application Logic-2	The application contains the news sub-division like geographical news, economic news and society news.	IBM Watson Assistant
4.	Database	Updating of trending news are stored in the MySQL database.	MySQL
5.	Cloud Database	With the use of cloud, media coverage issue cannot be occurred.	IBM DB
6.	External API-1	Purpose of External API used in the application	Rapid API
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is flexible and doesn't require to use any particular projector code layout used in this application	Python-Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, IAM Controls, OWASP
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Kubernetes
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	IBM Cloud
5.	Performance	The updating of trending news occurs without any interruption. So, it performance is good.	Container registry, Kubernetes Cluster.