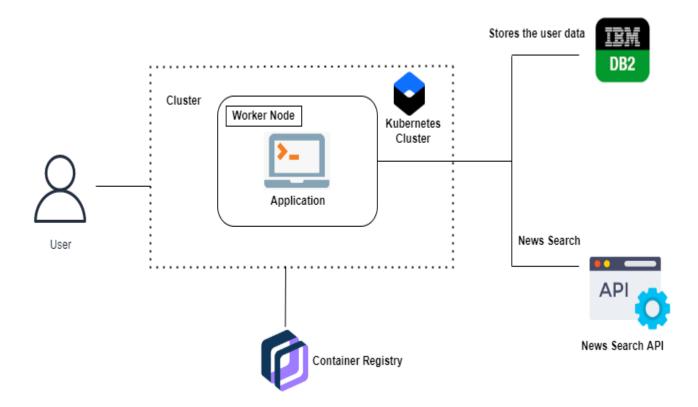
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	15 October 2022
Team ID	PNT2022TMID29977
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.

Diagram:



Project Workflow:

- The user interacts with the application.
- Registers by giving the details.
- Integrate the application with news APIs and store the data in the database.
- The database will have all the details and the user can search the news by using a search bar.

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
•	User Interface	How user interacts with	HTML, CSS, JavaScript /
		application e.g.	Angular Js / React Js
		Web UI, Mobile App, Chatbot	etc.
		etc.	
•	Application Logic-1	Logic for a process in the	Java / Python
		application	
•	Application Logic-2	Logic for a process in the	IBM Watson STT service
	And in time to a single	application	IDNA Maria and American
•	Application Logic-3	Logic for a process in the	IBM Watson Assistant
		application	14 001 11 001
•	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
•	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
			etc.
•	File Storage	File storage requirements	IBM Block Storage or
			Other Storage Service or
			Local Filesystem
•	External API-1	Purpose of External API used	IBM Weather API, etc.
		in the application	
•	External API-2	Purpose of External API used	Aadhar API, etc.
		in the application	
•	Machine Learning Model	Purpose of Machine Learning	Object Recognition
		Model	Model, etc.
•	Infrastructure (Server /	Application Deployment on	Local, Cloud Foundry,
	Cloud)	Local System / Cloud	Kubernetes, etc.
		Local Server Configuration:	
		Cloud Server Configuration:	

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
•	Open-Source Frameworks	List the open-source	Technology of
		frameworks used	Opensource framework
•	Security Implementations	List all the security / access	e.g. SHA-256,

		controls implemented, use of firewalls etc.	Encryptions, IAM Controls, OWASP etc.
•	Scalable Architecture	Justify the scalability of architecture (3 – tier, Microservices)	Technology used
•	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
•	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used