

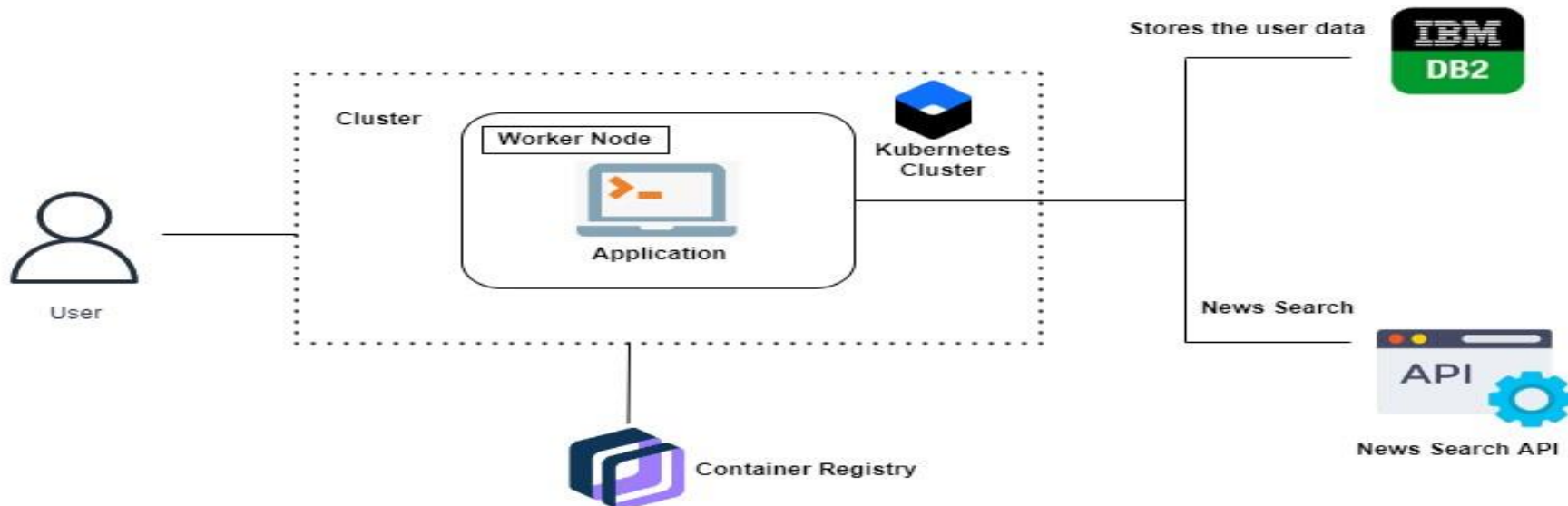
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	20 October 2022
Team ID	PNT2022TMID32793
Project Name	Project – News Tracker Application
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Order processing during pandemics for offline mode



Guidelines:

1. The user interacts with the application.
2. Registers by giving the details.
3. Integrate the application with news APIs and store the data in the database.
4. The database will have all the details and the user can search the news by using a search bar.
5. APIs is used for searching the news faster compare to website.

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
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service

4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloud etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
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:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Software designed to be publicly accessible in the decentralized and collaborative way.	Technology of Opensource framework
2.	Security Implementations	It is used to provide security for the user by providing various technologies. (i.e. signature for text or data files)	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	scalability of architecture (Micro-services)	Cloud, IBM object storage
4.	Availability	Use of cloud makes it available on the go anywhere and any place.	Cloud
5.	Performance	Design consideration is the must because there are numerous app but in what way our app is should be known is mandatory. (speed, number of requests per sec, use of Cache, use of CDN's) etc.	SendGrid