

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

Date	03 October 2022
Team ID	PNT2022TMID27314
Project Name	Project – News tracker application
Maximum Marks	4 Marks

### Technical Architecture:

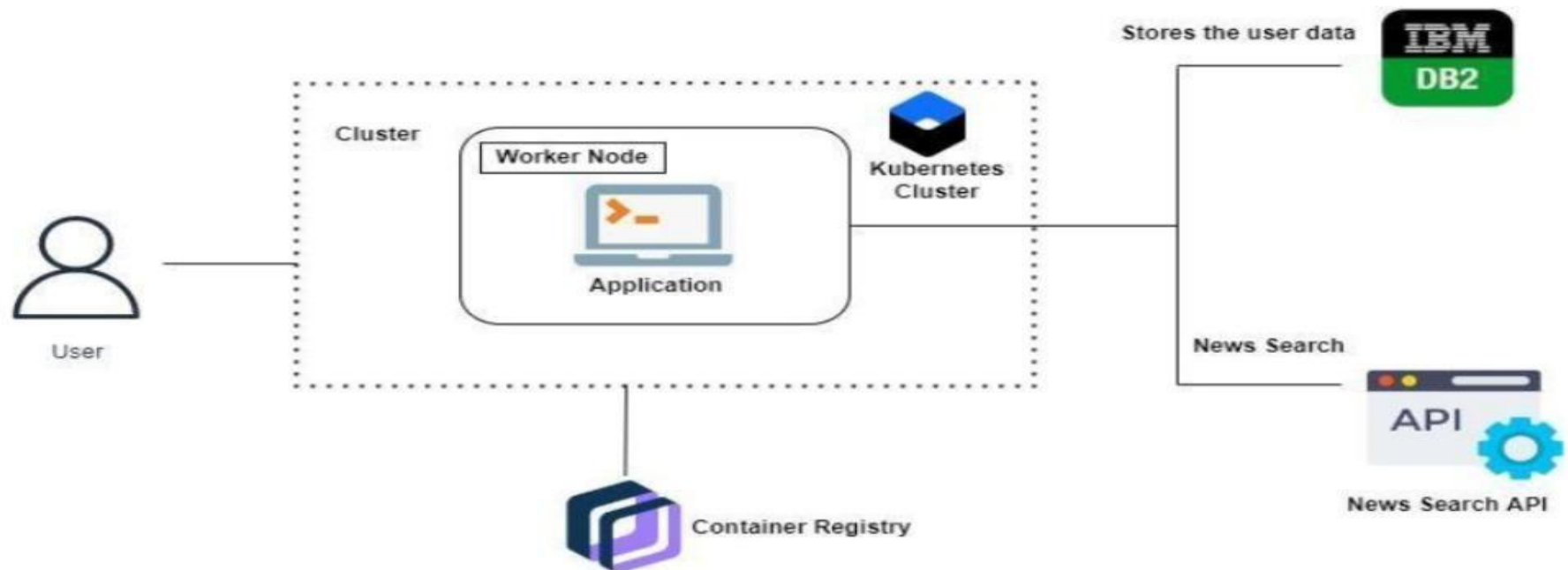


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Front end - Web UI, Mobile App.	HTML, CSS, JavaScript ,React Js,Flutter.
2.	Application Logic-1	Backend	Python Flask.
3.	Application Logic-2	Used to customer service.	IBM Watson Assistant
4.	Database	Database service.	MySQL.
5.	Cloud Database	Stores user data.	IBM DB2.
6.	External API-1	Search the news	Google news API
7.	External API-2	Search the news	Newscatcher API.
8.	Machine Learning Model	Pushing the news based on preference	Object Recognition Model.
9.	Infrastructure (Server / Cloud)	Application Deployment	Cloud registry, Kubernetes,IBM cloud.

**Table-2: Application Characteristics**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technology used
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used

