

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

Date	03 October 2022
Team ID	PNT2022TMID18320
Project Name	Project – News tracker application
Maximum Marks	4 Marks

Technical Architecture:

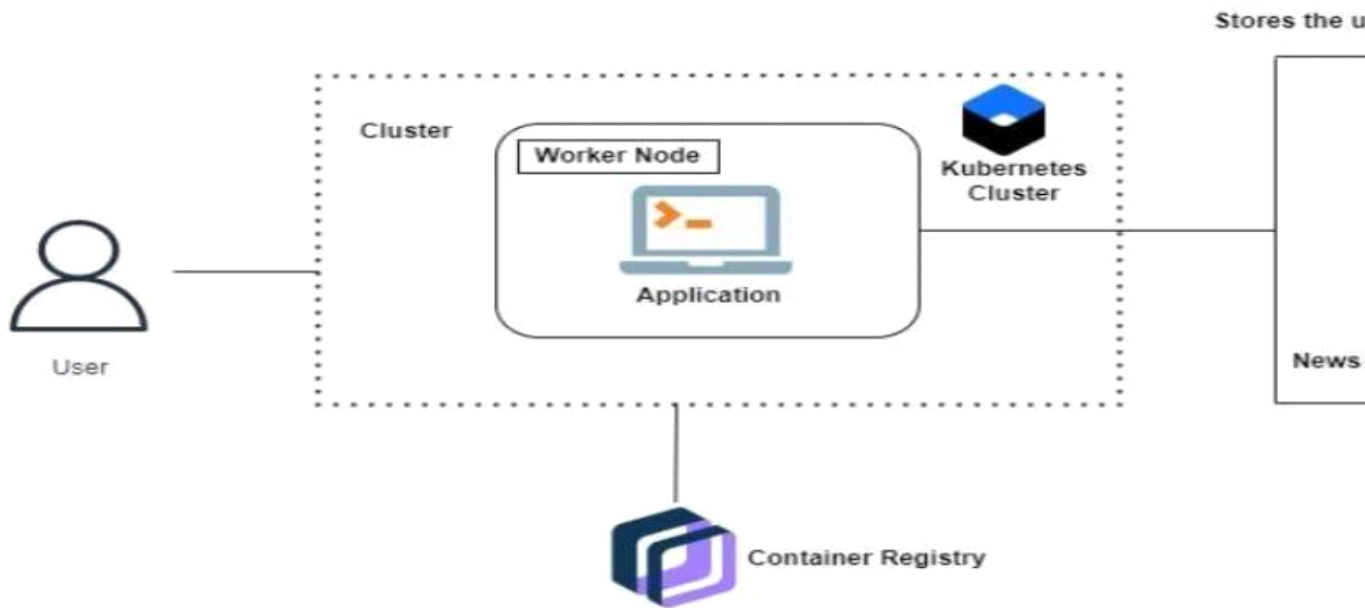


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
•	User Interface	Front end - Web UI, Mobile App.	HTML, CSS, JavaScript ,React Js,Flutter.
•	Application Logic-1	Backend	Python Flask.
•	Application Logic-2	Used to customer service.	IBM Watson Assistant
•	Database	Database service.	MySQL.
•	Cloud Database	Stores user data.	IBM DB2.
•	External API-1	Search the news	Google news API

•	External API-2	Search the news	Newscatcher API.
•	Machine Learning Model	Pushing the news based on preference	Object Recognition Model.
•	Infrastructure (Server / Cloud)	Application Deployment	Cloud registry, Kubernetes, IBM cloud.

Table-2: Application Characteristics

S.No	Characteristics	Description	Technology
•	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
•	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
•	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	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