Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	12 October 2022
Team ID	PNT2022TMID43386
Project Name	News Tracker Application
Maximum Marks	4 Marks

Technical Architecture:
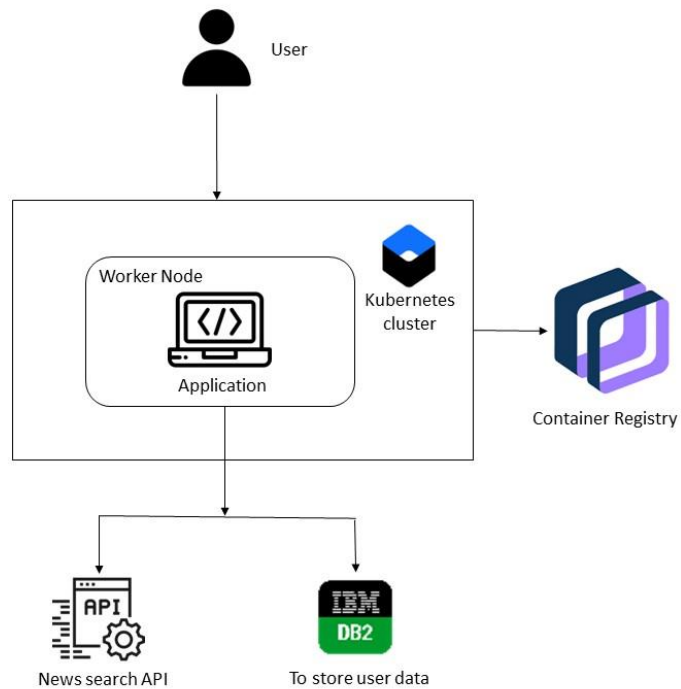
Components and Requirements:

S.No	Component	Description	Technology
1.	User Interface	This is how user interacts with the application.	HTML, CSS, JavaScript / React Js etc.
2.	Application Logic-1	This is the login process for the application.	Python Flask
3.	Application Logic-2	This is the login process for the application.	IBM Watson Assistant
4.	Application Logic-3	This is the login process for the application.	Java/Python
5.	Database	This is to store and update the news in a database.	MySQL,NOSQL,etc.
6.	Cloud Database	This is to store user data in the cloud.	IBM DB2
7.	File Storage	Files uploaded by the user are stored.	IBM Object Storage
8.	External API	This is an external API used in the application.	IBM Weather API,etc.
9.	External API	This is an external API used in the application.	News search API
10.	External API	This is an external API used in the application.	Rapid API
11.	Infrastructure (Server / Cloud)	This is the deployment of application on local system / cloud.	Cloud Foundry,Local, Kubernetes,etc.

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is a free, high-level, open-source web framework that develop web applications easily	Python-Flask, Docker Django
2.	Security Implementations	Container registries store multiple repositories of container images, as well as storing API paths and access control rules.	Container registry, Kubernetes Cluster
3.	Scalable Architecture	News Tracker is associate-economic access because helps to know about the daily activity of the world.	Container registry, Kubernetes Cluster
4.	Availability	This application will be available to the all the user who are using this application.	Container registry, Kubernetes Cluster