

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

Date	17 October 2022
Team ID	PNT2022TMID33422
Project Name	News Tracker Application
Maximum Marks	4 marks

TECHNICAL ARCHITECTURE

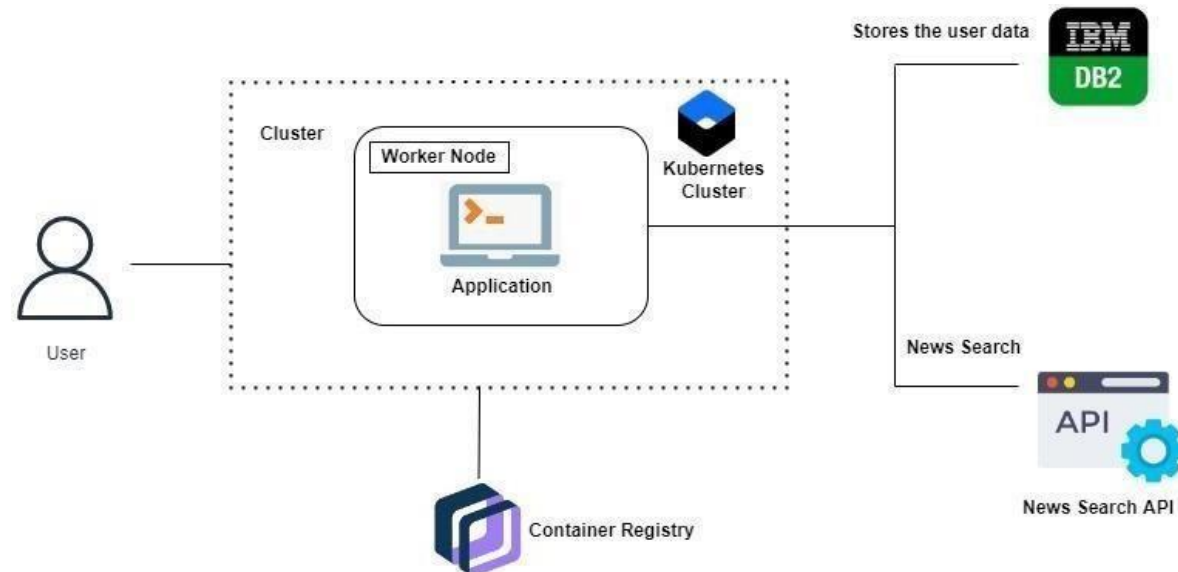


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Client associates no sweat of purpose and most helpful climate with least exertion on client to get greatest exertion	HTML, CSS, JavaScript
2.	Application Logic-1	This application starts with login page where user sign up or sign in web application	Java / Python
3.	Application Logic-2	User enters personal data to update their Account profile where IBM watson stt service used to convert audio to text that is user can fill their detail by voice assistance	IBM Watson STT service
4.	Application Logic-3	Client can see news content in view of dates and where chatbot is utilized there to channel content	IBM Watson Assistant
5.	Database	User data gets stored in database for lateral purposes	MySQL
6.	Cloud Database	Here Data set Assistance are utilized in IBM DB2 .Utilizing this clients can get to every one of the information put away in cloud through network from any open gadget	IBM DB2, IBM Cloudant
7.	File Storage	Users personal data and last visited news content are get stored in IBM block storage	IBM Block Storage
8.	External API-1	Application used IBM Weather to get exact weather report as it is one of the mandatory news content	IBM Weather API
9.	Infrastructure (Cloud)	Application Deployment on Cloud for faster and flexible performance over the internet	AWS Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Here this application is light weight application using flask (python) as a backend development	Flask(Python)
2.	Security Implementations	Application contains client individual data, login certifications, exchange subtleties are secured also, kept private involving information assurance in IBM cloud	IAM in IBM cloud
3.	Scalable Architecture	Here application runs 24/7 as it is scalable where size is everything. so flask is used to perform web application quickly	Flask(Python)
4.	Availability	Application functions properly and will justified requirements .It can be accessible anytime	Technology used – Nginx, HaProxy, Avi Vantage Software Load Balancer
5.	Performance	Application trace every request and building blocks efficiently for better performance	CPU Usage, Memory Usage, Latency and Up-Time