

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

Date	03 October 2022
Team ID	PNT2022TMID22947
Project Name	Project – News Tracker Application
Maximum Marks	4 Marks

Technical Architecture:

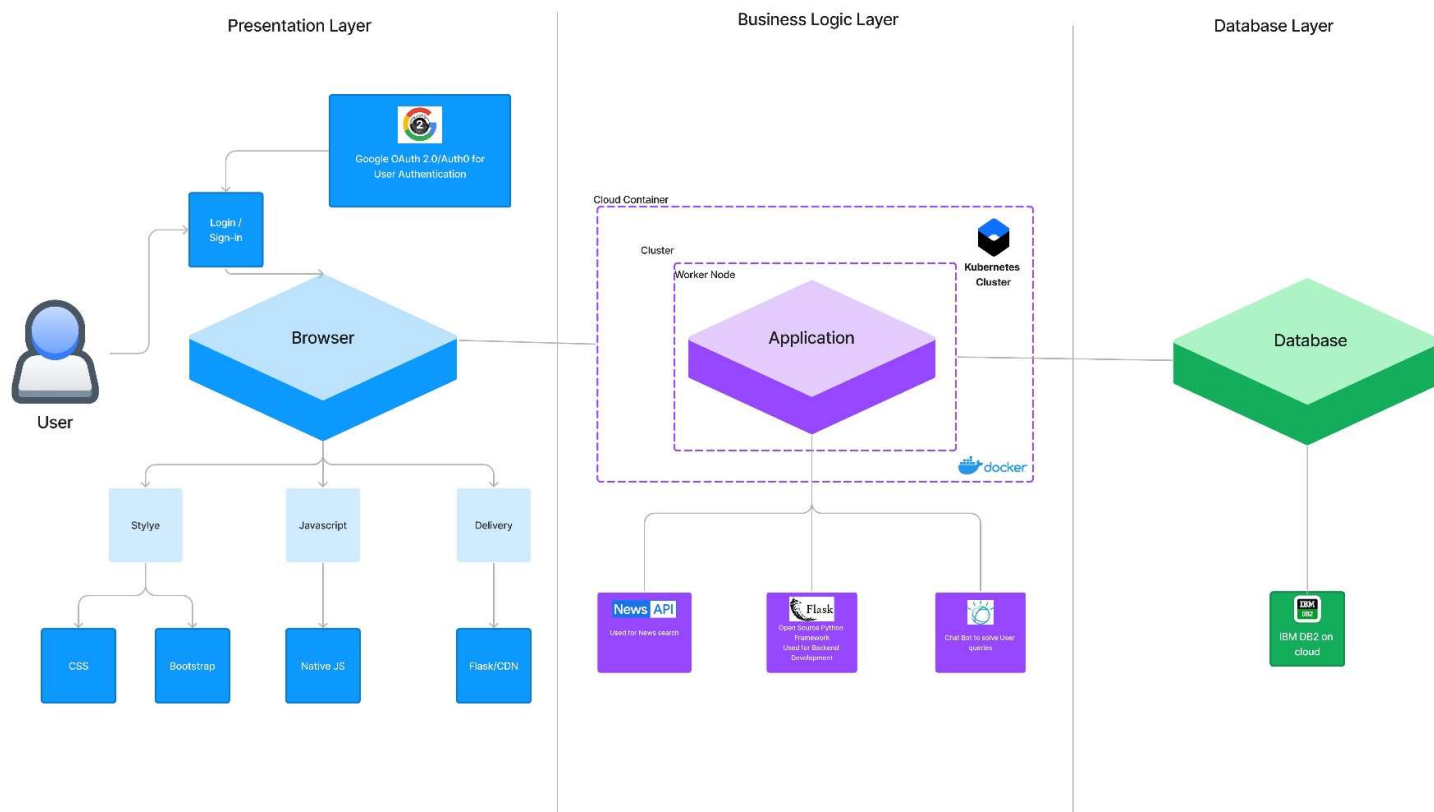


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The User interact with application through Web UI	HTML, CSS, JavaScript, Bootstrap
2.	Backend Technology	A framework to support backend work for the application	Python Flask
3.	Chatbot	A chatbot to resolve the issues of queriesand FAQ	IBM Watson Assistant
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	NewsAPI	To Retrieve all categories of news from API	NewsAPI - Python
6.	Auth0	Authenticate user login	Auth0 - Python
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / CloudLocal Server Configuration, Cloud Server Configuration	Cloud Foundry, Kubernetes, Docker.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	<ul style="list-style-type: none">▪ Flask▪ NewsAPI	Python
2.	Security Implementations	Encryption – Auth0	SHA-256
3.	Scalable Architecture	3 – Tier Architecture, 10,000 users should be able to use the application	IBM Cloud
4.	Availability	The application should be up 99% of the time.	IBM Cloud
5.	Performance	The application should handle 1000 requests persecond and 3-4 seconds to load the home page with the news.	IBM Cloud