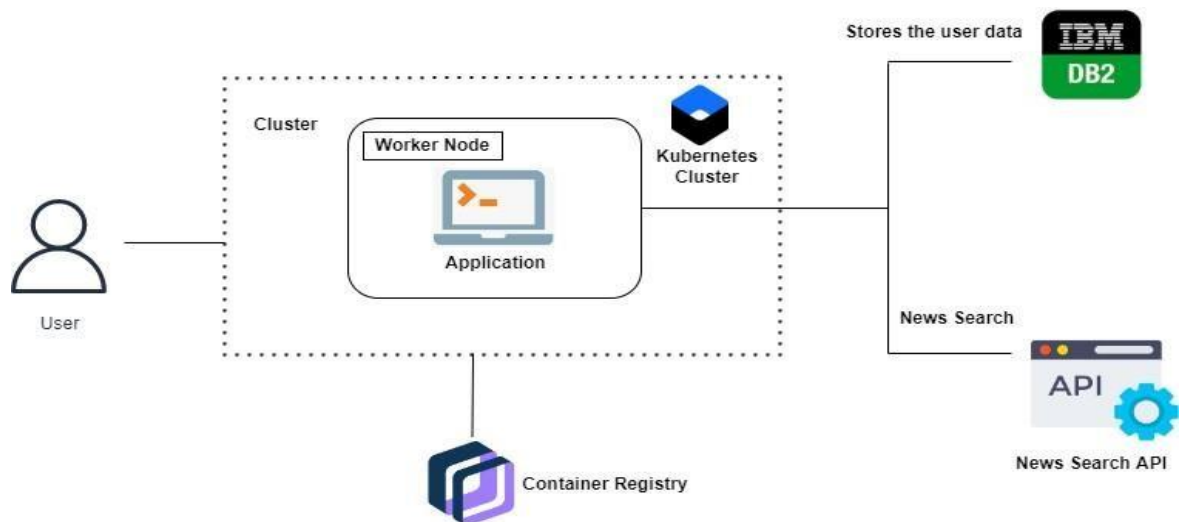


## Project Design Phase-II

### Technology Stack (Architecture & Stack)

|               |                          |
|---------------|--------------------------|
| Date          | 31 October 2022          |
| Team ID       | PNT2022TMID22591         |
| Project Name  | News Tracker Application |
| Maximum Marks | 4 Marks                  |

#### Technical Architecture:



**Table 1: Components & Technologies:**

| S.No | Component              | Description   | Technology   |
|------|------------------------|---|--|
| 1.   | User Interface         | The user can interact with the application to know about the trending news                            | HTML,CSS,<br>JavaScript/<br>Angular Js/ React<br>Js etc. |
| 2.   | Application<br>Logic-1 | The application contains this resource gives you basic understanding of Flask                         | Flask  |
| 3.   | Application<br>Logic-2 | The application contains the news sub-division like geographical news, economic news and society news | IBM Watson STT service                                   |
| 4.   | Application<br>Logic-3 | The user can view the growth of the economy in industry through graph                                 | IBM Watson Assistant                                     |
| 5.   | Database               | Updation of trending news are stored in the MySQL database  | MySQL, NoSQL, etc.                                       |
| 6.   | Cloud<br>Database      | With the use of cloud, media coverage issue cannot be occurred  | IBM DB2, IBM Cloudant etc.                               |

**Table 2: Application Characteristics:**

| S.No | Characteristics          | Description   | Technology                              |
|------|--------------------------|---|---|
| 1.   | Open-Source Frameworks   | Flask is flexible and doesn't require to use any particular project or code layout used in this application | Python-Flask                            |
| 2.   | Security Implementations | This can be access only by the journalist. So, It is a high Security  | Container Registry, Kubernetes Cluster. |
| 3.   | Scalable Architecture    | News Tracker is a socio-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. |
| 5.   | Performance              | The updation of trending news occurs without any interruption. So, it performance is good                   | Kubernetes Cluster.                     |

**References:**

<https://github.com/IBM-EPBL/Assignments-CApD/tree/main>

<https://ieeexplore.ieee.org/document/5616930>

<https://ieeexplore.ieee.org/document/1565880>

<https://ieeexplore.ieee.org/document/8703401>