

Project Design Phase-2

Technology Architecture (Architecture & Stack)

| | |
|---------------|--------------------------|
| Date | 28 October 2022 |
| Team ID | PNT2022TMID04885 |
| Project Name | NEWS TRACKER APPLICATION |
| Maximum Marks | 4 Marks |

Technical Architecture:

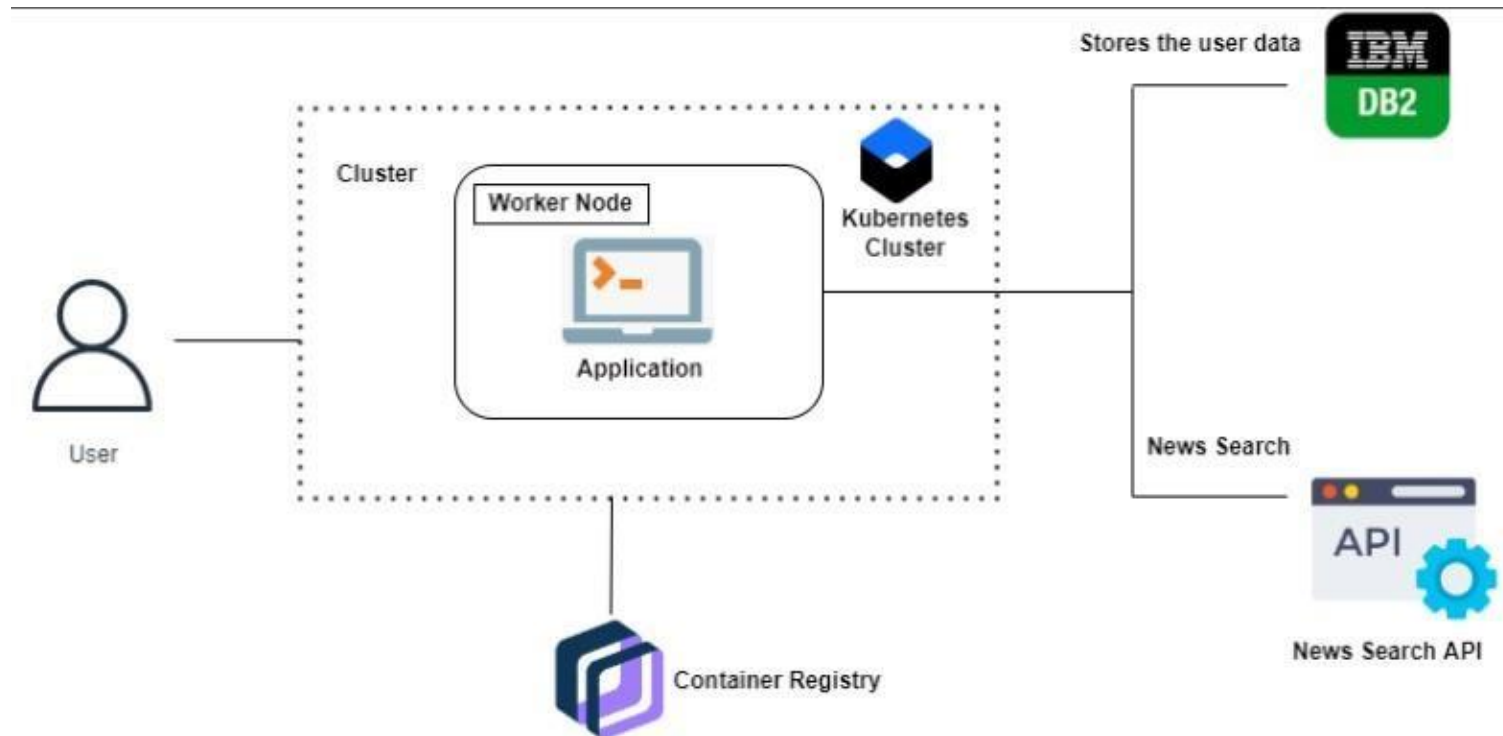


Table-1: Components and Technologies:

| S. No | Component | Description | Technology |
|-------|---------------------|--|---------------------------------|
| 1. | User Interface | How user interacts with application, Ex. Mobile App, Chatbot | HTML, CSS, Python, MySQL, Flask |
| 2. | Application Logic-1 | Logic for a process in the application | Python |
| 3. | Application Logic-2 | Logic for a process in the application | SendGrid |
| 4. | Application Logic-3 | Logic for a process in the application | IBM Watson Application |
| 5. | Database | Data Type, Configuration etc. | MySQL |
| 6. | Cloud Database | Database Service on Cloud | IBM DB2, IBM Cloud |
| 7. | File Storage | File storage requirements | IBM Object Storage |

Table-2: Application characteristics:

| S. No | Characteristics | Description | Technology |
|-------|-------------------------|---|-----------------------|
| 1. | Open-source frameworks | Microweb framework written in Python | Flask |
| 2. | Security implementation | A set of cryptographic hash functions | SHA-256 |
| 3. | Scalable Architecture | Kubernetes is a open source container orchestration system and management. | Kubernetes |
| 4. | Availability | To customize settings for the docker CLI. The configuration file uses JSON formatting. | Docker CLI |
| 5. | Performance | The performance will be high because there will be no network traffics in the application | Kubernetes is cluster |

