

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

Date	15 October 2022
Team ID	PNT2022TMID43362
Project Name	Project – Skill/Job Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

Guidelines:

1. Every process must be included as a part of application logic or technology block
2. Establish infrastructure boundaries (local / cloud)
3. Identify external interfaces (such as third-party APIs).
4. List the components and services for data storage.
5. Describe the machine learning model interface (if applicable)

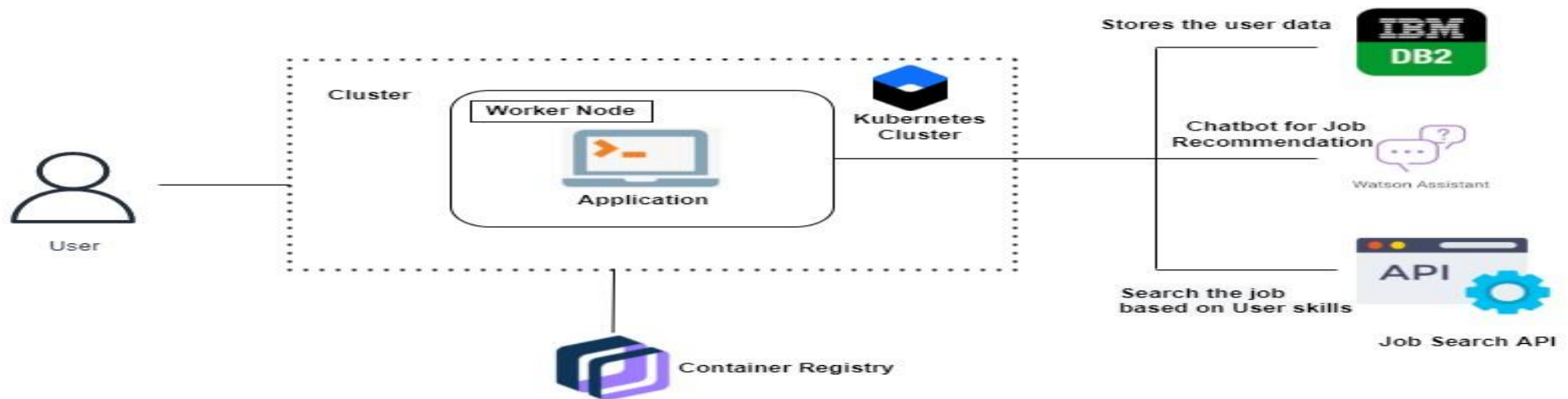


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Experience	Interaction between user and application	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Creating an Interface	Making an application for the job	Java / Python
3.	Voice Support	Using voice commands rather than typing.	IBM Watson STT service
4.	Chatbot Support	Conversational Interface	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Online Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	Keeping Files	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

8.	Machine Learning Model	Usage of Machine Learning Model	Object Recognition Model, etc.
9.	Infrastructure	Application Deployment on Local System / Cloud : Local Server Configuration Cloud Server Configuration	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Describe the utilised open-source frameworks	Technology of Opensource framework
2.	Security Implementations	List every security and access control measure used, including firewalls.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the architecture's ability to scale (3 – tier, Microservices)	Artificial Intelligence (AI)
4.	Availability	Justify the application's availability	RAID(redundant array of independent disks)
5.	Performance	Application performance (number of requests per second, use of Cache, use of CDNs, etc.) was taken into account during design.	DRAM or flash memory