

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID43310
Project Name	Skills / Job Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

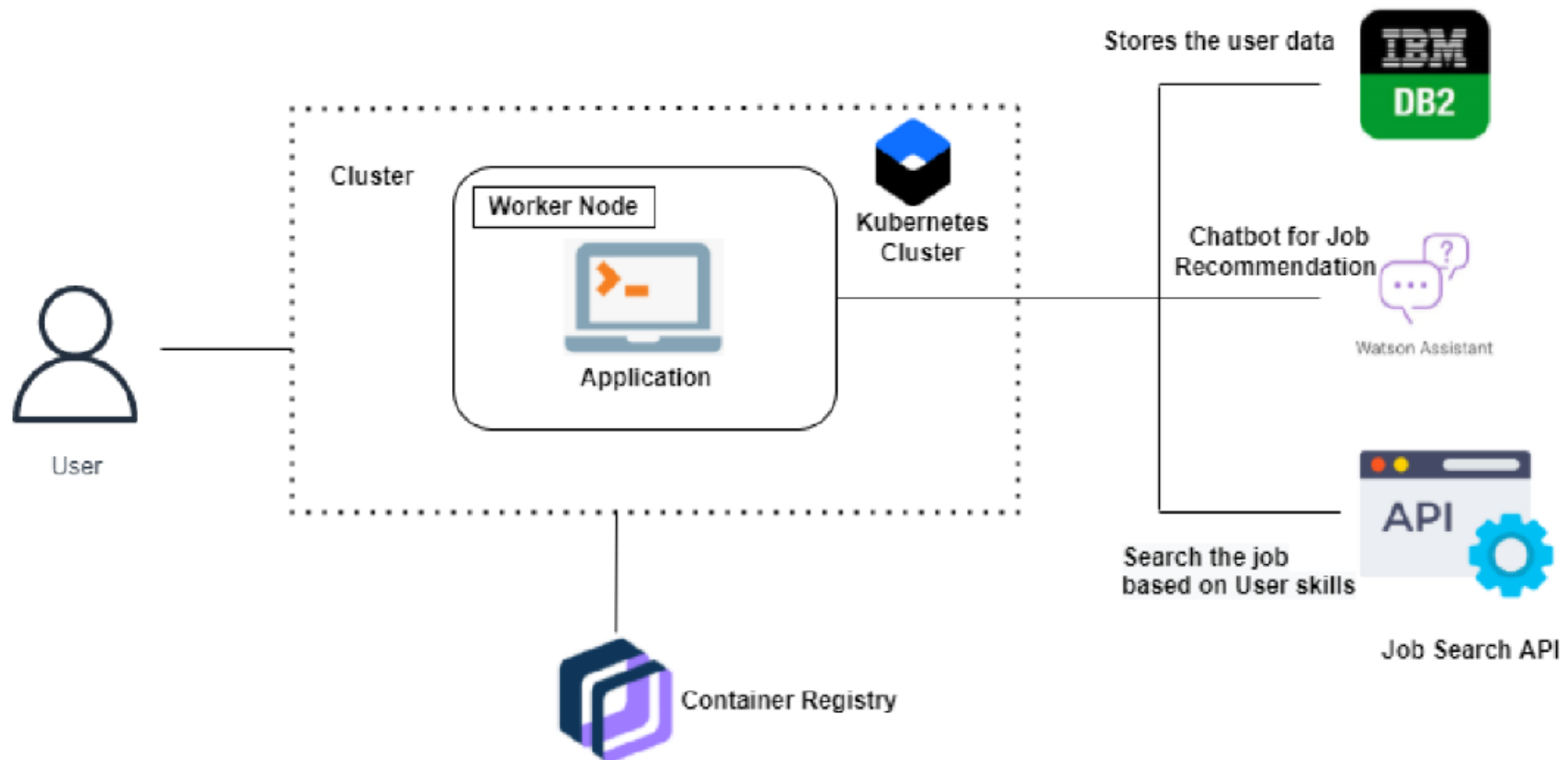


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user can interact with application with the help of chatbot and Web UI etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Developing Interface	Developing Application for the task	JavaScript
3.	Voice Assistance	Voice commands instead of typing	IBM Watson STT service
4.	Chatbot Assistance	Conversational Interface	IBM Watson Assistant
5.	Cloud Database	The user data will be stored and retrieves using this database	IBM DB2, IBM Cloudant etc.
6.	File Storage	The user documents like photos, resumes will be stored in Cloud Bucket	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	With the help of the API, the user can search the job based on their skillset	IBM Weather API, etc.
8.	Infrastructure (Server / Cloud)	The application will be deployed on the Local System / Cloud	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Job search API is used to fetch the jobs and display it to the user and Watson Assistant is used for the chatbot interaction	Job search API, Watson Assistant
2.	Scalable Architecture	With user choice the application responds much faster	Python Flask
3.	Availability	The application offers jobs and skills sets tailored to the user's preferences	Python Flask
4.	Performance	The application's performance results in quicker responses to job seeker searches based on cache	Python Flask