

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

Date	19 October 2022
Team ID	PNT2022TMID22014
Project Name	Project – Skill and Job Recommender
Maximum Marks	4 Marks

Technical Architecture:

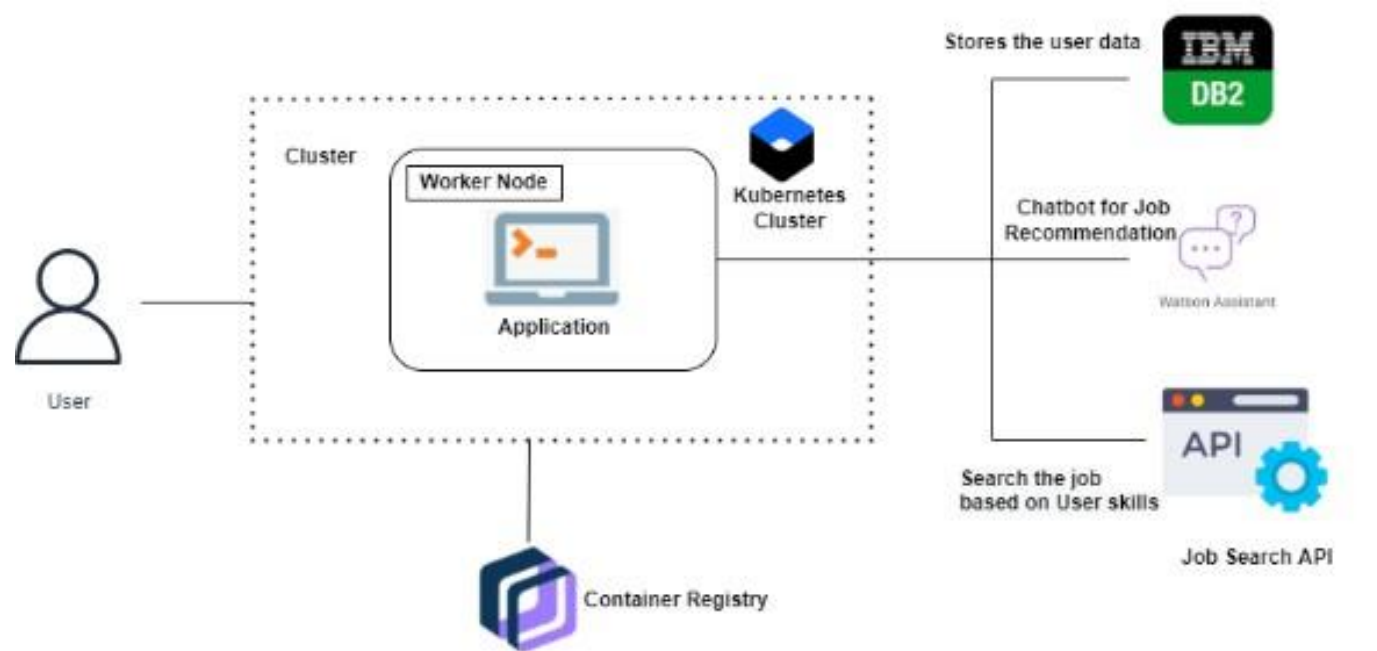


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application (Web UI and Chatbot)	HTML, CSS, Bootstrap, Materialized CSS, jQuery, JavaScript, Figma.
2.	Application Logic-1	User can login after creating an account and search for jobs based on their skill set.	Python
3.	Application Logic-2	Users can make use of chatbot to get job and skill recommendations	IBM Watson Assistant
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
5.	File Storage	File storage requirements	IBM Object Storage
6.	External API-1	Purpose of External API used in the application	IBM Job Search API
7.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	IBM Container Registry, Docker, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description
1.	Security Implementations	List all the security / access controls implemented (SHA256)
2.	Scalable Architecture	It follows highly scalable technologies that allows application to handle increase in large user data's, workload and perform any operation without any problem.
3.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)
4.	Modifiable	It is highly Modifiable and Maintenance requires low cost, compared to other application