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

Date	03 October 2022
Team ID	PNT2022TMID22144
Project Name	Skill based Job recommender
Maximum Marks	4 Marks

Technical Architecture:
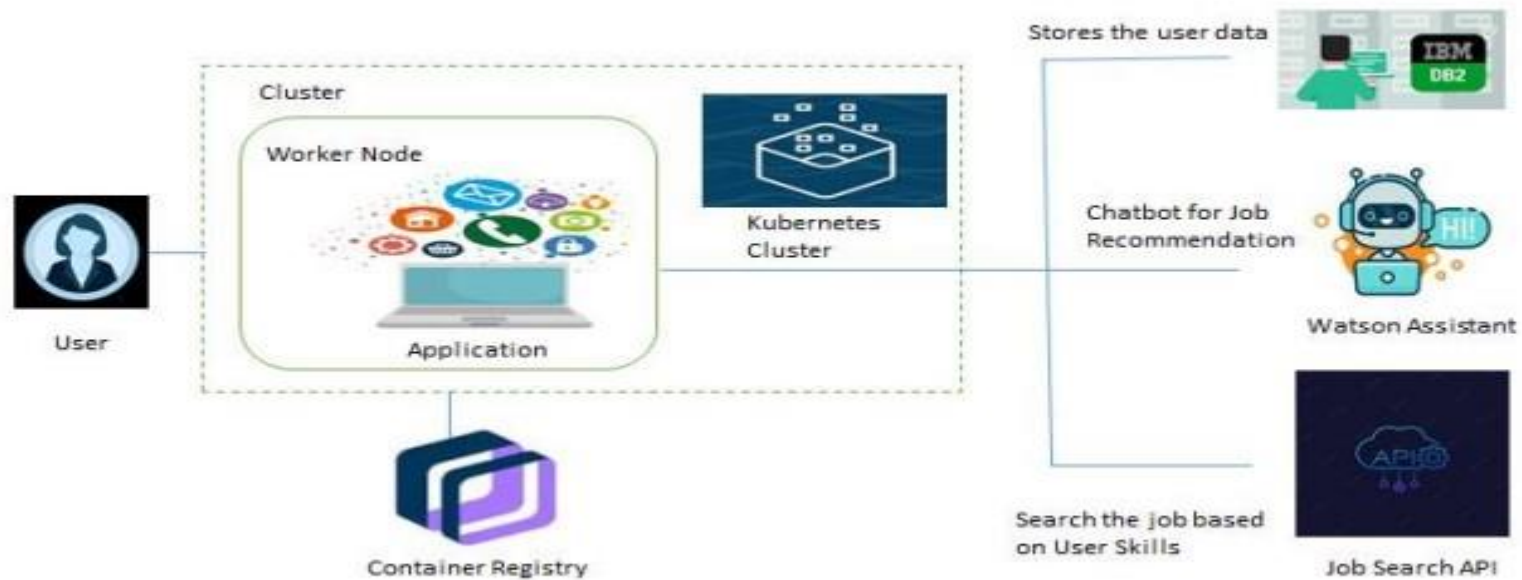
Table-1 : Components & Technologies:

S.No	Component	Technology	Description
1.	User Interface	HTML, CSS	User's get interacted via Chatbot.
2.	Application Logic-1	Python	The user can find the job by applying in chatbot that shows skill from the IBM Watson.
3.	Application Logic-2	IBM Watson service	We have used IBM Watson service for building the job application.
4.	Application Logic-3	IBM Watson Assistant	If there is any lag the user can get immediate solution from the assistant.
5.	Database	MySQL	To collect the data's MySQL database is used.
6.	Cloud Database	IBM DB2	Data's are stored in Cloud Database service.
7.	File Storage	IBM Block Storage or Other StorageService or Local Filesystem	The data's which are collected is stored in Docker container.
8.	External API-1	Job search API	Based on the skills the user will get the job
9.	Infrastructure (Server / Cloud)	Local, Cloud Foundry, Kubernetes, etc.	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :

Table-2: Application Characteristics:

S.No	Characteristics	Technology	Description
1.	Open-Source Frameworks	Job Search API	Describe the utilized open-source framework
2.	Security Implementations	Two step authentications(Password and OTP)	It lists all the security and access control measure used,including firewalls.
3.	Availability	IBM Watson, IBM DB2	Kubernets is used for the load balancer.
4.	Performance	IBM Watson, IBM DB2	As we haves used Docker Container to run this source Kubernets are used as a platform.