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

Date	19 October 2022
Team ID	PNT2022TMID24276
Project Name	JOB AND SKILL RECOMMENDER
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
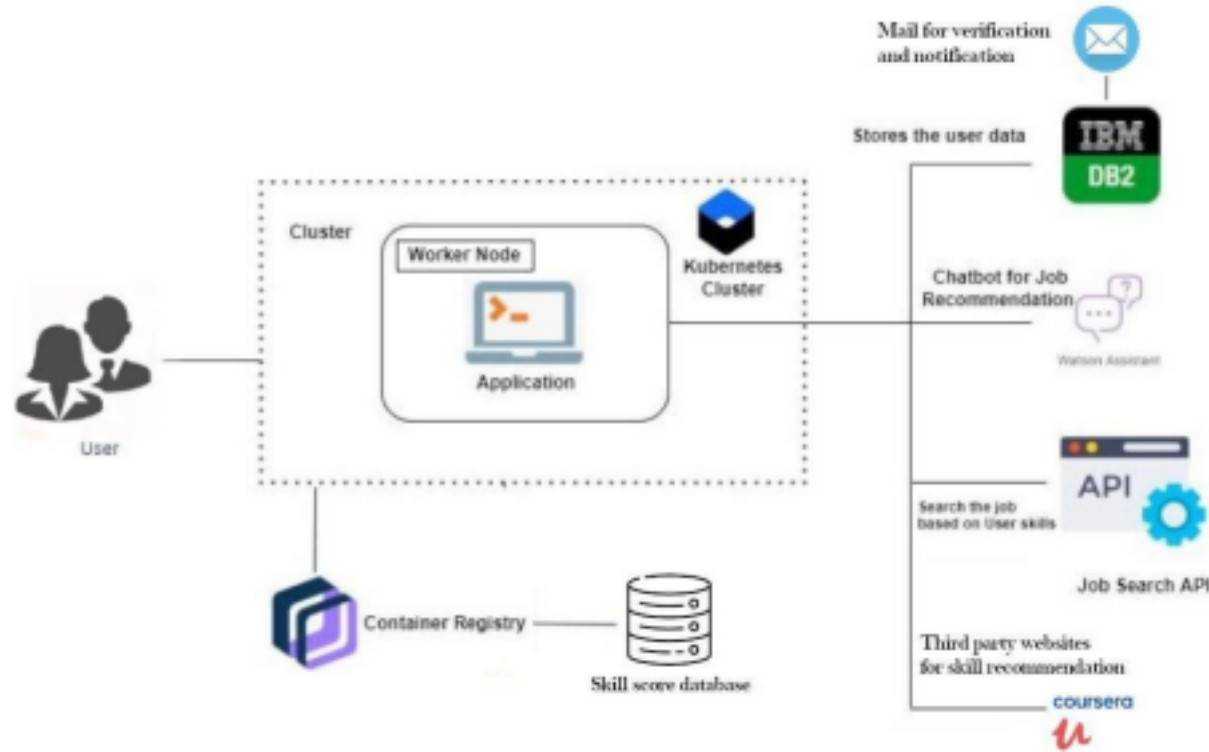
Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user can interact with our application with the help of Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	The user should pre-register in our web app in order to login.	Java / Python
3.	Application Logic-2	Logic for a process in the application.	IBM Watson STT service

4.	Database	The datatype used in our application.	MySQL, NoSQL, etc.
5.	Cloud Database	The user's data will be stored in the database	IBM DB2, IBM Cloudant etc.
6.	File Storage	The user's extra documents like resume, identification card and other personal details will be stored in cloud bucket.	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API 1	The user can search the jobs based on the skills with the help of API.	IBM Weather API, etc.
8.	External API 2	Purpose of External API used in the application.	Aadhar API, etc.
9.	Machine Learning Model	Importance of using Machine learning.	Object Recognition Model, etc.
10. Infrastructure (Server / Cloud)		Application Deployment on Local System / Cloud	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Kubernetes	IBM cloud Kubernetes service
2.	Security Implementations	Security control - username, password, other personal details	Encryption

3.	Scalable Architecture	Improved horizontal scalability	3 tier architecture
4.	Availability	Use of load balancers	Kubernetes
5.	Performance	No. of users per sec = 4	Collaborative filtering