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

Date	20 October 2022
Team ID	PNT2022TMID25938
Team Name	DareDevils
Project Name	Skill/Job Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

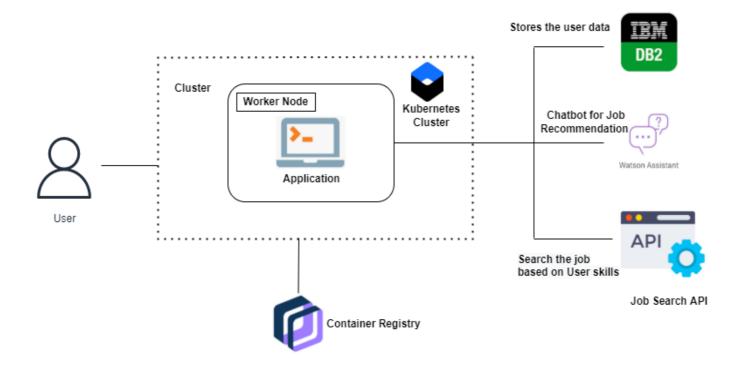The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript , Flask, Python
2.	Application Logic-1	Logic for a process in the application	Python or Java
3.	Chatbot	To provide job recommendation and to solve user queries related to job	IBM Watson Assistance
4.	Cloud Database	To store user data and job related data	IBM DB2.
5.	File Storage	To store user data like resumes and job posts	IBM Cloud Object Storage
6.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
7.	External API-2	Purpose of External API used in the application	Job Search API
8.	Cloud Server	To Deploy the application	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	HTML, CSS, Javascript, Flask, Kubernetes, Docker
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	IBM DB2 IBM Cloud Object Storage
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Kubernetes IBM DB2
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Kubernetes

S.No	Characteristics	Description	Technology
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Kubernetes