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

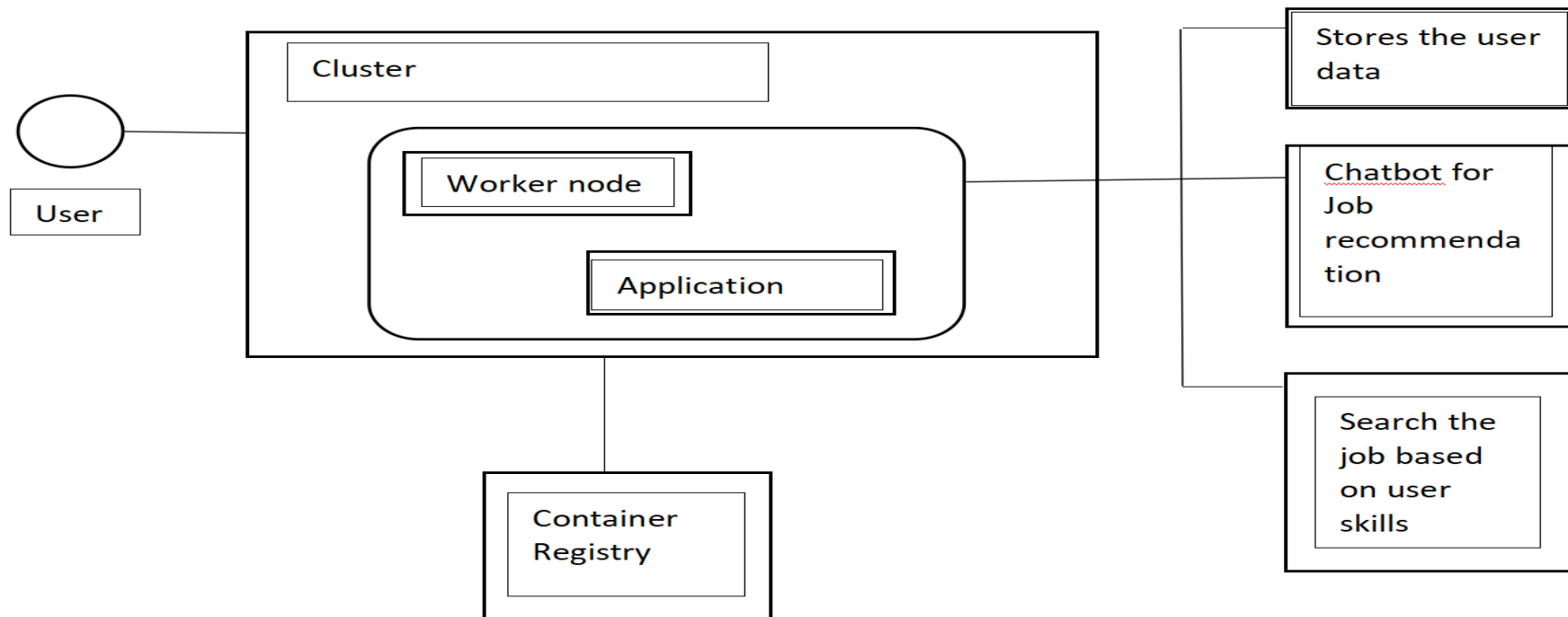| Date	03 October 2022
Team ID	PNT2022TMID25506
Project Name	Project - Skill / Job Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with application Mobile App/Desktop , Chatbot to know the job openings.	HTML, CSS, JavaScript / React Js etc.
2.	Application Logic-1	Better comprehension of python	Python (flask)
3.	Application Logic-2	This provides various job openings based on current job openings and user skill set	IBM Watson STT service , Kubernetes
4.	Application Logic-3	Chatbot interaction for better results in searching of accurate skill based job openings	IBM Watson Assistant
5.	Database	Stores the data of the user .	MySQL, NoSQL, etc.
6.	Cloud Database	Stores the data of the user	IBM DB2, IBM Cloudant etc.
7.	File Storage	Storage of user's private resume/CV	Container Registry
8.	External API-1	Provides the information of job openings based on user skills	Job search API
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is a web framework , it provides tools, libraries and technologies used allows to build a web application	Python(Flask)
2.	Security Implementations	access controls - can be accessed only by the verified users	Container Registry, Kubernetes Cluster
3.	Scalable Architecture	Skill/Job recommender application provides up to date job openings	Container Registry, Kubernetes Cluster
4.	Availability	This application will be accessible for both the job seekers and online recruiters	Container Registry, Kubernetes Cluster
5.	Performance	Up to date accurate information of current job openings based on user search	Kubernetes Cluster