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

Date	29 October 2022
Team ID	PNT2022TMID14990
Project Name	Skill and Job Recommender
Maximum Marks	4 Marks

Technical Architecture:
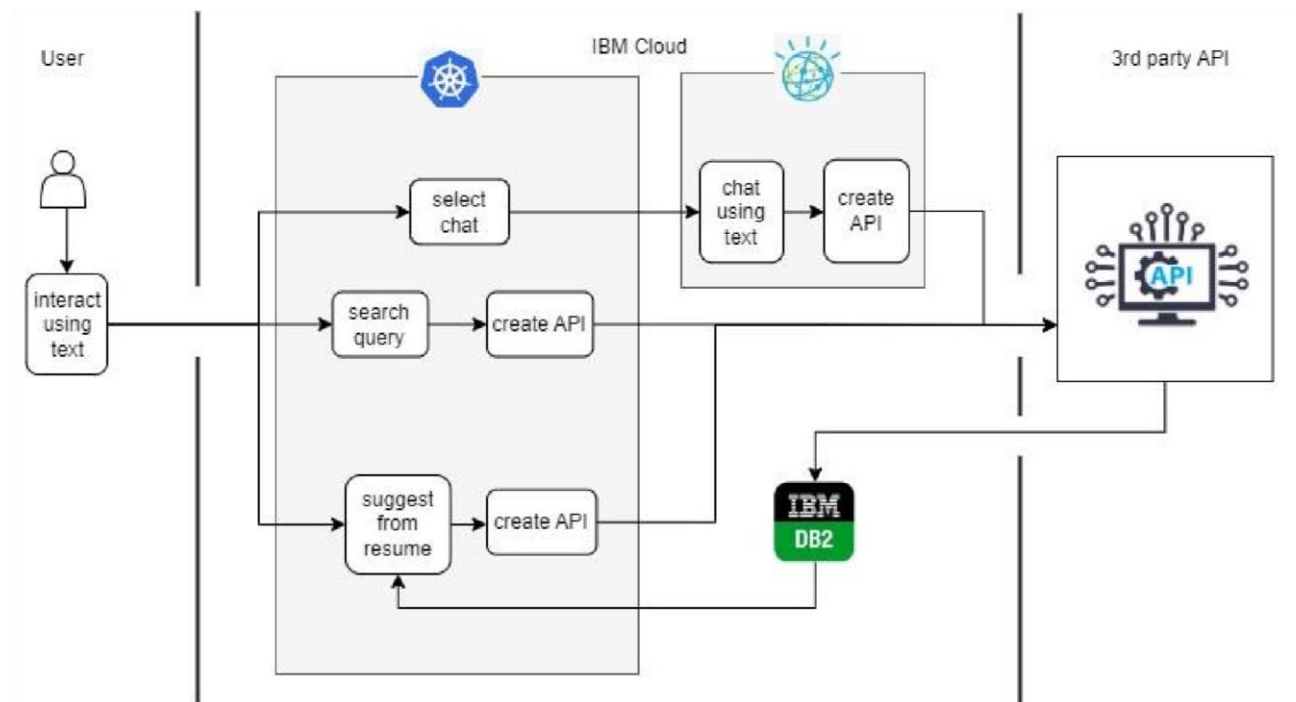
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Chatbot ,Mobile appetc.	HTML, CSS, JavaScript, Flask ,Python
2.	Application Logic-1	Using Search Query	Flask
3.	Application Logic-2	Using chatbot	IBM Chatbot Assistant
4.	Application Logic-3	Using app(sign in sign up)	Flask ,Python
5.	Database	Data Type, Configurations etc.	NoSQL.
6.	Cloud Database	Database Service on Cloud	IBM DB2.
7.	File Storage	File storage requirements	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	Job recommender API
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask, IBM Cloud ,Kubernetes
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256, Encryptions, IAM Controls, OWASP
3.	Scalable Architecture	scalability of architecture in the project	Kubernetes
4.	Availability	availability of application for the project	Kubernetes

5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc. How much internet is used efficiently without any network errors	IBM Cloud APM