

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

Date	12 November 2022
Team ID	PNT2022TMID26531
Project Name	Project – Skill and Job Recommender
Maximum Marks	4 Marks

Technical Architecture:

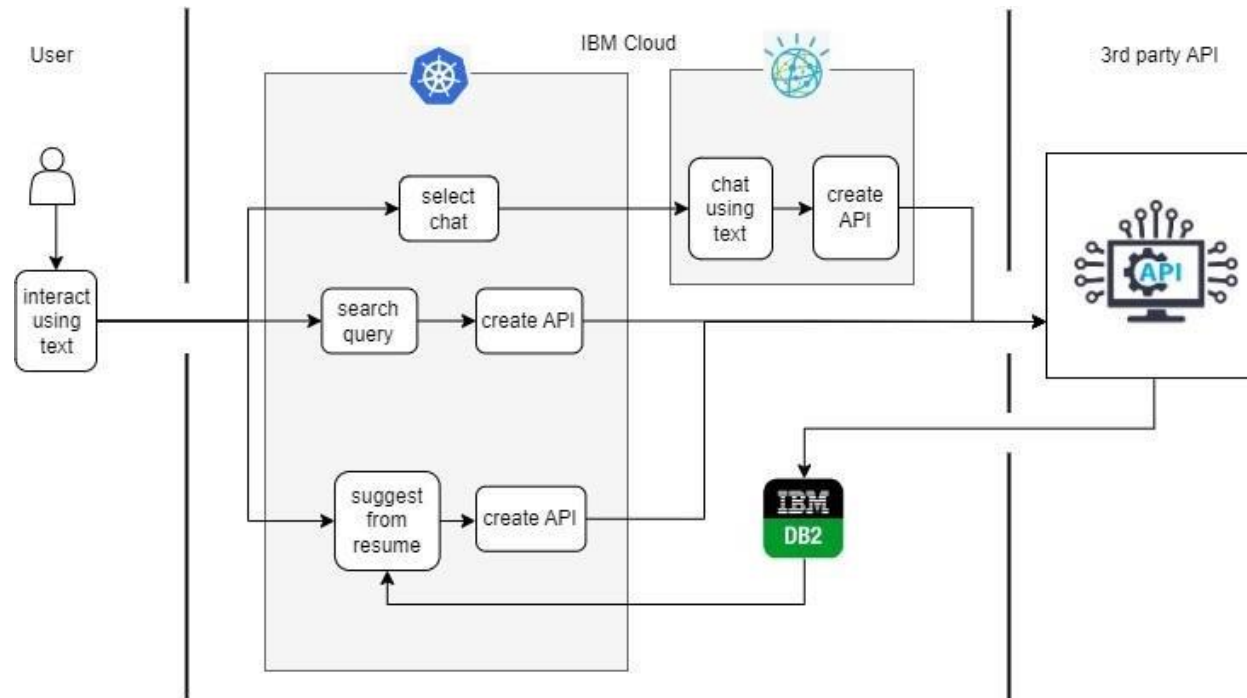


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript, Flask
2.	Application Logic-1	Using ChatBot	IBM Watson Assistant
3.	Application Logic-2	Using Search query	Flask
4.	Application Logic-3	Using Resume uploaded	Flask
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
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	Kubernetes
4.	Availability	availability of application	Kubernetes
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	IBM Cloud APM