Project Design Phase-II Technology Stack

(Architecture & Stack)

Date	25 October 2022
Team ID	PNT2022TMID32090
Project Name	Skill/ Job Recommender System
Maximum Marks	4 Marks

TECHNICAL ARCHITECTURE:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
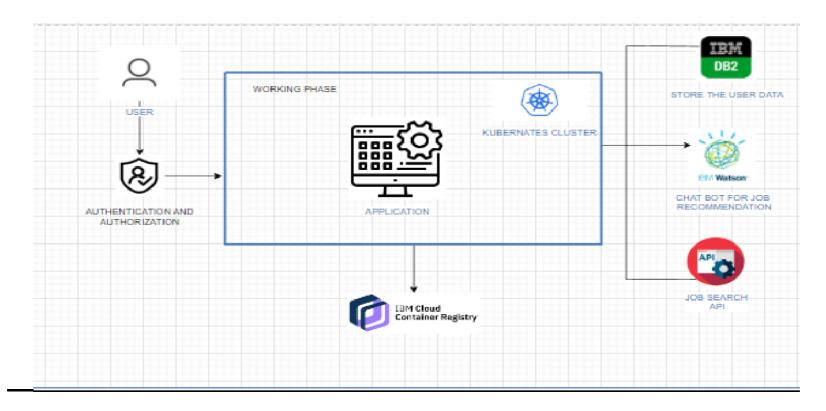
SKILL AND JOB RECOMMENDER APPLICATION

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, Java script, flask etc.
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL (Mangodb), etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, etc.
7.	File Storage	File storage requirements	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	IBM Application programming interface, etc.
9.	Post image	Purpose of image posting	CLI etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / CloudLocal Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python opensource framework -FLASK.
2.	Security Implementations	List all the security, use of firewalls etc.	SHA-256, Encryptions, OWASP etc.
3.	Scalable Architecture	the scalability of architecture	IBM cloud

S. No	Characteristics	Description	Technology
4.	Availability	Justify the availability of application (e.g. use ofload balancers, distributed servers etc.)	Technology used IBM DB2, kubernate
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Technology used sendgrid, IBM container Registry,

References:

https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/

https://www.ibm.com/cloud/architecture

https://aws.amazon.com/architecture

https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d