PROJECT DESIGN PHASE-II

TECHNOLOGY ARCHITECTURE

DATE	20 OCTOBER 2022
TEAM ID	PNT2022TMID02811
PROJECT NAME	PROJECT – SKILL/JOB RECOMMENDER APPLICATION
MAXIMUM MARKS	4 MARKS

Technical Architecture:

Guidelines:
1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2.
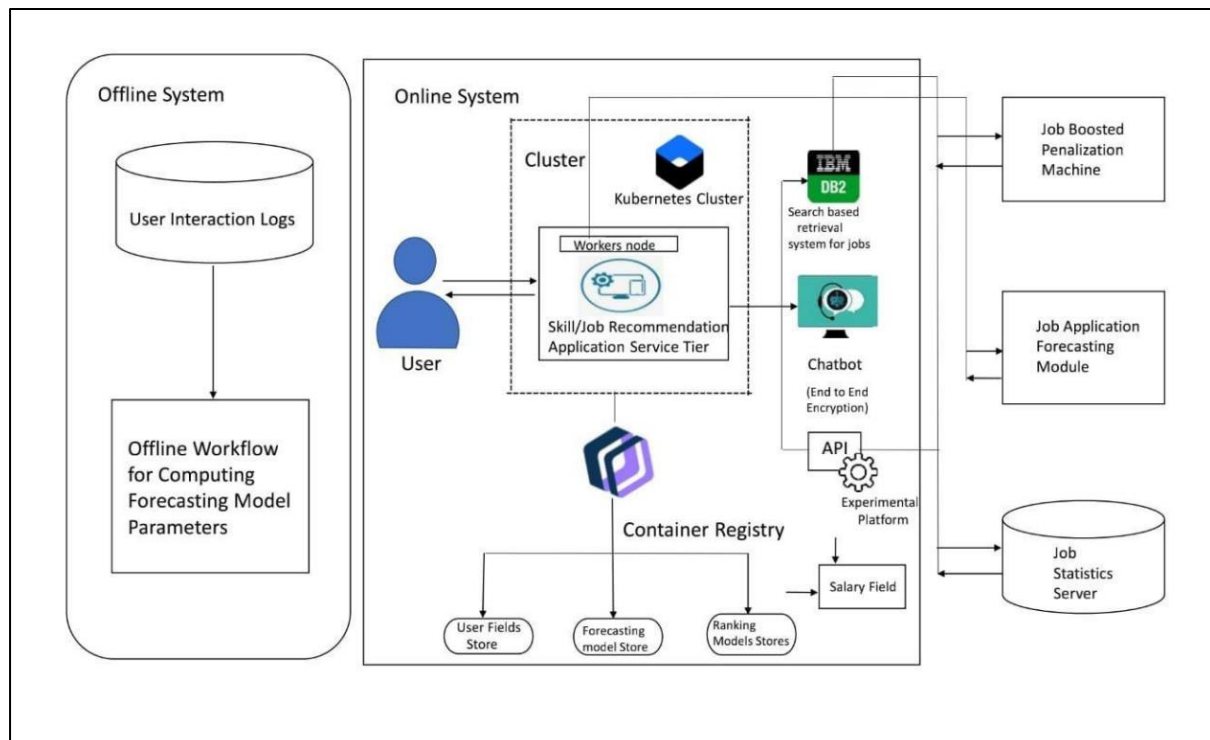
Table-1: Components and Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Developing Interface	Developing application for the task	Java / Python
3.	Voice Assistance	Voice commands instead of typing.	IBM Watson STT service
4.	Chatbot Assistance	Conversational Interface	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Object Recognition Model, etc.

Table-2: Application Characteristics:

S.No	Component	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used.	Technology of Opensource Framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256, Encryptions, IAM Controls, OWASP, etc.
3.	Scalable Architecture	Justify the scalability of architecture (3-tier, Micro-services)	Artificial Intelligence (AI).
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	RAID (Redundant Array of Independent Disks).
5.	Performance	Design consideration for the performance of the application (number of	DRAM or flash memory

		requests per sec, use of Cache, use of CDN's) etc.	