Project Design Phase II

Technology Architecture

Guidelines :-

- Include All The Processes (As An Application Logic / Technology Block).
- Provide Infrastructural Demarcation (Local / Cloud).
- Indicate External Interfaces (Third Party API's Etc).
- Indicate Data Storage Components / Services.
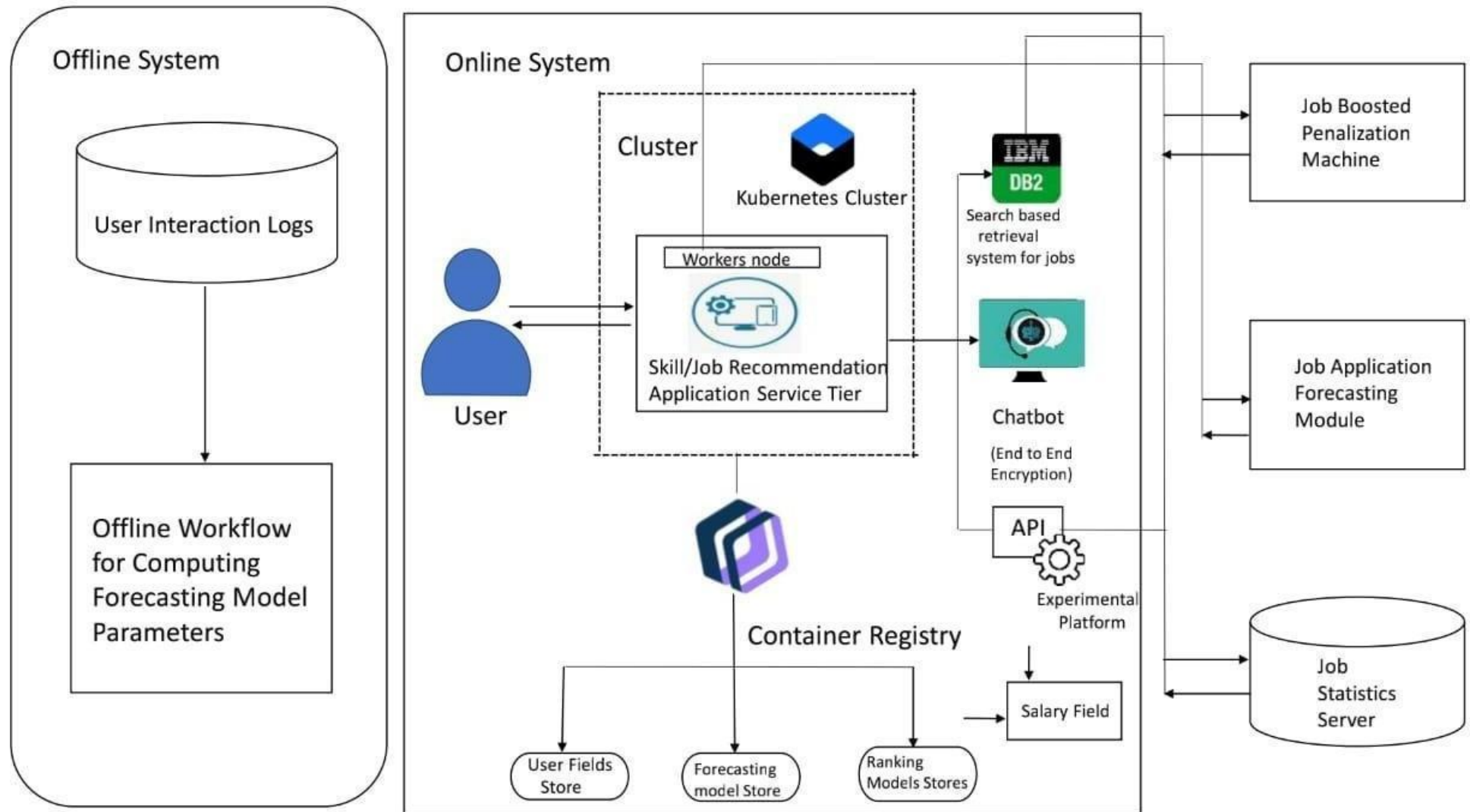- Indicate Interface To Machine Learning Models (If Applicable).

Table 1 : Components And Technologies :-

S.No	Component	Description	Technology
1.	User Interface	How User Interacts With Application Eg. 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 :	Local, Cloud Foundry, Kubernetes, Etc

Table 2 : Application Characteristics :-

S.No	Characteristics	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	Eg. 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 (Eg. Use Of Load Balancers, Distributed Servers)	Raid (Redundant Array Of Independent Disks)

S.No	Characteristics	Description	Technology
5.	Performance	Design Consideration For The Performance Of The Application (Number Of Requests Per Sec, Use Of Cache, Use Of CDN's) Etc	Dram Or Flash Memory