Project Design Phase-II
Technology Architecture

Date	17 October 2022
Team ID	B2-2M4E
Project Name	Skill and Job Recommender
Maximum Marks	4 Marks

Technical Architecture:
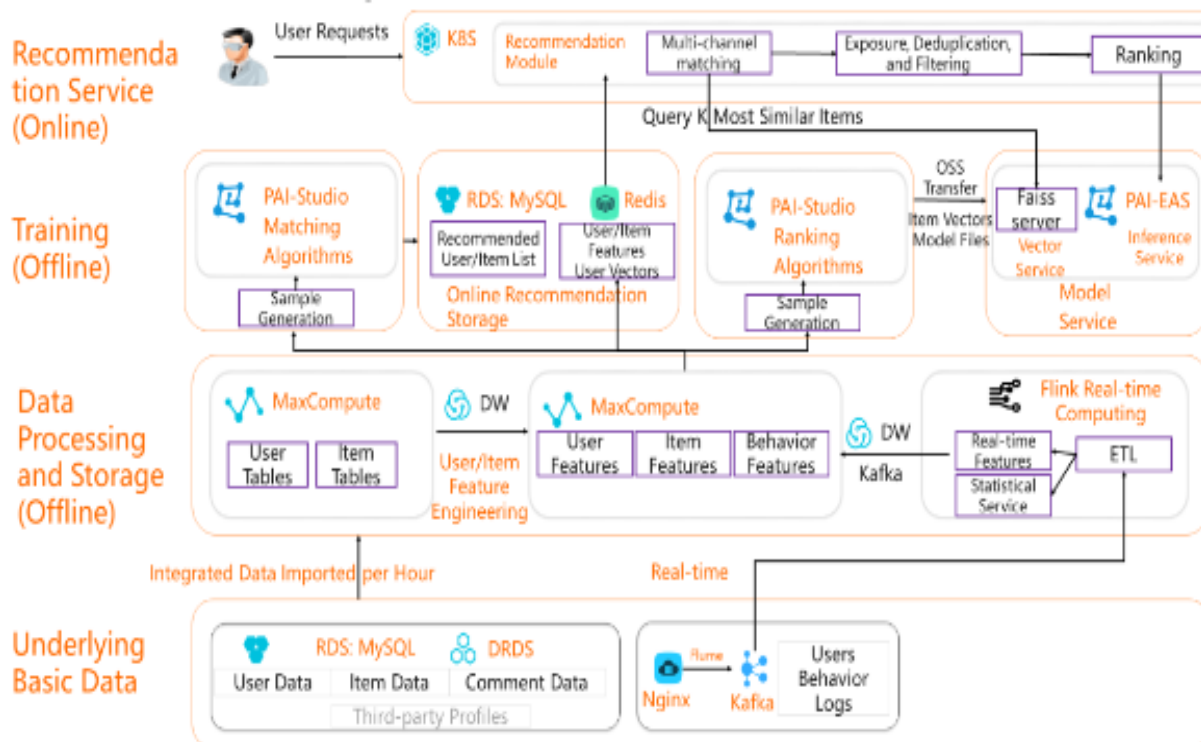
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI, Mobile App, Chatbot.	HTML, CSS, Java.
2.	Application Logic-1	Using Flask to create a application format.	Python,HTML.
3.	Application Logic-2	Using Sendgrid application.	IBM Watson STT service
4.	Application Logic-3	Using Cloud , Docker CLI , Kubernity.	IBM Watson Assistant
5.	Database	Data Type (Primitive & Non-Primitive)	MySQL.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	Files are stored in Local file system.	Local File system.
8.	External API-1	Used to Store a Data.	IBM Weather API.
9.	External API-2	Verification ID of applicant.	Aadhar API.
10.	Machine Learning Model	Using to share a data and stored.	NLP.
11.	Infrastructure (Cloud)	Application Deployment on Local System.	Cloud Foundry ,Kubernetes.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To design a frame.	Lenskit.
2.	Security Implementations	access controls implemented, use of firewalls.	Encryptions, OWASP.
3.	Scalable Architecture	Potential to implement more advance features of the application.	Cloud.
4.	Availability	use of distributed servers etc.	Twilio sendgrid.
5.	Performance	Design consideration for the performance of the application number of requests per sec, use of Cache, use of CDN's .	PTP.