

Technology Architecture

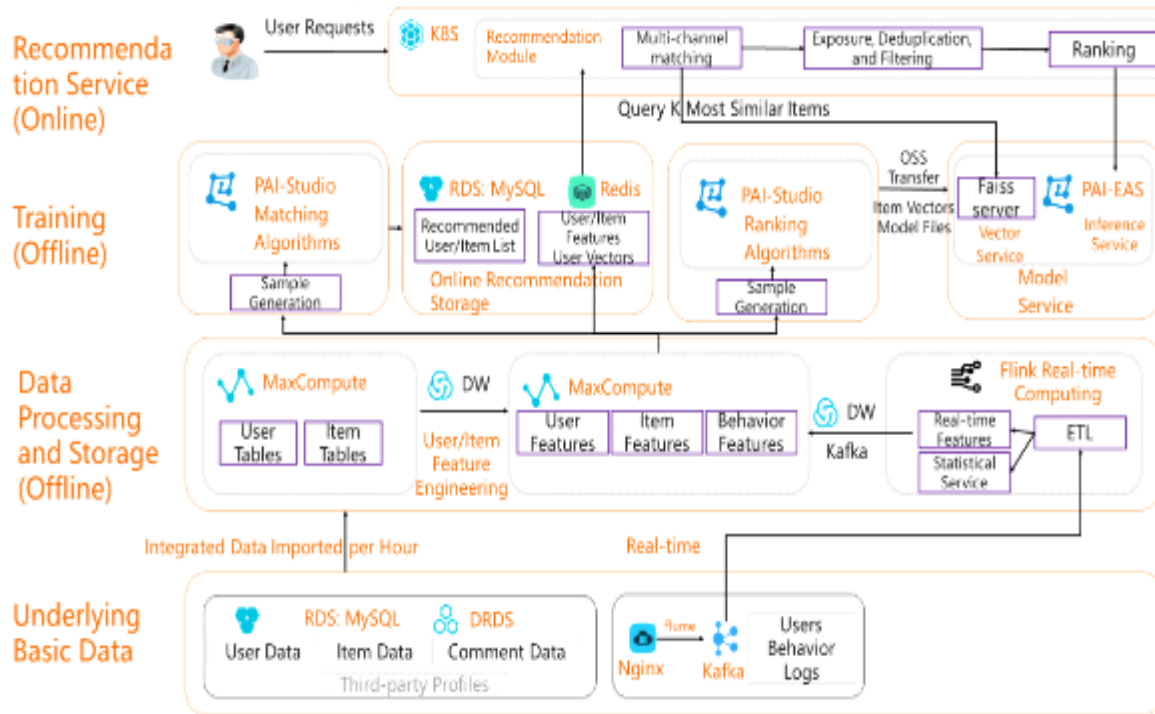


Table-1 : Components & Technologies:

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.