

Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	B8-2A4E
Project Name	Skill and Job Recommender
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Example: Order processing during pandemics for offline mode

Reference: <https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/>

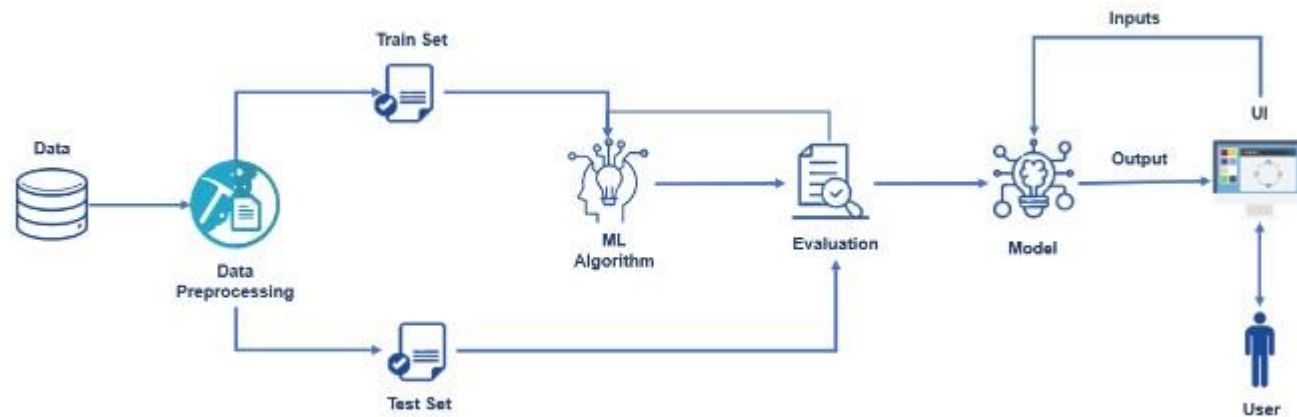


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Dynamic Web UI	HTML, CSS, JavaScript
2.	Application Logic-1	User Registration/Login	Gmail API
3.	Application Logic-2	Web app that recommend job for the user	Flash API, Python
4.	Application Logic-3	Logic for a Searching data's in database from the application	IBM
5.	Database	Stores user input and job applications in the database.	DB2
6.	Cloud Database	Database Service on Cloud.	IBM DB2
7.	File Storage	Store the trained chatbot Intents.	Online ChatBot Trainer, eg: dialogflow.
8.	ChatBot	Integrated with DB2	Training of intent and entities
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local Server Configuration: Local Cloud Server Configuration: IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Many Open-Source platforms are available to create and train chatbot application.	BotKit, Botpress, OpenBook, Rasa, Dialogflow etc.,
2.	Security Implementations	It is the security discipline that makes it possible for right entries to use the right resources without interference	OWASP, Encryption, Password Protection
3.	Scalable Architecture	The accuracy and responsive UI	Bootstrap and Material UI.
4.	Availability	Searching of jobs, Recommendation for jobs.	Natural Language Processing
5.	Performance	Deployed and tested and this system gives greater accuracy and better performance	Python for creating AI chatbot

References:

<https://c4model.com/>

<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>