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

Date	03 October 2022
Team ID	PNT2022TMID27807
Project Name	Project – Skill and Job Recommender System
Maximum Marks	4 Marks

Technical Architecture:

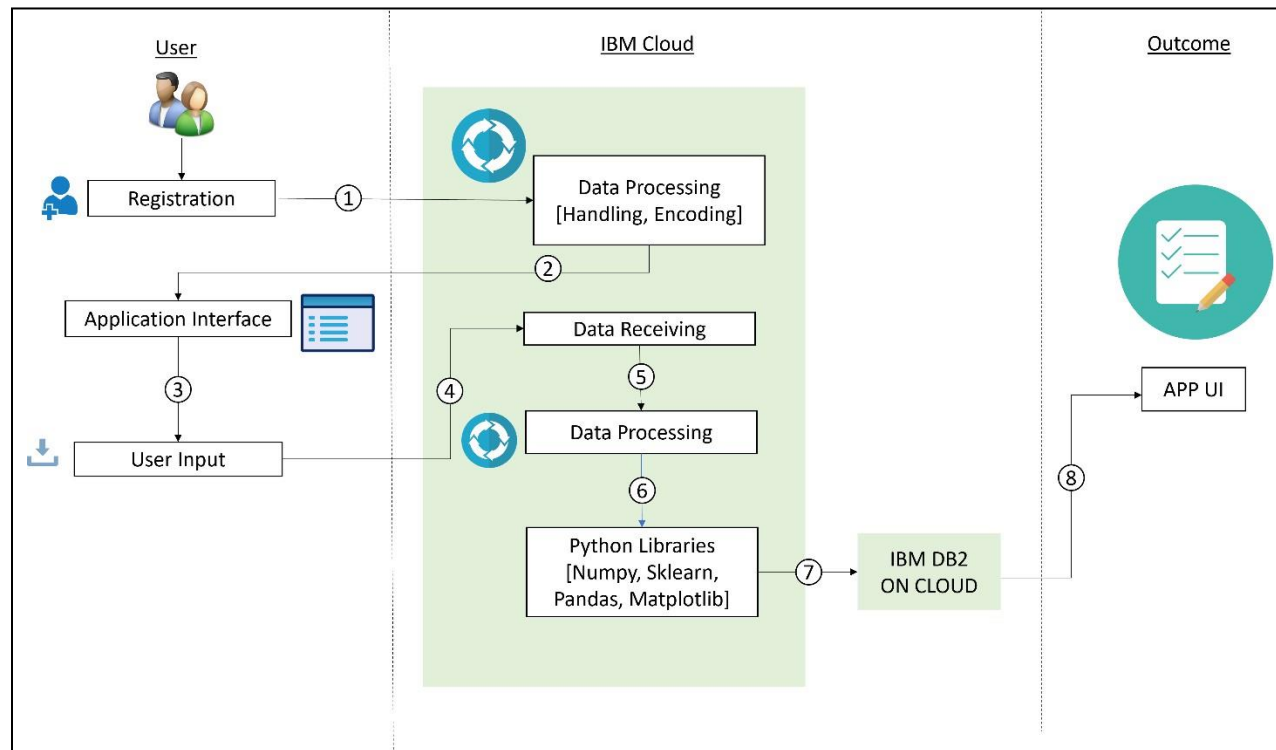The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	An Interface for the user to interact with the Recommendation model.	HTML, CSS, JavaScript
2.	User Registration	User can register in the web application	HTML, CSS, Python
3.	Job Seeker Preference	User gets collected the information regarding the type of job they are looking for and based on that they are recommended.	Python
4.	Cloud Database	Database Service on IBM Cloud	IBM DB2
5.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	IBM Cloud, Kubernetes, Cloud Foundry, etc.,
6	External API	With the help of API, the user can search the job based on their Skillset.	IBM API, Google Search Engine, Aadhar API, etc.,

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The python open-source frameworks are used to build the web application	Python Flask, NumPy, IBM DB, etc.
2.	Scalable Architecture	The 3-tier architecture used with a separate user interface, application tier and data tier make it easily scalable.	IBM Watson Studio
3.	Availability	The web application is highly available as it is deployed in cloud.	IBM Cloud
4.	Performance	The performance of the website is improved with caching and security.	IBM Cloud Internet Services.