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

Date	03 October 2022
Team ID	PNT2022TMID00730
Project Name	Skill/Job Recommender Application
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table2
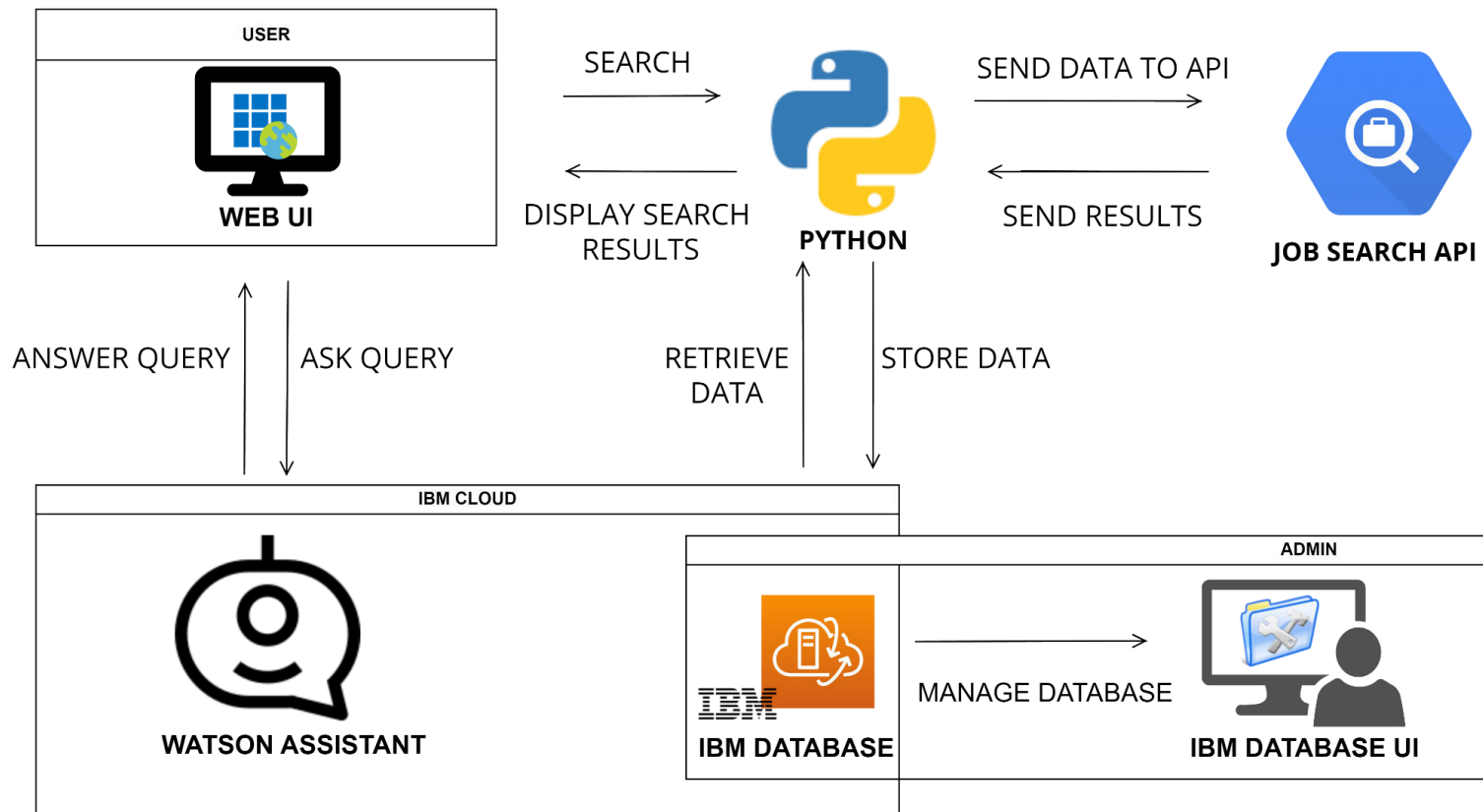
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc	HTML, CSS, JavaScript / Angular Js /React Js etc.
2.	Application Logic-1	Logic for a process in the application.	Java/Python
3.	Application Logic-2	Logic for a process in the application.	IBM Watson Assistant STT service
4.	Application Logic-3	Logic for a process in the application	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 StorageService or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc
11.	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	Python flask framework is used	Python flask
2.	Security Implementation	Mandatory access control,preventive security controls and supervised techniques are used	SHA-256,Encryption techniques, IAM controls, OWASP , Machine learning
3.	Scalabale Architecture	It does not disturb the performance of the computer by not affecting the operating system. Itworks in minimal hardware systems	. Presentation tire-HTML, CSS, javascript, Application tier-Python Data tier-IBM DATABASE
4.	Performance	Justify the availability of application	IBM Load balancer
5.	Availability	Design the consideration for the performance of the application	IBM Content delivery network