

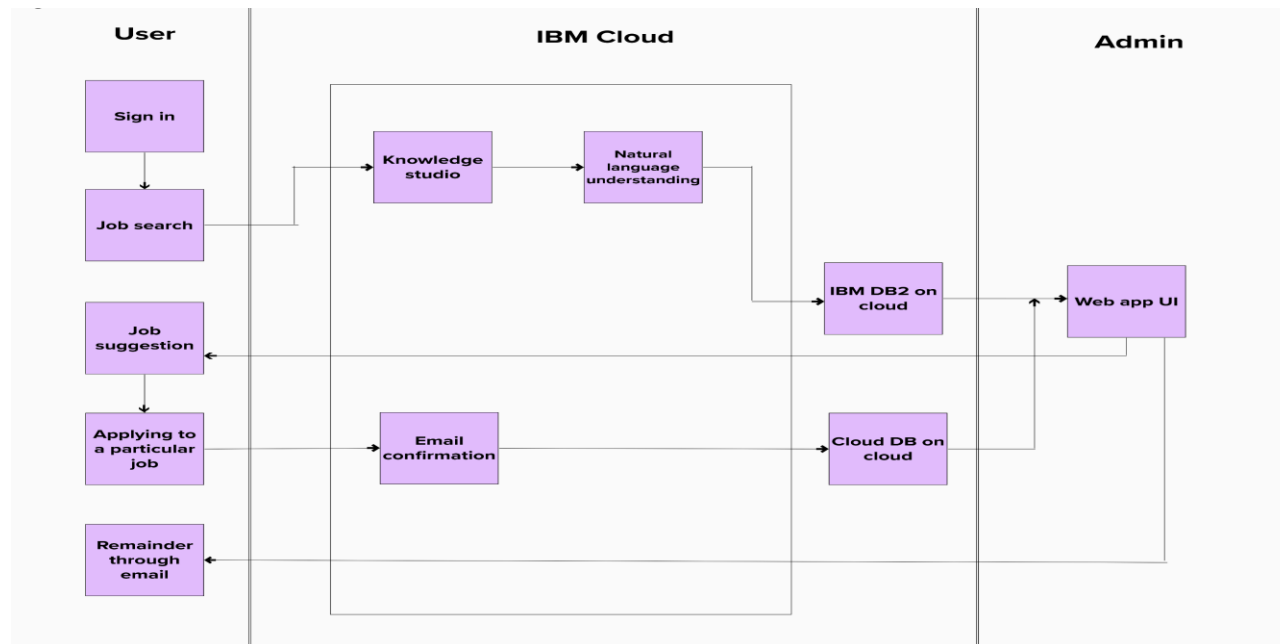
## Project Design Phase-II

### Technology Stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMID30531
Project Name	Project – Skill and Job RecommenderApplication
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:**

<b>S. No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1.	User Interface	Web UI	HTML5, CSS3, SASS, Bootstrap5, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python Flask
3.	Application Logic-2	Logic for a process in the application	Send Grid Service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	My SQL, PL/SQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	IBM Bucket
8.	External API-1	To fetch the job details and post in web UI	indeed API, Carrer Jet API
9.	External API-2	Purpose of External API used in the application	None
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: Docker Cloud Server Configuration: Kubernetes	Docker, Kubernetes

**Table-2: Application Characteristics:**

<b>S. No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	List the open-source framework used	Bootstarp5, flask
2.	Security Implementations	List all the security / access controls implemented,use of firewalls etc.	HTTPS
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Micro Service
4.	Availability	Justify the availability of application (e.g. use ofload balancers, distributed servers etc.)	The Load balancer is all handled by IBM
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use ofCache, use of CDN's) etc.	IBM free tier, cache is maintained for 15days