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

Date	23 October 2022
Team ID	PNT2022TMID34860
Project Name	Skill and Job Recommender
Maximum Marks	4 Marks

Technical Architecture:
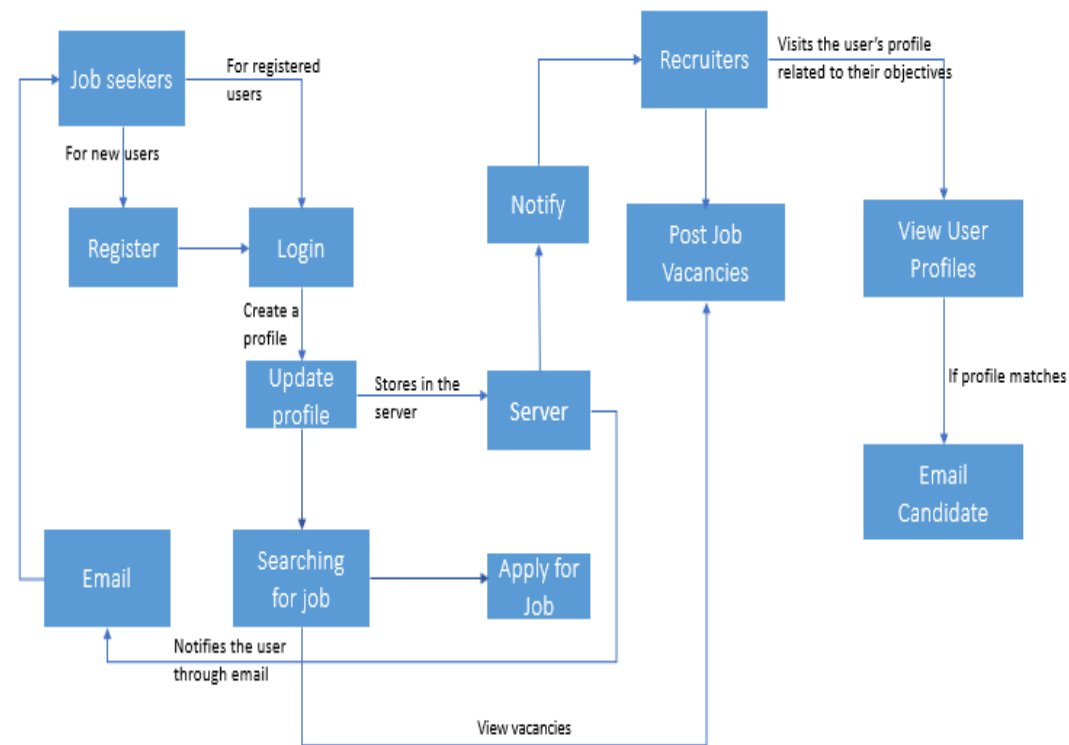
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	A web application where user can interact using any browser.	HTML, CSS, JavaScript
2.	Update Profile	The user can update their profile information from the user Dashboard section.	Python-Flask, HTML, CSS, JavaScript
3.	List Companies	The company that matches the user profile will be returned and displayed to user.	Python-Flask, HTML, CSS, JavaScript
4.	Notification	Any Updates on new vacancies will be displayed in user dashboard.	Python-Flask, HTML, CSS, JavaScript
5.	Post vacancies	The Recruiters can post new job vacancies.	Python-Flask, HTML, CSS, JavaScript
6.	Job assistant – Chat Bot	The user can interact with the chatbot to enquire details about vacancies.	IBM Watson Assistant
7.	Email	The application will send email to user if any company requirements matches user profile.	Python-Flask, Flask-Mail
8.	Cloud Database	User data's such us login, user profiles are stored in the database.	IBM DB2
9.	Cloud Database	Recruiter data's such us Company details, Vacancy details are stored in the database.	IBM DB2
10.	File Storage	A scalable Cloud Object Storage for storing user uploads.	IBM Cloud Object Storage

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python Flask.	Python, Python-based web framework
2.	Security Implementations	Provides layered security controls across network and infrastructure.	IBM Cloud
3.	Scalable Architecture	3 – tier architecture.	IBM Cloud Object Storage, IBM DB2
4.	Availability	Reduces congestion and balancing the load on various other services and systems.	Load Balancer
5.	Performance	The web application can handle multiple number of requests per sec	IBM Cloud