

Project Design Phase-I
Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID20025
Project Name	Project – Skill and job recommender
Maximum Marks	4 Marks

Solution Architecture:

1. Find the best tech solution to solve existing business problems

An end-to-end web application will be developed to display the current job openings based on the user skillset. We use a job search API to get the current job openings in the market which will fetch the data directly from the webpage. This will solve business problem related to fraudulent jobs assigning to the candidates. User can be able to search the job based on filtering their domains and can get the desired jobs. But to make ease the search option here comes the solution that when user logged in, they can get the required jobs and information about the job vacancies by extracting their skillset information from LinkedIn. The user and their information are stored in the database. We use IBM DB2 for database. Lack of knowledge about the job vacancy will be solved here by sending an alert when there is an opening based on the user skillset. This will allow user to get updates about the vacancies. Users will interact with the chatbot i.e. Watson Assistant for job recommendation and can get the recommendations based on their skills. People who are recruiting the candidate can remotely organize the assessment and conduct the interview which solves the unemployment in the country and can get desired candidates.

2. Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.

The structure of the skill and job recommender application consists of the main customers for our project are: Persons who are seeking for jobs, Persons who recruit the job candidates. An web app which consists of displaying the current job opening to user who in search of desirable jobs and user can get them after providing the login details and gets interacted with chatbot for job recommendation if they need. Job recommendations can be specifically sent to the user. Hence this app consists of two module login/admin module. Admin can view the user details and modify. The user and their information are stored in the database. User can view the

job vacancies. User can be able to search the job based filtering their domains and can get the desired jobs. The characteristics of this project consists of,

- Getting updates about job vacancies.
- Process of recruitment is easy based on their resume or domains.
- Person with esteemed talent in an undesirable job.
- Endless job opportunities.
- Non fraud current jobs are only listed

Behaviour:

User jobs -online

- Apply for jobs
- Review job applications
- Attend initial level assessment

User jobs-offline

- Final level interview
- Checkout location and infrastructure of company
- Finalize paperwork

3. Define features, development phases, and solution requirements.

Features:

- After logged in user can be able to view their interested and require jobs based on their linkedin profiles.
- User can prove their talents by attending preliminary test and add advantage to your profile.
- Apply for bigger opportunities
- Attend online interview
- No need to concern about misuse of personal information
- No payment needed to apply and view the jobs
- Endless Job opportunities

Phases and solution:

- Login page
- Job vacancies
- Profile updation
- Job reviews
- Submit application

4. Provide specifications according to which the solution is defined, managed, and delivered.

Modules:

- **Admin-**
Can view and updates data
Send recommended information to user
- **User-**
View and apply for jobs
Take test and improves the profile
Revise the reviews
Interact with chatbot

Solution Architecture Diagram:

