

**Project Design Phase-I**  
**Proposed Solution**

Date	19 September 2022
Team ID	PNT2022TMID28874
Project Name	Skills/Job Recommender Application
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>Having lots of skills but wondering which job will best suit you? Don't need to worry! We have come up with a skill recommender solution through which the fresher or the skilled person can log in and find the jobs by using the search option or they can directly interact with the chatbot and get their dream job.</p> <p>To develop an end-to-end web application capable of displaying the current job openings based on the user skillset. The user and their information are stored in the Database. An alert is sent when there is an opening based on the user skillset. Users will interact with the chatbot and can get the recommendations based on their skills. We can use a job search API to get the current job openings in the market which will fetch the data directly from the webpage.</p>
2.	Idea / Solution description	<p>The solution proposed is that a new data set will be formed based on the skill sets of the job seekers and the set of job vacancies. Thus by matching the skills set of people to the requirements, job seekers are recommended jobs. Thus aspirant's skills are matched to their preferred domains, thereby exploring various job fields. Even chatbot assistance is provided.</p>
3.	Novelty / Uniqueness	<p>The skill-based recommender system will work well in perfect situations which is far from the real-world situations. Many irrelevant skills might be extract from the description for different and inevitable reasons. To deal with this issue, we found a better strategy - filter jobs by titles and then</p>

		sort them by similarity. The first layer - job filters can effectively exclude irrelevant jobs based on irrelevant skills. There is nothing complex, as we already discussed in Title recommender section. The filter is basically select jobs with the most relevant titles.
4.	Social Impact / Customer Satisfaction	This helps aspirants explore the unexplored fields which actually has demand. Every skills are matched to their corresponding requirements. The companies in here will be verified so job seekers feel safe and secured.
5.	Business Model (Revenue Model)	We can share the details of the job seekers to companies with the permission of users, thereby generate revenue. We can even allocate certain honours to subscribed users, resulting in income.
6.	Scalability of the Solution	Requests per second can be handled by load balancers. Any number of users can be handled, though vast number of users simultaneously request access to data.