

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

Date	30 September 2022
Team ID	PNT2022TMID24872
Project Name	Project – Skill / 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 a variety of abilities but unsure of which position would be best for you? No need to be concerned! With our skill recommender solution, either a skilled or a fresher user may sign up, search for jobs using the search bar, or speak with the chatbot directly to land their ideal position.</p> <p>*To create a complete web application that can show available jobs based on the user's skill set. The database contains both user and their data. In addition to that, company can also add their available job offers to get employees for a particular role.</p>
2.	Idea / Solution description	<p>The implemented ideas are:</p> <p>*IBM DB2 is used for storing the data.</p> <p>*Chatbot is implemented by Watson Assistant.</p> <p>*Job search API is used for searching jobs based on the educational qualification and skills.</p> <p>*In addition to that Kubernetes cluster and container registry are used.</p> <p>*With the help of the above tools and techniques skill and job recommender application will be implemented and developed.</p>
3.	Novelty / Uniqueness	<p>*The Skill &amp; Job Recommender System is capable of offering suggestions based on users data and preferences. These systems processes information using information filtering techniques and present them a wide range of opportunities.</p> <p>*The web applications provides recommendations based on the user's educational qualifications and skills.</p> <p>*It doesn't recommend jobs that do not suit the user's profile.</p>

4.	Social Impact / Customer Satisfaction	<p>Impacts include:</p> <ul style="list-style-type: none"> <li>*Job seekers can easily get jobs.</li> <li>* Recruitment of employees gets easier for employers.</li> <li>*It's time saving for both the company and the user.</li> <li>*Companies can provide vacant job roles and find ones for that specific role.</li> </ul>
5.	Business Model (Revenue Model)	<p>Skill/Job Recommender system is needed because:</p> <ul style="list-style-type: none"> <li>*Each organisation needs to recruit employees for a particular field/department.</li> <li>*For instance, in educational sector, teachers/professors get hired based on their educational background.</li> <li>* Skill and job Recommender application is used for the hiring process.</li> <li>* The usage of skill and job Recommender application is widely used for the recruitment process.</li> </ul>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>*IBM DB2 is used by many businesses, which offers a data platform for both transactional and analytical operations. It ensures that data is continuously available such that transactional process and analytics function smoothly.</li> <li>*Watson Assistant is used to automate communications with end customers.</li> <li>* Jobs can be recommended.</li> <li>* Kubernetes cluster helps application to run on multiple machines and environment.</li> <li>*Container Registry manages all the user details in single place.</li> </ul>