

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	18 October 2022
Team ID	PNT2022TMID04903
Project Name	Skill and Job Recommender
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Google Account Registration through LinkedIn Account
FR-2	User Login	Login using login credentials Sign in with Google/ LinkedIn Account
FR-3	Search jobs	Job seekers search for jobs by desired role, Salary, Skillset-Tags and location.
FR-4	Get Appropriate Job Recommendations	Resume extraction/resume parsing is done to extract useful information from the CV uploaded by the job seekers. The extracted features are the basic features, and the job seeker's activity is recorded, which gives the dynamic features.

		The basic and dynamic features help provide personalized job recommendations to job seekers via chatbot.
FR-5	Get Job Alerts	The job availability is sent as an notification as soon as it is available through instant mail service or is communicated via chatbot.
FR-6	Get Accurate Skill Recommendations	Job seekers are recommended technical certification courses based on their resumes and skillset tags to get accurate job recommendation.
FR-7	Display Job-Skill Match Score	The score presented to the job seeker is based on how much his skillset tags match with the job provider's expectations. Higher the match, higher the score.
FR-8	Post job vacancies	Job recruiters post details of job vacancies in their company. The details include the job description, required qualifications, job responsibilities, working conditions, etc.
FR-9	Fake Job Detection and Removal	The system accepts all resumes initially and is passed through a plagiarism filter to get rid of fake profiles.
FR-10	Bookmark Job Posts	The job seeker can ping a bookmark or tag any number of jobs that they apply for, for quick access.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	Intuitive UI is provided to the users, which is clutter-free ensuring they can easily navigate through the application.
NFR-2	Security	Authentication - The user must be logged in to view the job posts and apply. Withholding of sensitive information - Passwords are not stored within the system or revealed to the users. Privacy - The users can choose who can view their profile/posts.
NFR-3	Reliability	The system performs without failure in most of the use cases. The total downtime for the system over a year shall not exceed 24 hours.
NFR-4	Performance	Processing time - The processing time takes less than three seconds. Response time - The server responds to the client's requests in less than one second. Querying time - Querying the database takes less than one second.
NFR-5	Availability	The system is always available.

NFR-6	Scalability	To meet the changing demand and workload, cloud services are utilized. Processing for the workload is scaled in the cloud based on number of users at that instant.
NFR-7	Recovery	The system frequently backs up the user data every one hour to avoid any data loss. In the event of any disaster, the latest backup is immediately restored.