Experiment 1: Apply the knowledge of SRS and prepare Software Requirement Specification (SRS) document in IEEE format for the project

Learning Objective: Students will be able to List various hardware and software requirements, Distinguish between functional and non-functional requirements, indicate the order of priority for various requirements, analyze the requirements for feasibility.

Tools: IEEE template and MS Word

Theory:

SOFTWARE REQUIREMENT SPECIFICATION

For

JOB-BOARD-APP

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1. Introduction

1.1 Purpose

The purpose of this document is to give a detailed description of the software application Job-Board-App.

It will explain the purpose and feature of the software along with the interface of the system, what will the software do & what is the constraint under the software operation.

1.2 Document Conventions

This document was created based on the IEEE template for System Requirement Specification Documents.

1.3 Intended Audience

The Targeted Audience for our system includes Students, Jobseekers, & every individual who wants to work for companies since our application allows you to apply and work for the company they need.

1.4 Product Scope

As the name represents Job-Board application provide an individual opportunity to take up the company which they want to work for, and put-up steps in the real world to let them how the work has been done is the company along with that our application setups the interview for the selected candidate and help both company and candidate to fulfill their needs

1.5 Product Scope

The proposed system will affect or interface with the activities of graduates, employers, and administrators. The system works and fulfills all the functionalities as per the proposed system.

It will provide reduced response time against the queries made by different users.

The administrator will have a clear view of the number of vacancies for a particular job, the number of candidates applied, and the number of candidates selected.

All possible features such as verification, validation, security, user-friendliness, etc. have been considered.

1.6 Reference

Project Git lab ID:

Umair Khan: https://gitlab.com/khanumair1650

2. Overall Description

2.1 Product Perspective

Job-Board-App is developed for Students, Jobseekers, & every individual who wants to work for companies since our application allows you to apply and work for the company they need. It provides an individual opportunity to take up the company which they want to work for, and put-up steps in the real world to let them know how the work has been done in the company along with that our application setups the interview for the selected candidate and help both company and candidate to fulfill their needs.

2.2 Product Functions

● **Login/Register:** Here the user can log in through Google, Facebook, GitHub.

● **Jobs:** Here the user can apply jobs to different companies according to job opportunities and can also filter jobs by location.

● **Profile:** Here the user can edit his skills, work experience, skills, education details and can also upload the resume. Through the resume the skills of the user mentioned will be scanned and according to that the user will get jobs notifications based on their skills.

● **Settings:** Notification Settings - Here the user can select the option to notify them if their profile is viewed by recruiters.

2.3 User Classes and Characteristics

● Users such as students, jobseekers who want to work for the company as per their requirements.

2.4 Operating Environment

- Android
- IOS

2.5 Design and Implementation Constraints

Jobs Portal App is developed in NodeJS, and an ionic framework is used for building a performant app. It uses a modular design where every feature is wrapped into a separate module and the modules depend on each other through well-written APIs. There are several APIs available to make plugin development easy
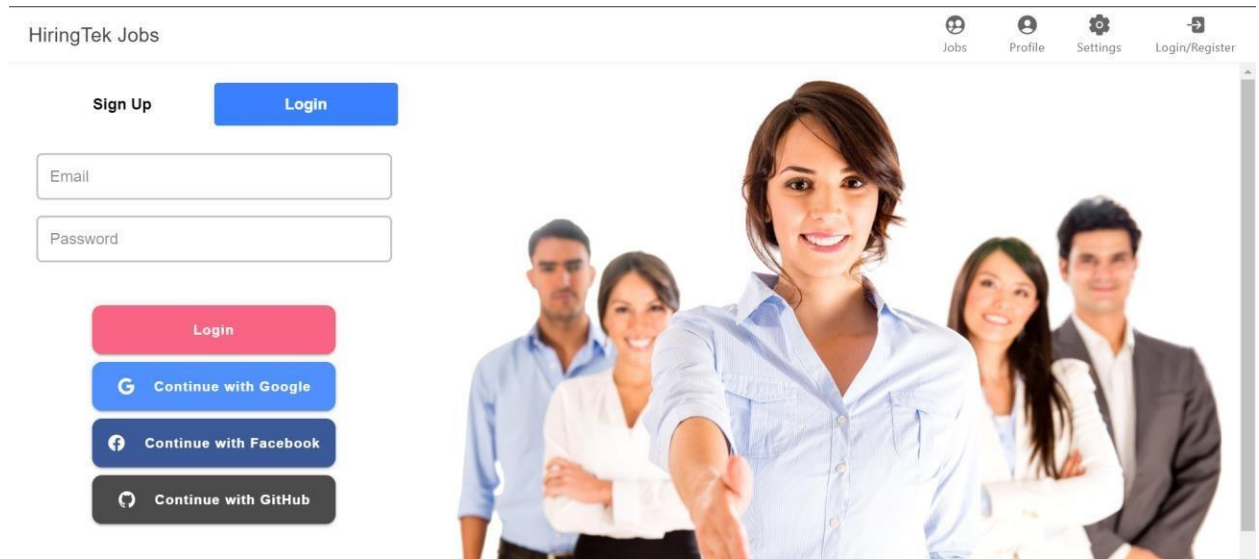
2.7 Assumptions and Dependencies

- End-user is the person having enough knowledge for the project operation
- Only Admin has all the privileges
- Candidate can only fir the registration form
- Candidate cannot apply for job after deadlines

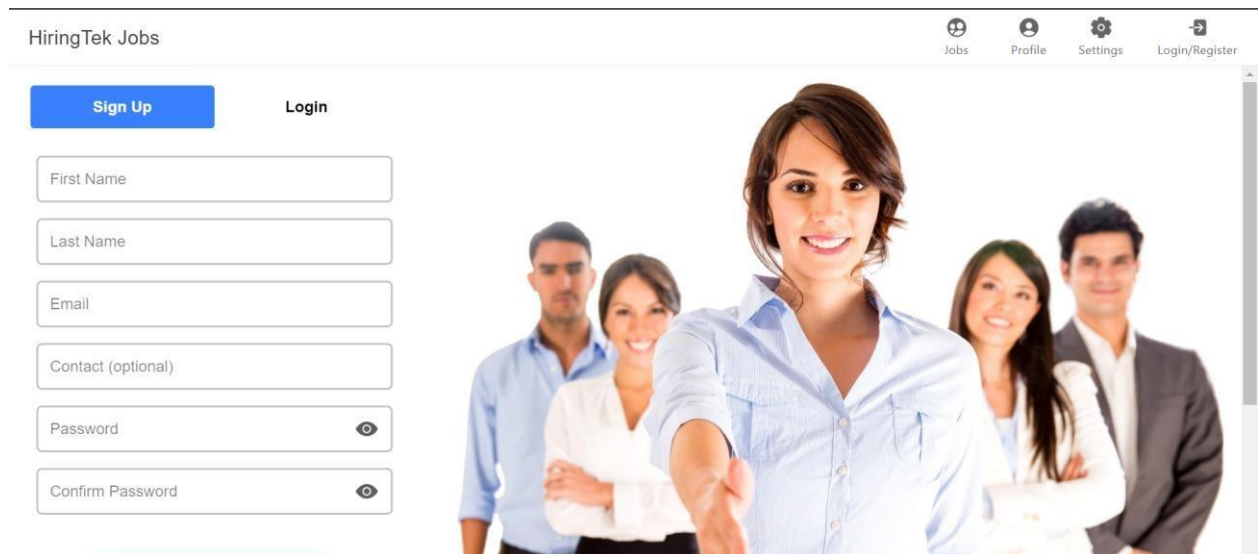# 3. External Interface Requirements

3.1 User Interfaces

1. Login Page

2. Signup Page

3. Job Opportunities Page

4. User Profile: Here, the user can edit his skills, work experience, skills, education details and can also upload the resume.

5. Account Settings

6. Notification Settings: Here the user can select the option to notify them if their profile is viewed by recruiters.

3.2 Software Interfaces

Job Board App is a web-based application,

So, we only need a browser and through that, we can easily access our application.

3.3 Communications Interfaces

Job Board App requires an internet connection to install new plugins, update already installed ones, and update some of its components (APIs, modules, etc.).

This application has many means to communicate with the Technical Team as we have concurrently implemented the mail, and contact information so the users can easily communicate if they are having any problem regarding the application

4. System Feature

This section will represent the best feature which we are going to use in our project, although we have many features to list out now, we are focusing on the best feature which our application is providing

4.1 Description & Priority

The Feature which we are going to introduce here is based on AI searching, as our project is a Job-boarding Application you already know the basic mean of it as it provides the individual to grab the job opportunity.

Our project will ask an individual to upload his/her resume, then we programmed our system in such a way that it will scan the resume of an individual and give them a list of the company which are best suited to the resume

So, the candidate can easily know about the companies which he/she is best suited to work for.

4.2 Stimulus/ response Sequence

In this application there is various stimulus and responses sequence are there and, in this feature, the stimulus and responses are given below:

Stimulus: The user requested to see the availability of Jobs.

Response: The system will show the list of the job best suited to his resume

Stimulus: The user requested an interview

Response: The system will schedule the interview based on User specified Slot

5. Other Requirements

Other Requirement ID	Other Requirement Title	Detail of requirement
OR01	Usability	Due to the nature of the users, the system needs to be as simple as an information technology system can be.
OR02	Aesthetics	The look of the site should be simple and use highly contrasting colors for text. The site should be more professional by looks.
OR03	Load time	Bandwidth has to be as good as possible as there is a large no of applications.
OR04	Security	The system should be fully secured to keep data safe.
OR05	Privacy	The privacy of all the users of the site should be paramount. And no data should be shared with any third party.
OR06	Ethics	The system should meet all the ethical requirements, it should be non-partial and equal for all

6. Glossary

Reference: https://www.iqtalentpartners.com/recruitment-glossary/

Acqui-Hiring: (acquisition and hiring) purchasing a company in order to acquire its employees, while the product of the acquired company becomes secondary. This is a relatively new concept that is becoming more common, especially in the tech industry.

Active Candidate: an individual who is actively searching for a job and is open to hearing about opportunities from recruiters and employers. The opposite of a passive candidate.

Actively Passive: someone who makes themselves "findable" but isn't actively looking for a new career.

AI Recruitment: the application of artificial intelligence to source, engage, and interact with candidates. This technology is designed to automate repetitive, high-volume tasks so recruiters can focus on other elements of their jobs.

Aptitude Testing: test(s) made to assess a candidate's potential and thinking capabilities to determine whether they are qualified. These can also be used to prove if a candidate is being truthful about their skills listed on their resume.

Backfill: an open position created by the vacation of the incumbent.

Benefits: non-cash incentives that are separate from salary. Examples are healthcare, 401K contributions, company cars, flexible schedules, paid time off, wellness program or gym, children's daycare, student loan assistance, conference stipend, and so on.

Bonus Hours: any remaining hours (of the 40-hour workweek) a team member has available which are not billed specifically to the client but worked as extra "free" hours for a client.

Boolean Search: a process that allows the user to insert words or phrases such as AND, OR, NOT to limit, broaden, or define the search results. Boolean search allows the combination of five different elements to conduct a search.

Candidate Experience: a candidate's perception of a company's entire recruiting and hiring process.

Candidate Persona: a clear semi-fictional representation of the ideal candidate to fill an open position. The candidate persona is typically determined by an HR team in order to tailor their sourcing and acquisition strategies towards candidates who match that persona.

Candidate Profile: a framework of qualities, characteristics, or past achievements that you want in a candidate for a certain job opening.

<u>Learning Outcomes:</u> Students should have the ability to

LO1: List various hardware and software requirements
LO2: Distinguish between functional and non-functional requirements
LO3: Indicate the order of priority for various requirements
LO4: Analyze the requirements for feasibility Course ▪

<u>Course Outcomes:</u> Upon completion of the course students will be able to prepare an SRS document

<u>Conclusion:</u>

From this experiment, we are able to gain the deep understanding about what we have to done in order to improve our project and able to gain deeper understanding with the project, also were able to learn the IEEE format and work upon that so that our application can look up to its expectation

For Faculty Use

Correction Parameters	Formative Assessment [40%]	Timely completion of Practical [40%]	Attendance / Learning Attitude [20%]	
Marks Obtained				