

# **Job Portal Website**

## **Project Report**

**Major Project (IMW651)**

**Degree**

**BACHELOR OF COMPUTER APPLICATION**

**(Mobile Application and Web Technology)**

**PROJECT GUIDE:**

**Mr. Sanjeev Soni**

**(Senior IT Faculty, CCSIT, iNurture)**

**SUBMITTED BY:**

**Enrollment No: TCA2055005**

**Name: Purushartha Singh Thakur**

**May, 2022**



**FACULTY OF ENGINEERING & COMPUTING SCIENCES**

**TEERTHANKER MAHAVEER UNIVERSITY, MORADABAD**

## **Acknowledgement**

We would like to express our special thanks to our guide, Mr. Sanjeev Soni, who provided us the golden opportunity to work on the project “Job Portal Website” created using the MERN stack. While working on this project, we have gained a lot of valuable knowledge and experienced working on the project as a team. We express our wholehearted thanks to our mentor/guide.

Place: Teerthanker Mahaveer University (Moradabad)

Date: 01/03/20

## DECLARATION

I hereby declare that this Project Report titled **Job Portal Website** submitted by us and approved by our project guide, Mr. Sanjeev Soni, is a bonafide work undertaken by us and it is not submitted to any other University or Institution for the award of any degree diploma / certificate or published any time before.

**Project Name :** Job Portal Website

**Student Name:** Purushartha Singh Thakur      Signature

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## 1 Project Title

The project title is '**Job Portal Website**'. It will serve as a platform for job seekers and employers to connect. It will allow job seekers to create profiles, search for and apply to job listings, while employers can post job openings, browse resumes and contact candidates.

## 2 Domain

**Web Development (Job Portal).** In the present scenario, everything in the world has been digitalized and is available at the click of a button in a matter of few seconds, this is possible with the advancement in the field of web. It provides a means of creating innovative and engaging websites/applications for the users. These websites can be accessed from anywhere and at any time with an internet connection making it one of the most popular choices for the general public to easily gain information, entertainment and many other needs.

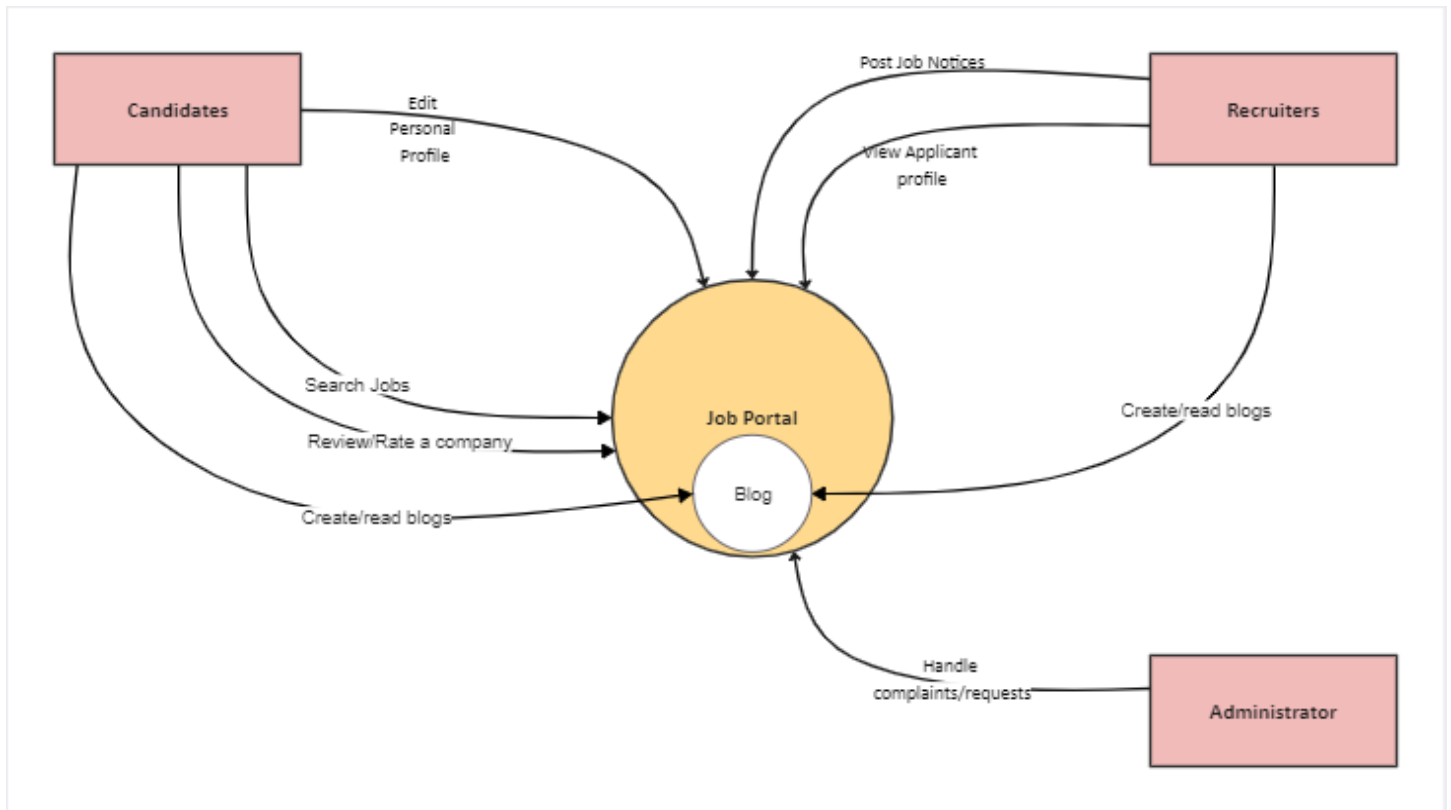
## 3 Problem Statement

The aim of the project is to build a website to connect job seekers with potential employers with tools to create profiles, search for and apply to job listings, and receive job alerts. Employers can use the platform to post job openings, browse resumes, and contact candidates.

In job portals, there is no foolproof way to filter all fake job notices, as scammers are constantly finding new ways to bypass the current filtering system and post fake notices. In order to handle such problems, this job portal will verify the authenticity of job notices.

## 4 Project Description

As mentioned earlier, for the beta version this project will be able to support a small number of users utilizing all the available resources to the utmost.



**Context Diagram**

As shown in the above diagram, the website can be accessed by multiple users who can login/signup on the website and can browse and apply for the jobs as a job seeker or post a job as a recruiter.

They can also read and write blogs in the blogs section. For job seeker's, they will also be able to provide their ratings and reviews regarding the company and their work environment or about their experience in the interview process.

## 4.1 Scope of the Work

The project will allow users to Login/Signup onto the Platform. The Signup process will include the authentication/authorization by the server. In case of a recruiter signup, they will be asked for their company information. On Successful Login the user will be redirected to home page of the platform and from there the control is in the hands of the user. The options are browsing the job listing, editing their profiles, reading/writing blogs, posting job notices, applying for jobs, searching jobs, tracking application.

## 4.2 Project Modules

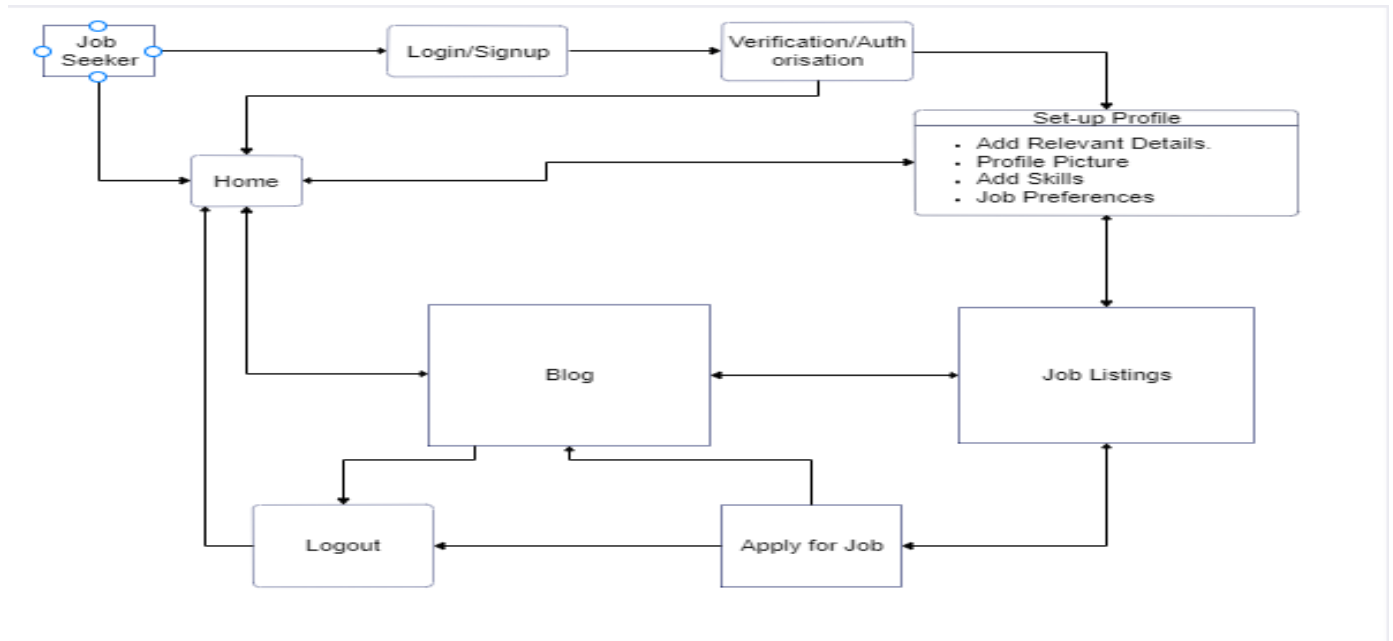
The project backend will contain the following modules:

1. Database- It contain the database schema file and the models for each document in the MongoDB cluster.
2. Entities- It contain the routes for the project as well as the Controllers and services.
3. Node Modules-contains node modules installed during node setup.
4. Static- It will contain the static files used in the projects like scripts, CSS files, images, etc.
5. Middleware-This directory contains the middlewares that will be used in the server for proper navigation and for implementing certain functionalities.
6. Uploads- It contains the files that will be uploaded by the users.
7. Views- It will contain the views of the website.
8. Index.js- It is the main setup file for the server.
9. Package.json- these files contain information regarding the project like author name, dependencies, text scripts, etc.

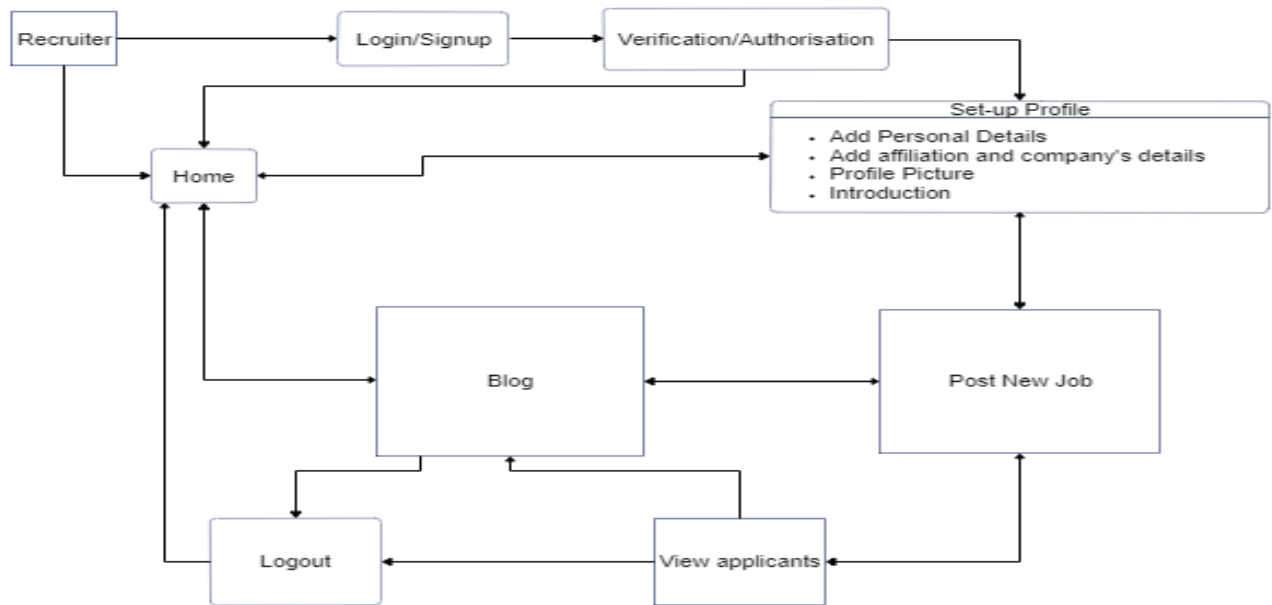
The project frontend will contain the following modules:

1. Public-contains static files such as index. html, java script library files, images, and other assets, etc. which you don't want to be processed by web pack.
2. Src-contains working files that will be used later to create the build.

## 5 Implementation Methodology



**Data Flow Diagram (Job Seeker)**

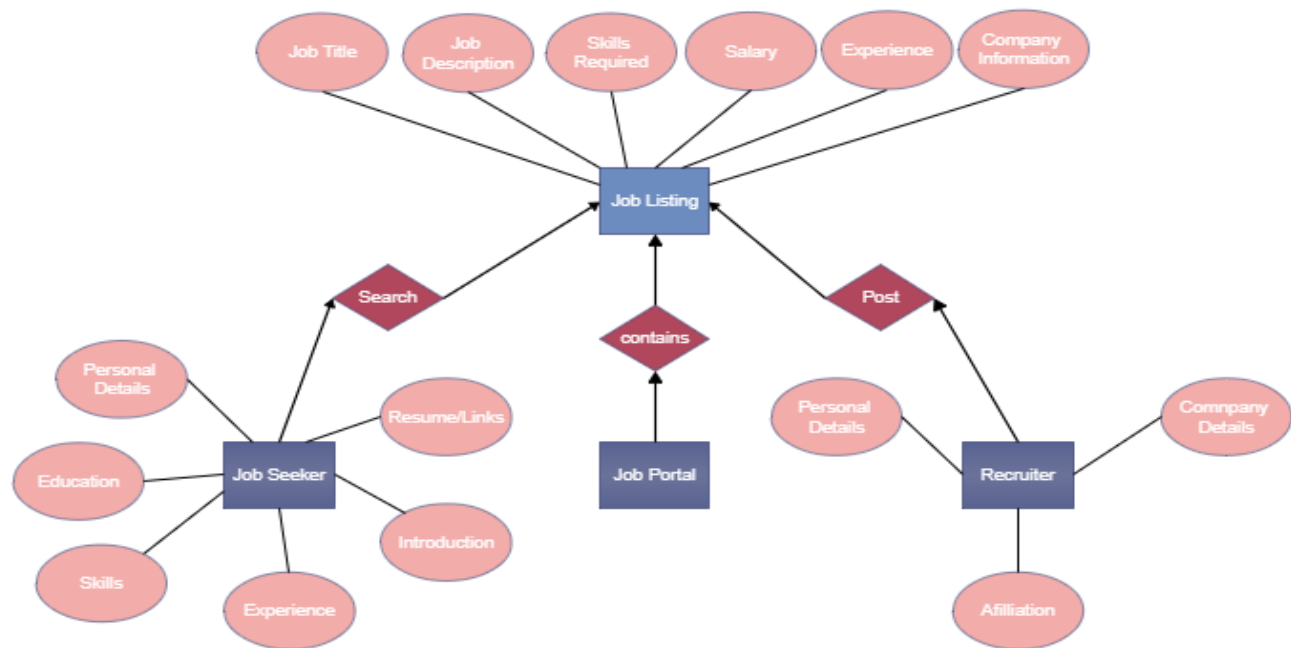


**Data Flow Diagram (Recruiter)**



The above diagrams show the **data flow** from the moment user logs in to the website till they logout.

The user will land on the home page from where user can navigate the website and explore the job listings and search for jobs as needed. On successful login, they will be routed to home page else they will be redirected back to the login page for signup or in case of invalid credentials. From the home page user can then proceed to create their profile or navigate through the site to the blogs section where they can read/write blogs. They can apply for jobs or post a job notice (for recruiters). The recruiters will be able to view the list of applicants for their notice.



ER Diagram

The image contains the rough **ER diagram** for the MongoDB documents:

There are 3 strong entities, i.e., job portal, recruiter, job seeker. All of these have some relationship with the weak entity Job Listing. Each of these entities have their own attributes that will completely describe their behavior and use.

## 6 Technologies to be used

The following technologies are utilized for this project. This list may change as need for more features/improvements arises in the future.

## 6.1 Software Platform

### a) Front-end

- HTML5- HTML5 is the latest and most enhanced version of HTML. HTML is the standard markup language for documents designed to be displayed in a web browser.
- CSS3- Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML.
- ReactJS- free and open-source front-end JavaScript library for building user interfaces based on UI components.
- Material UI/Tailwind CSS.

### b) Back-end

- NodeJS- open-source, cross-platform, back-end JavaScript runtime environment that runs on a JavaScript Engine and executes JavaScript code outside a web browser, which was designed to build scalable network applications.
- ExpressJS- back-end web application framework for building RESTful APIs with Node.js.

### c) Database

- MongoDB- cross-platform document-oriented database program.

## 6.2 Hardware Platform

- 4 GB RAM
- 500gb Hard Disk,
- Windows 10

## 6.3 Tools

During the planned development phase, the main tool is **VS Code v1.71** by Microsoft used as an editor for quick and precise development of the project, **Google Chrome v105.0.5195** by GOOGLE used as a tool for testing, debugging and front-end development.

# 7 Advantages of this Project

The main advantages of this project are:

- Candidates can view their past applications
- Users can read and write blogs.
- Through the Profile section, candidates can gain insight on where to improve in order to increase their chances for employment.
- Users can preview their profile preview.
- Recruiters can view the profiles of candidates.

## **8 Future Scope and further enhancement of the Project**

In the future according to the need/demands of the users, new features such as built-in ATS (Application Tracking System).

For the design improvements CSS extension language such as SCSS will be used to provide further compatibility with other browsers such as Opera, IE, MS Edge, Safari, etc.

## 9 Team Details

Project Name & ID	Course Name	Student ID	Student Name	Role	Signature
Job Portal Website	Major Project	TCA2055005	Purushartha Singh Thakur	Designer, Developer	
		TCA2055008	Tushar Kumar	Tester	

## 10 Conclusion

Through this Job Portal Website, I will tackle the problem of fake job notices to relieve potential job seekers of any worries and provide them with a trustworthy platform to pursue their careers. The recruiters can also easily interact with the candidates from within the portal saving them any hassle of going through other means of communication.

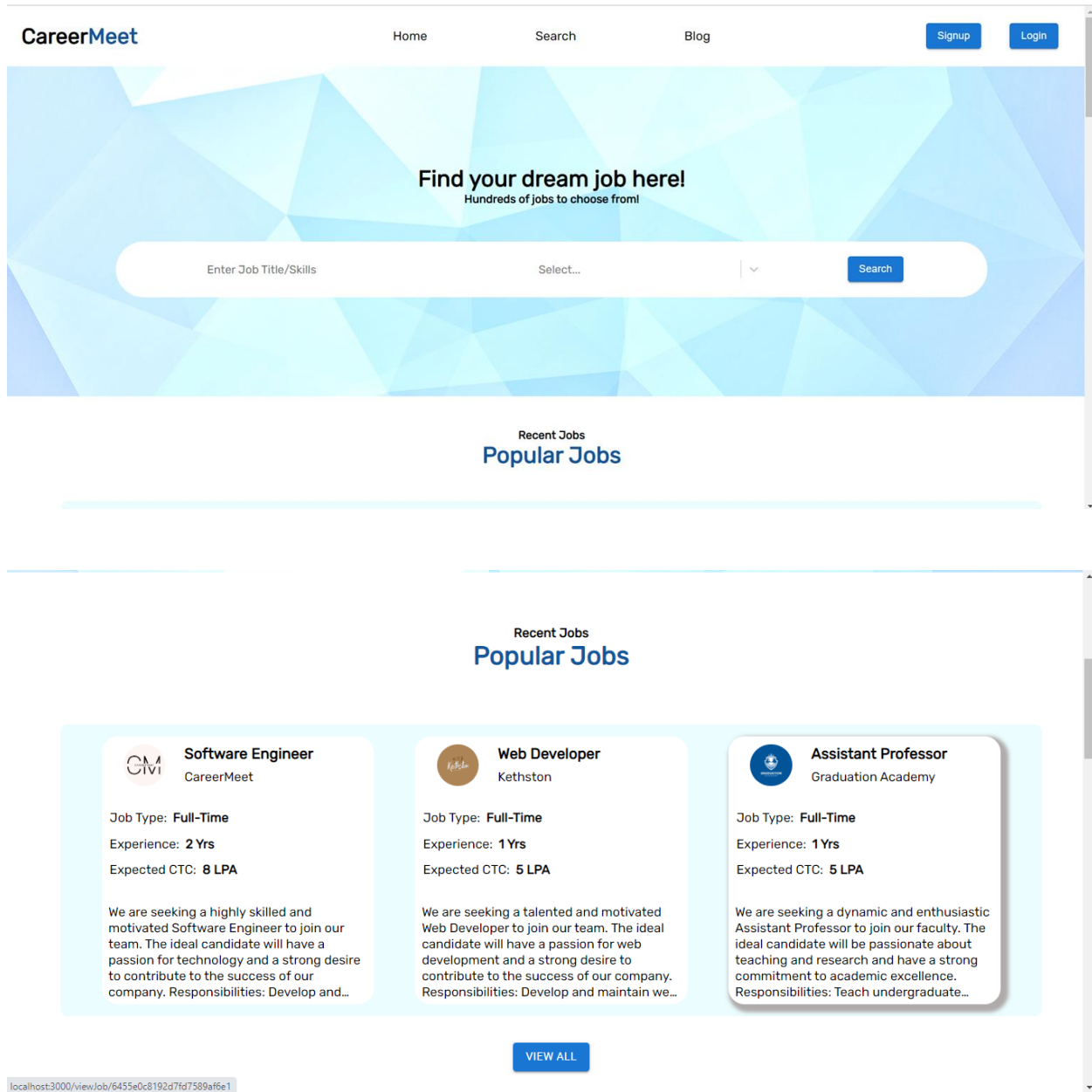
For future improvements, search will be optimized to make the results better suit the skills of the seeker and providing the recruiters with the best possible candidate to match their requirements.

## 11 References

1. <https://www.npmjs.com/>- The official Node Package Manager Website that will be used for downloading and utilizing the various dependencies.
2. <https://stackoverflow.com/>- The technical forum for any queries that arise during the development phase of the project.
3. <https://github.com/> - Service which has detailed wikis regarding similar projects.
4. <https://developer.mozilla.org/en-US/docs/Web/JavaScript>- A documentation repository to gain further knowledge on usage and implementation of various modules/functionalities in JavaScript, HTML5 and CSS3.
5. <https://css-tricks.com/>- Articles on efficient and improved usage of CSS properties to achieve the desired interface.
6. <https://www.mongodb.com/docs/>- Documentation for the MongoDB database and the details of the features , how to implement them.
7. <https://mongoosejs.com/docs/>- Documentation for the Mongoose module of NodeJS, used to define the schema of a NoSQL database, models and other such details.
8. <https://expressjs.com/>- Documentation for the Express module of NodeJS, provides detailed tutorial and best practices for the development of a project.

## 12 Project Outcome

### Home



Top Companies

## Prospective Employers



Our Blog

## Tips from our Members



### Resume Creation

Your resume is your ticket to a job interview. It is a document that highlights your skills, experience, and accomplishments. The purpose of a resume is to convince a hiring manager that you are the best candidate for the job. In this blog, we will guide you through the process of creating a winning resume. 1.

Our Blog

## Tips from our Members



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### Job Search

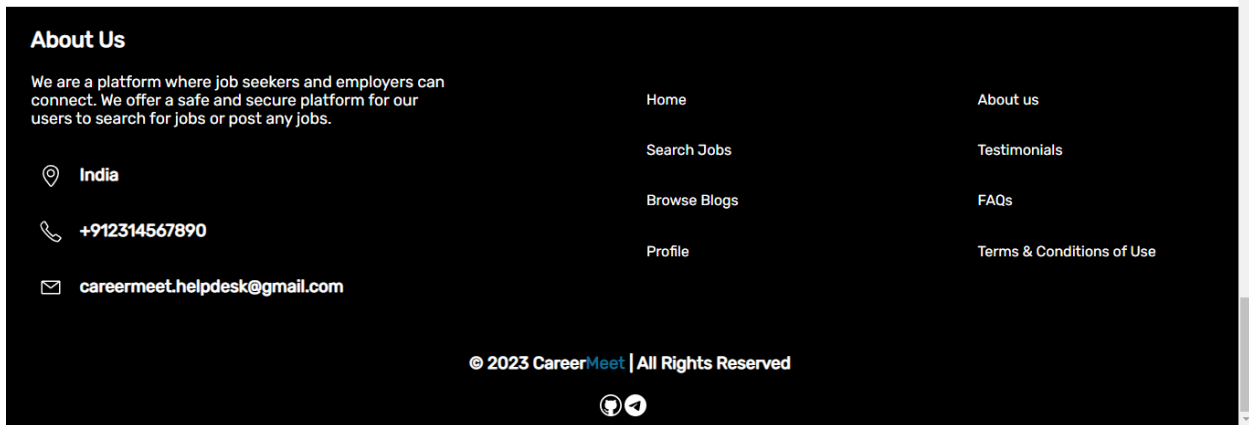
Job searching can be a daunting and overwhelming process, but it is a necessary step towards finding the right job for you. In this blog, we will guide you through the process of job searching and provide tips for making the process more effective and efficient. 1. Determine Your Career Goals Before you start your job search, it's important to determine your career goals. Ask yourself what type of job you want, what industry you want to work in, and what skills and experience you have to offer. This will help you focus yo...

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CareerMeet

Computer-Science

Job Type: **Full-Time**  
Experience: **2 Yrs**  
Expected CTC: **8 LPA**


We are seeking a highly skilled and motivated Software Engineer to join our team. The ideal candidate will have a

**Software Engineer**  
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Computer-Science

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### Assistant Professor

Graduation Academy

Education

Job Type: **Full-Time**  
Experience: **1 Yrs**  
Expected CTC: **5 LPA**

We are seeking a dynamic and enthusiastic Assistant Professor to join our faculty. The ideal candidate will be passionate about teaching and research and have a strong commitment to academic excellence. Responsibilities: Teach undergraduate and/or graduate courses in Chemistry Develop and deliver course content and materials,...



### Interior Designer

Angel Housing

Architecture

Job Type: **Full-Time**  
Experience: **1 Yrs**  
Expected CTC: **4 LPA**

We are seeking a talented and creative Interior Designer to join our team. The ideal candidate will have a passion for design and a strong desire to create beautiful and functional spaces. Responsibilities: Meet with clients to determine their design preferences, requirements, and budget Develop design concepts and proposals, including sketches,...



### Librarian

Job Type: **Part-Time**  
Experience: **1 Yrs**  
Expected CTC: **3 LPA**

We are seeking a skilled and experienced Librarian to join our team. The ideal candidate will be passionate about books and knowledge, and have a strong commitment to customer service. Responsibilities: Assist library users in finding and using library resources, including books, periodicals, digital media, and online databases Provide reference and...

## About Us

We are a platform where job seekers and employers can connect. We offer a safe and secure platform for our users to search for jobs or post any jobs.



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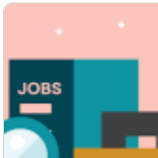
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#### Increasing Employability

In today's competitive job market, it's important to focus on increasing your employability to stand out from the crowd. Employability refers to your ability to gain and maintain employment through your skills, knowledge, and experience. In this blog, we will provide you with some tips to increase your employability and make yourself a more attractive candidate for employers. 1. Keep Learning and Developing New Skills Employers look for candidates who are willing to learn and adapt to new situations. Keep up with industry trends and developments by attending conferences, workshops, and...



#### How To Handle Interviews



### How To Respond To Call And Email From Employer

Responding to calls and emails from employers is an essential part of the job search process. Whether you are following up on an application, scheduling an interview, or negotiating a job offer, it's important to respond promptly and professionally. In this blog, we will provide you with some tips to help you respond to calls and emails from employers effectively.

1. Respond Promptly Respond to calls and emails from employers as soon as possible, preferably within 24 hours. This shows your interest in the job and your commitment to timely communication. If you are unable to respond right away,...

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## Signup (Candidate)

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Candidate

Employer



Full Name

Email ID

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Confirm Password

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## Signup (Employer)

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Blog

Signup

Login

Candidate

Employer

Full Name

Company Email

User Email

Password

Confirm Password

☐ Show Password

Signup



## Login

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Login



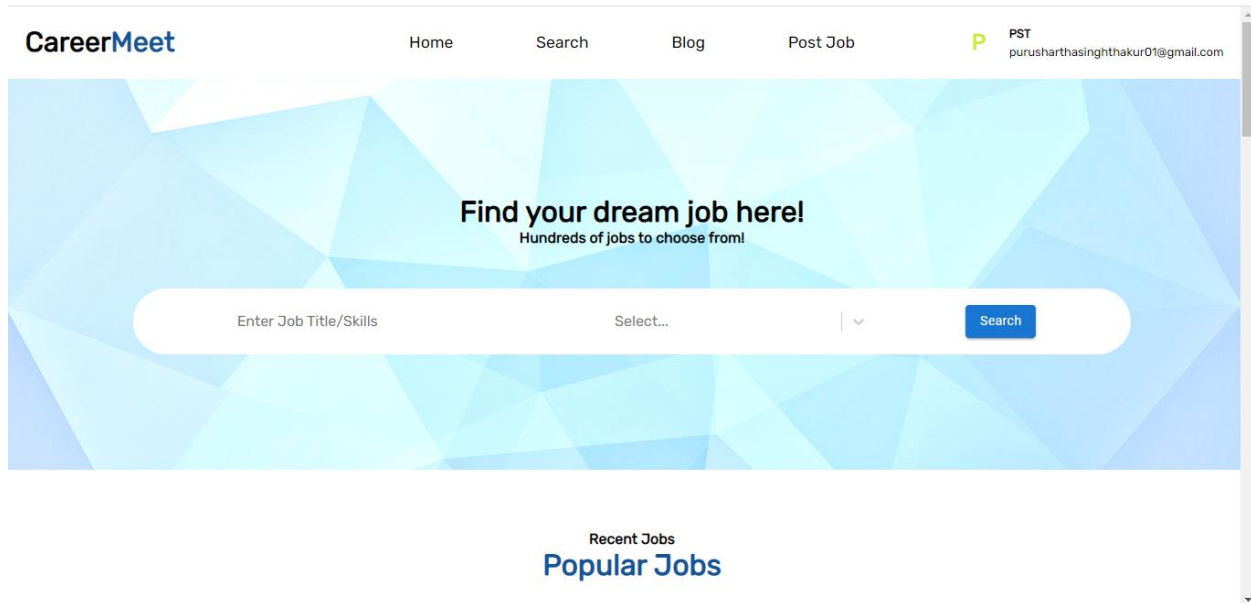
### Login(Candidate/Employer)

☐ Show Password

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## Authenticated Home (After user login)



## Blog (After user Login)

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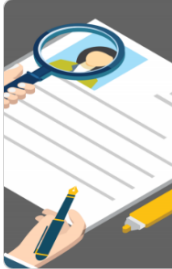
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#### Resume Creation

Your resume is your ticket to a job interview. It is a document that highlights your skills, experience, and accomplishments. The...



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Blog Image



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Blog Image

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Blog Content

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Full Name

Phone number

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New Password

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Activity History

Posted Jobs

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## Applied Jobs

**Web Developer**  
Kethston

Computer-Science

Job Type: **Full-Time**Experience: **1 Yrs**Expected CTC: **5 LPA**

We are seeking a talented and motivated Web Developer to join our team. The ideal candidate will have a passion for web development and a strong desire to contribute to the success of our company. Responsibilities: Develop and maintain web applications that meet business requirements and customer needs. Collaborate with cross-functional teams to design, develop, and

localhost:3000/viewJob/6455dfaa192d7fd7589af6df

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Account &amp; Security

Activity History

Posted Jobs

Help &amp; Support

Log Out

## Posted Jobs

**Software Engineer**  
CareerMeet

Computer-Science

Job Type: **Full-Time**Experience: **2 Yrs**Expected CTC: **8 LPA**


We are seeking a highly skilled and motivated Software Engineer to join our team. The ideal candidate will have a passion for technology and a strong desire to contribute to the success of our company. Responsibilities: Develop and maintain software solutions that meet business requirements and customer needs. Collaborate with cross-functional teams to design, develop, and



Applicants

1. Applicant(username): Tushar kumar Applicant Profile: [View Here](#)

## Profile Preview



### Purushartha Singh Thakur

Aspiring Software Developer

✉ : purusharthasinghthakur01@gmail.com  
🌐 : [View LinkedIn](#)  
🔗 : [View Portfolio/Github Profile](#)

### Skills

MERN stack HTML CSS Javascript Python C++ Andoid Java

### Education

Course: Intermediate(10+2)  
Institute: Maria Assumpta Convent School  
Passing Year: 2020

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Company: CodeQuotient  
Designation: Full Stack Development Intern  
Duration: 3 months

Company: The Sparks Foundation  
Designation: Web Developer Intern  
Duration: 1 month

### Projects

Project Title: Job Portal Website

## Experience

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**Designation:** Full Stack Development Intern  
**Duration:** 3 months



**Company:** The Sparks Foundation  
**Designation:** Web Developer Intern  
**Duration:** 1 month



## Projects


**Project Title:** Job Portal Website  
**Project Link:** [Visit Repository](#)  
**Skills used:** MERN stack CSS




**Project Title:** Music Streaming Website  
**Project Link:** [Visit Repository](#)  
**Skills used:** NodeJS Express HTML CSS EJS





## Profile



**Purushartha Singh Thakur**  
Aspiring Software Developer

 : purusharthasinghthakur01@gmail.com

 : [View LinkedIn](#)

 : [View Portfolio/Github Profile](#)

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**Designation:** Web Developer Intern  
**Duration:** 1 month

## Projects

**Project Title:** Job Portal Website  
**Project Link:** [Visit Repository](#)  
**Skills used:** MERN stackCSS

**Project Title:** Music Streaming Website  
**Project Link:** [Visit Repository](#)

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purusharthasinghthakur01@gmail.com

### Create Job Post

Job Title:

Job Title

Category:

Select Job Category

Job Location:

Job Location

Job Type:

Select Job Type

Skills Required:

Eg: HTML,CSS,JS

Experience:

In yrs. Eg: 2

Education:

Eg: MCA/B.tech

Shift-Timing:

Eg: 9am-5pm

Job Description:

Job Description

Contact Email:

Contact Email

Company Name:

Company Name

Company Logo:

Choose File

No file chosen

Address

Company Address

Company Website:

Website/Brief Introduction

Submit

## View Job Post

### Software Engineer

CareerMeet  
Bangalore

Category: Computer-Science

Education: B.Tech/MCA

Experience Required: 5 Yrs

Salary: 8 LPA

Benefits: Health Insurance, Monthly Bonuses

Shift-Timings: 9am-5pm

Skills Required: Java /Python/ C++ MySQL/PostgreSQL/MongoDB Jenkins/Docker/Kubernetes  
React/Angular/Vue

Apply



CareerMeet

Address: Kashipur

Recruiter: PST

Contact Info: purushartha3011@gmail.com

About Company: [Visit Website](#)

#### Job Description:

We are seeking a highly skilled and motivated Software Engineer to join our team. The ideal candidate will have

#### Job Description:

We are seeking a highly skilled and motivated Software Engineer to join our team. The ideal candidate will have a passion for technology and a strong desire to contribute to the success of our company.

##### Responsibilities:

- Develop and maintain software solutions that meet business requirements and customer needs
- Collaborate with cross-functional teams to design, develop, and implement new features
- Write clean, efficient, and well-documented code using best practices
- Conduct code reviews and ensure high code quality standards are met
- Troubleshoot and debug issues in a timely and efficient manner
- Stay up-to-date with emerging trends and technologies in software development
- Participate in agile development practices, including daily stand-ups, sprint planning, and retrospectives

##### Qualifications:

- Bachelor's degree in Computer Science or related field
- Minimum of [insert number of years] years of experience in software development
- Strong proficiency in one or more programming languages, such as Java, Python, or C++
- Experience with web development frameworks such as React, Angular, or Vue
- Solid understanding of software development principles and design patterns
- Experience with agile development methodologies
- Excellent communication and collaboration skills
- Ability to work independently and as part of a team