

FINAL YEAR PROJECT PROPOSAL



TRIBHUVAN UNIVERSITY
INSTITUTE OF SCIENCE AND TECHNOLOGY
GODAWARI COLLEGE, ITAHARI

A Project Proposal on JOB PORTAL

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Certificate

This is to certify that this project has been carried out under our supervision.

Declaration

I hereby declare that this project is my original work.

Acknowledgement

In the accomplishment of this project successfully, many people have best owned upon me their blessings and the heart pledged support, this time I am utilizing to thank all the people who have concerned with this project. Primarily I would like to express our special thanks of gratitude to our teachers and supervisor Mr. Randhir Singh who gave me the opportunity to do this wonderful project on the topic Online Job Portal, which also helped me in doing a lot of research and I came to know about so many new tools and technologies. The project member's respect and thanks to our Head of Department Randhir Singh, for providing us an opportunity to do this project and providing all those supports. Secondly, I would also like to thank our all teachers, parents and friends who helped me a lot in finalizing this project within the limited time frame.

Yours sincerely,
Nikesh katuwal
Dinesh chauhan
Chiranjibi dulal

Abstract

I would like to express my sincere gratitude to my supervisor. Our project is about the job portal that will help for both the job seekers and the job provider. The Job Portal Website is a web-based application designed to automate and streamline the recruitment process for job seekers and employers. The system provides a centralized platform where employers can post job vacancies and manage applications, while job seekers can search for jobs, upload resumes, and apply online. The proposed system reduces manual effort, improves communication, and enhances the efficiency and accuracy of recruitment activities. Developed using open-source technologies, the job portal ensures data security, scalability, and user-friendly interaction. This project aims to provide an effective solution to modern recruitment challenges by connecting the right candidates with the right opportunities in a timely manner.

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1 Introduction

As today's world is being digitalized, we are more focused on the improvement of technology so that it can make our daily life easier. This is the report design for the project on developing the web-based application on Online Job Portal. Online Job portal is a website used to provide a good platform for employer to post their job vacancies and employee upload their resume to get an applicable job for their career. Now a days searching for a good job is very difficult task for everyone so the portal is developed for helping people who is searching for a job according to their qualification. Also, there are a lot of companies that want to hire a qualified employee for their company. This job portal will help both parties to meet in one platform and fulfill their requirement. Traditionally, if an employee wants to find a job, then s/he have to visit different companies which was slow, difficult and stressful process. And also, if an employer wants to find an employee for their company than they have to advertise in different platform which was also slow process. But now a days it is possible in just few clicks with the help of these job portal websites.

These project help people to find their dream job easily and a company to find a qualified employee. In these projects we are making a user-friendly interface so that user can easily use it. We have use two algorithms in this project. They are searching algorithm . In searching algorithm, we have used linear searching algorithm. This website allows CRUD operation which makes it more flexible to use. User can create their account on website and update their information like job vacancy. The vacancy post by one employer can be seen by other employee who will be interested to apply job. If the employee applied and get the job their status will be changed to hire. Not only single user but also businesses and organizations can log in and access or search any information that job seekers have uploaded. Overall, it functions as a platform that allows both companies and job seekers to post, compile, and search for the information they need. []

2 Problem Statement

Existing recruitment systems are largely manual or semi-automated, leading to inefficiency, data redundancy, delayed communication, and limited reach. Job seekers often struggle to find relevant opportunities, while employers face difficulties in managing applications and identifying suitable candidates. These challenges highlight the need for a robust, automated, and scalable job portal system .

The problem of online job portal is listed below:

- Limited Job Matching Accuracy
- Insufficient Communication and Collaboration
- Inefficient Application Process

2.1 name

Online Job Portal

2.1.1 cast

Job Seekers

Employers / Recruiters

System Administrator

3 Objectives

- To analyze the limitations of the existing recruitment systems
- To design and develop an efficient online job portal
- To provide an easy-to-use platform for job posting and job searching
- To ensure data security, privacy, and reliability
- To improve the efficiency and accuracy of the recruitment process

4 Methodology

4.1 Requirement Identification

4.1.1 Study of Existing System / Literature Review

Various existing job portal systems and recruitment platforms were reviewed to understand their features, workflows, and limitations. The study revealed issues such as poor user experience, lack of advanced search features, and inadequate data security mechanisms.

4.1.2 Requirement Analysis

Based on the study, the following requirements were identified: Functional Requirements:

- User registration and login (Job Seeker and Employer)
- Job posting and job application management
- Resume upload and profile management
- Job search and filtering options
- Application tracking and notifications

Non-Functional Requirements:

- System security and data privacy
- High performance and scalability
- User-friendly interface
- Reliability and availability

4.2 Feasibility Study

4.2.1 Technical Feasibility

The system will be developed using open-source technologies such as Reactjs, Expressjs, Nodejs, PHP, and MongoDB. These technologies are widely supported, reliable, and suitable for developing a scalable web-based application..

4.2.2 Operational Feasibility

The proposed system is easy to operate and does not require extensive technical knowledge from users. Basic training or guidance will be sufficient for job seekers and employers to use the system effectively.

4.2.3 Economic Feasibility

Since the system uses open-source tools and technologies, the development and maintenance cost is minimal. This makes the project economically feasible and cost-effective.

4.2.4 Schedule

The project schedule will be represented using a Gantt chart, outlining activities such as requirement analysis, system design, development, testing, and documentation within the defined project timeline.

4.3 High Level Design of System

4.3.1 Methodology of the proposed system

The proposed system follows a modular and structured development approach. Each module, such as user management, job management, and application tracking, is designed independently to improve maintainability and scalability.

4.3.2 Flow Charts

Flowcharts will be used to represent the logical flow of processes such as user registration, job posting, job searching, and application submission.

4.3.3 Working Mechanism of Proposed System

Job seekers register on the portal, create profiles, upload resumes, and apply for jobs. Employers register, post job vacancies, and review applications. The administrator manages users, job postings, and system security. The system ensures efficient interaction between all stakeholders.

4.3.4 Description of Algorithms

The system uses search and filtering algorithms to match job seekers with relevant job postings based on skills, location, and experience. Secure authentication and data validation algorithms are implemented to ensure accuracy, reliability, and security. The proposed system will significantly improve efficiency and accuracy in the recruitment process [1].

5 Expected Outcome

5.1 Employer Subscription Plans

- Employers can be charged monthly or yearly fees to post job vacancies, access candidate databases, and use premium recruitment tools.

5.2 Paid Job Postings

- Companies may pay for featured or highlighted job listings to increase visibility and attract more candidates.

5.3 Advertisement Revenue

- Advertisements related to training institutes, career counseling, and professional services can be displayed on the platform for additional income.

5.4 Premium Services for Job Seekers

- Optional paid services such as resume boosting, profile highlighting, and career guidance can be offered to job seekers.

5.5 Corporate Partnerships

- Collaboration with companies and recruitment agencies can provide additional income through service agreements.

[?]

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