

FINAL YEAR PROJECT PROPOSAL

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

I would like to express my sincere gratitude to my supervisor.

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

With the rapid growth of internet technologies, recruitment processes are shifting from traditional methods to online platforms. An Online Job Portal System provides a centralized platform where job seekers can search and apply for jobs, and employers can post vacancies and manage applications efficiently. This project proposes the development of a web-based Job Portal using the MERN stack (MongoDB, Express.js, React.js, Node.js). []

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 .

2.1 name

Online Job Portal Management System

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.

[1]

REFERENCES

- [1] J. Redmon, S. Divvala, R. Girshick, and A. Farhadi, “You only look once: Unified, real-time object detection,” in *Proceedings of the IEEE conference on computer vision and pattern recognition*, 2016, pp. 779–788.