A MINI-PROJECT REPORT OF

JOB PORTAL

SUBMITTED TO THE SAVITRIBAI PHULE PUNE IN PARTIAL FULFILLMENT OF THE REQUIREMENT AWARD OF THE DEGREE

THIRD YEAR OF COMPUTER ENGINEERING SUBMITTED BY

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UNDER THE SUPERVISION

OF

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Academic Year: 2024-2025

FOR THE WEB TECHNOLOGY COURSE

Department of Computer Engineering

P.E.S Modern College of Engineering

Shivaji Nagar Pune- 05.



Progressive Education Society's Modern College of Engineering Shivajinagar, Pune - 411005.

CERTIFICATE

This is to certify that the following students of Computer Engineering of PES's, Modern College of Engineering have successfully completed their mini project and design of project entitled "Job Portal" under the guidance of the course instructor.

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ABSTRACT

The purpose of online Recruitment Management System is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data, information can be stored for a large period with easy access and manipulation of the same. The required software and hardware are easily available and easy to work with Online job portal, as described above can lead to error free, secure, reliable and fast management system. The Online Recruitment Management System, manage the details of Employer, Employer Registration, Posts about Jobs, Search Job. It manages all the information about Employer, Job Seeker, Search Job, Posts about jobs etc. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Employer, Employer Registration, Post Job. It tracks all the details about the Post Job, Search Job so on... The application storage of the data has been planned. Using the constructs of MYSQL Server and all the user interfaces have been designed using the PHP, HTML, CSS, BOOTSTRAP, JAVASCRIPT technologies. The database connectivity is planned using the "SQL Connection" methodology. The standards of security and data protective mechanism have been given a big choice for proper usage. The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff. A Recruitment Management System helps both the job seekers and recruiters finding the right organization for the employees. In the case of job seekers, according to their educational qualification, experience and their preferences, the Recruitment Management System shows the list of companies to the job seeker. And, to the recruiters, provides the suitable candidates from a pool of lacks. The objective of this application is to develop a system to enable interaction between employers and applicants. The determination is to allow communication between the interested parties and complete the task of recruitment quickly.

1. Introduction 4

CHAPTER 1

INTRODUCTION

1.1 Introduction of the project

Today, the internet has changed many aspects of our life, such as the way we look for jobs. If one person wants to find a new job, he/she can submit a resume using software like Microsoft Office Word, open a web browser to send the resume and receive an e-mail. Online recruitment has become standard method for employers and jobseekers to meet their respective objectives. The employers upload the job offerings in to the job portals. Online recruitment has been accepted not only by most of large companies but also the small ones. The organizations send information or jobs vacancies for posting on the portals and communicate with the applicants via the Internet and Email. The process that aims to match job seekers to suitable job opportunities. From an economic perspective, job-search theory is concerned with individual's decisions to accept or reject job offers given the cost of searching and the reservation wage. A sociological perspective on job search takes into account more aspects of the jobsearch process, motivating factors leading individuals to search and activities that lead to job offers being made.

1.2 The Present Study:

Unemployment is a serious social and economic concern almost all over the world. When people are gainfully employed it leads to social and economic well-being in the country. Unemployment is caused due to many reasons. Often there is a high level of unemployment despite persons being educated. It may be due to the lack of linkage between education and the requirements of jobs or job profiles. Often the education system gives a high level of emphasis to academics that may not ensure a job or profession later on. Dorn and Naz mentioned that the unfair distribution or lack of information on job opportunities so people are unable to know the new job vacancies. It means that there are some jobs available, but job seekers do not have access to that information. Therefore, educated youth stay unemployed. An efficient search of the internet might help job seekers in their job hunt. There are some web portals that provide an efficient way to search the web for online information on job vacancies for jobseekers.

1.3 Motivation to do the project work:

Economically, employment provides income to poor families, revives domestic demand for goods and services, and stimulates overall growth. Socially, employment can also promote social healing, encourage the return of displaced persons, and improve social welfare in the long run. This statement makes it clear the importance of developing an Online Recruitment Management System for job seekers.

2. **Literature Survey** 7

LITERATURE REVIEW

Sr.No	Paper Title	Theme/Idea	Advantages And Limitations
1	[1] A. K. Gupta and M. Sharma, "Design and Implementation of a Recruitment Management System Using PHP and MySQL," in Proc. Int. Conf. on Software Engineering and Applications, 2014, pp. 102-108.	This paper presents the architecture and database design of a Recruitment Management System developed using PHP and MySQL.	Advantages: Open-source technologies ensure costeffectiveness. Efficient database management and dynamic content handling. Limitations: Limited scalability and basic security measures are unsuitable for largescale deployments. Does not address mobile responsiveness.
2	[2] P. Raj and S. Kumar, "Online Job Portal with Recommendation System," in <i>IEEE</i> Trans. on Computer Applications, vol. 12, no. 3, pp. 45-50, 2019.	The paper explores the development of a recommendation engine for a Recruitment Management System using collaborative filtering to improve job seeker experience.	 Advantages: Personalized job suggestions improve user engagement. Reduces the search time for job seekers. Limitations: Requires a large dataset for accurate recommendations. May introduce biases based on user data patterns.
3	[3] M. Desai and P. Gupta, "A Secure Recruitment Management System Using Blockchain Technology," in <i>Proc. IEEE Int. Conf. on Blockchain and Cryptocurrency</i> , 2021, pp. 67-73.	•	Advantages:

4	[4] N. Singh and A. Rao, "Design of a Recruitment Management System	This paper discusses the design of a mobile first	 Advantages: Mobile accessibility for underrepresented communities. Simple user interface optimized for low
Employment U Mobile Interface Proc. IEEE Int. Conf. of Mobile and	Employment Using Mobile Interface," in Proc. IEEE Int. Conf. on Mobile and Ubiquitous Systems,	Recruitment Management	bandwidth environments. Limitations: Lacks complex job search features due to mobile design constraints. Relies heavily on network availability, limiting its usability in very remote areas.
5	[5] D. Patel, R. Verma, and L. Mehta, "A Comparative Study of Job Portals Based on User Experience and Functionality," in <i>IEEE Access</i> , vol. 8, pp. 34532-34540, 2020.	This paper provides a comparative analysis of popular job portals in terms of user experience, interface design, and functional features.	 Advantages: Offers detailed insights into best practices for Recruitment Management Systemdesign. Focus on user interface and navigation improves usability. Limitations: Does not provide technical details about implementation. Analysis is limited to a few top-tier job portals.
6	[6] S. Ali and T. Kumar, "Recruitment Management System with Artificial Intelligence for Matching Skills with Job Requirements," in <i>IEEE Trans. on AI in Industry</i> , vol. 5, no. 2, pp. 124-130, 2022.	This paper discusses the integration of AI in job portals for automatic skill matching between job seekers and job descriptions using natural language processing (NLP).	 Advantages: Efficient job matching based on skills and experience. Reduces the workload for recruiters. Limitations: High computational cost due to advanced AI algorithms. Limited accuracy in niche job markets.

Data And Tools 10

DATA AND TOOL

3.1 Hardware

The hardware used to build this project are follows:

• RAM: 4GB or above

• Hard disk: 20GB and above

• Processor: 2.4GHz and above

• Memory: 4GB recommended

• Display: Standard output display

3.2 Software

The software used to build this project are follows:

- Operating System: Windows 7 or above
- Database Management tool: Xampp
- Integrated Development Environment: Visual Studio or Net Beans
- Browser: Chrome or any browser

The minimum software requirements to run the project: Any browser.

Script used to build project:

- HTML, CSS, BOOTSTRAP: To design User Interface
- **JAVASCRIPT**: To make web pages interactive
- PHP: To connect front-end and back-end
- MYSQL: To create and manage database.

3.3 Platform

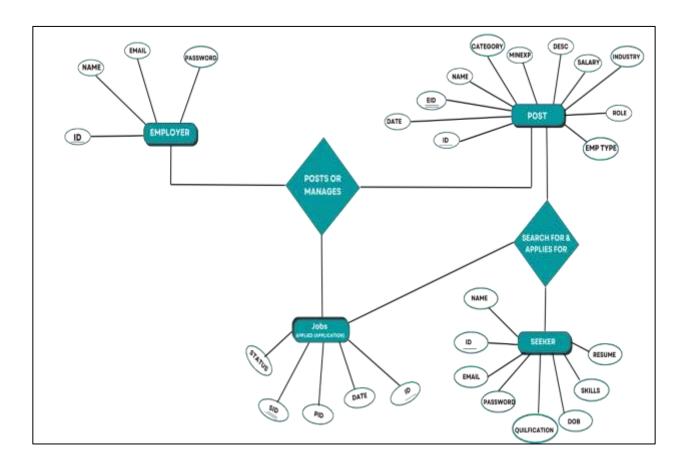
This web application is browser independent it could be run on any of the available browsers. This application accessibility is also extended to Android and iOS devices in the form of device application.

Therefore, it could also be run as Android or iOS application.

ER Diagram 12

ER DIAGRAM

The ER Diagram of Online Recruitment Management System is shown in fig (4.1)



Fig(4.1)

The Entity Relationship model describes interrelated things of interest in specific domain of knowledge. In the fig (4.1), we have an employer who will post various jobs and manages all of them, and that post is also viewed by the seeker or seeker can search for specific job posts to apply. Employer can also manage seeker's job applications.

5. Problem Formulation

PROBLEM FORMULATION

5.1 General Problem Definition

Today, almost every action in the world is managed by a computer-based software program. As the life cycle became more complicated, various software systems, such as real-time business simulation, embedded, web-based, personal, and more recently artificial intelligence software, began to infiltrate every aspect of human contact. The manual method is in a nutshell, excruciatingly slow. We created this initiative for that reason. As a result, person can quickly search 1000+ jobs with and then can determine which is best for him without the assistance of others.

5.2 Problem statement

In the upgrading generation, manually finding jobs by using newspapers or asking others about vacancies is difficult. So online job portals will assist both companies and job seekers in finding the right place for them. From the comfort of their own homes. The job seeker can view all of the company's amenities and make the best decision possible. Employer can also find the best employees which they want.

5.3 Aim of the project

The aim of this application is to reduce the manual effort needed to find the best jobs and their details. A Recruitment Management System provides an efficient search for online information on job vacancies for jobseekers. The main goal of this online Recruitment Management System is to attempt to produce the right graduates get hired based on the industry needs.

5.4 Main Objectives of the Project:

Single platform for viewing the job details.

Enabling a user-friendly application.

The purpose of the project is to reduce the manual work for managing the Interview, Jobseeker, Posts about Job etc.

It helps to manage all the information about the employer & job seeker.

It acts as a bridge between job seekers and companies.

All the records of employee are seen by the employer in order to provide job for the Employee.

Methodology

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METHODOLOGY

6.1 General

PHP and MySQL will be used to create this project. The user interface is made simple to use with graphics, allowing this application to be used by a wide spectrum of users. By registering, you will be able to see the numerous types of jobs that are available. The major goal of this program is to provide users with detailed job information.

Admin will be given access to the database where he can access all the information of employer, seeker etc. And can track all the information related to the job posts. He can also search for the jobs added by the job provider that are available. Job Seeker register himself by filling the required details on the job portal. After login he will search for the job on various conditions and he can apply for the jobs based on various conditions. He can see the response of the company and he can contact the company for interview. Job Provider register himself and his company and after login he will add new job posts and he can search for the job seekers on various condition and he can offer the job to job seeker according to the job profile and he can also see the response from the job seekers. The employers can view the job seekers who have applied through their posted job and they can accept or reject the application. The status of job application can be viewed by respective job seeker. So here we are concerned with the probability of jobs being offered and the probability of jobs being offered and the probability of jobs being offered and the probability of jobs being accepted.

6.2 Data Flow diagram

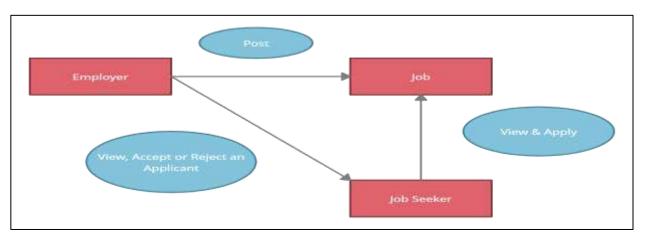


Fig 6.2(A) System Design

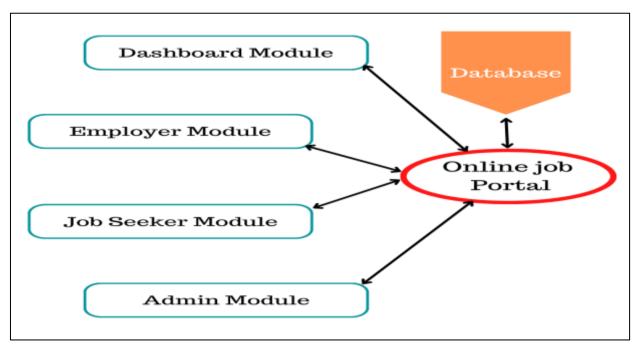


Fig 6.2 (B) Modules

6.3 Database Table

The database table figure is shown in fig 6.3(A)

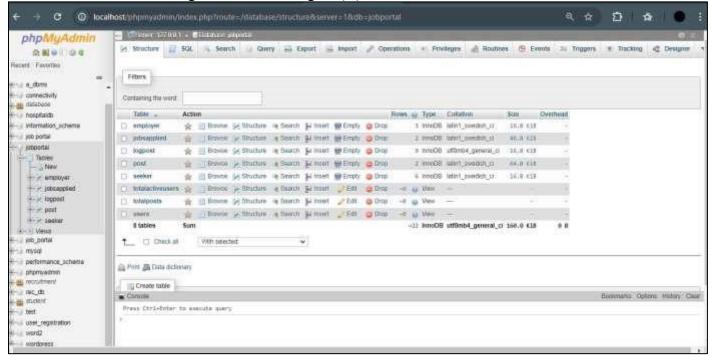


Fig 6.3 (A) Snapshot of Tables

The Fig 6.3(B) shows Employer table

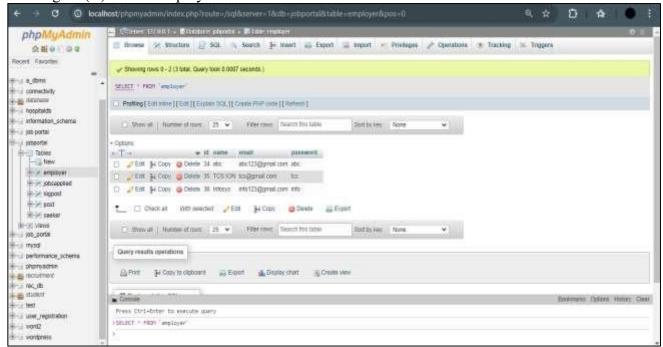


Fig 6.3 (B) Snapshot of Employer Table

The Fig 6.3(C) shows jobs applied table

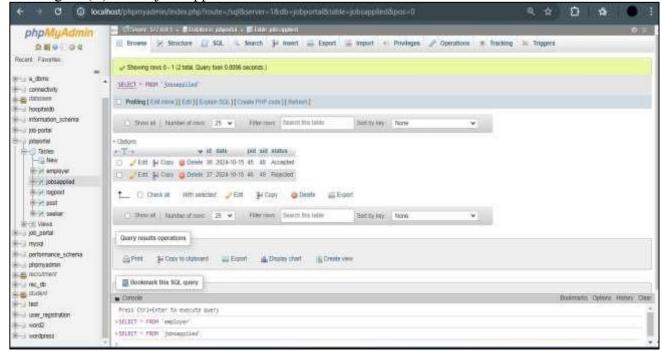


Fig 6.3 (C) Snapshot of Jobs Applied Table

The Fig 6.3(D) shows log post table

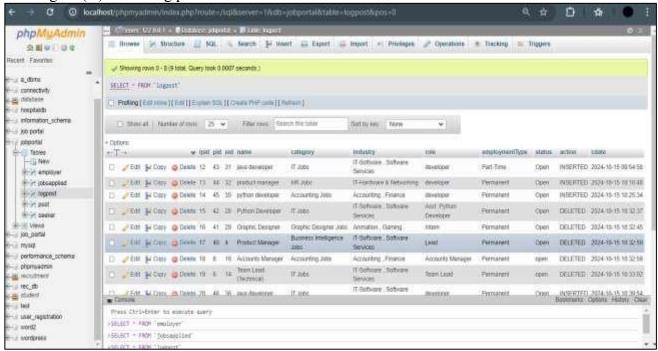


Fig 6.3 (D) Snapshot of Log Post Table

The Fig 6.3(E) shows post table

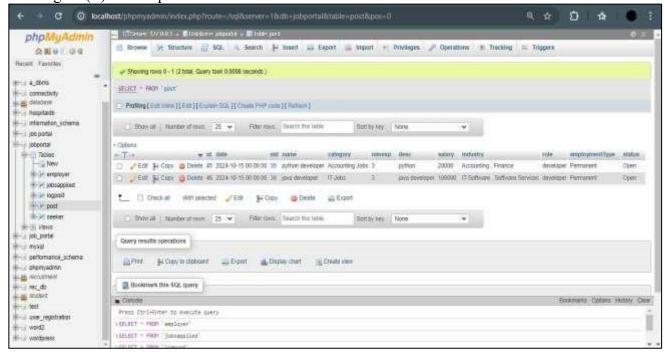


Fig 6.3 (E) Snapshot of Post Table

The Fig 6.3(F) shows seeker table

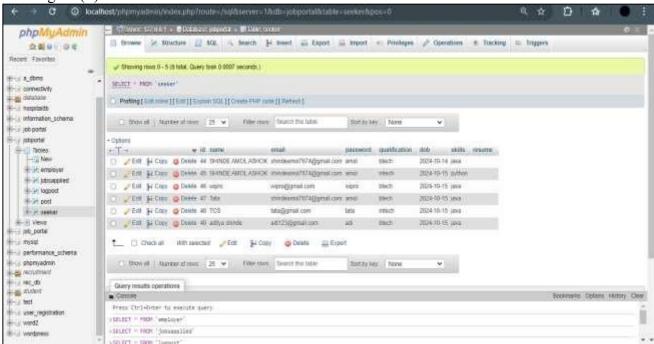


Fig 6.3 (F) Snapshot of Seeker Table

7. Results and Discussion 23

Results And Discussions

7.1 Dashboard

The Fig 7.1 (A) is the Home Page of Job Portal

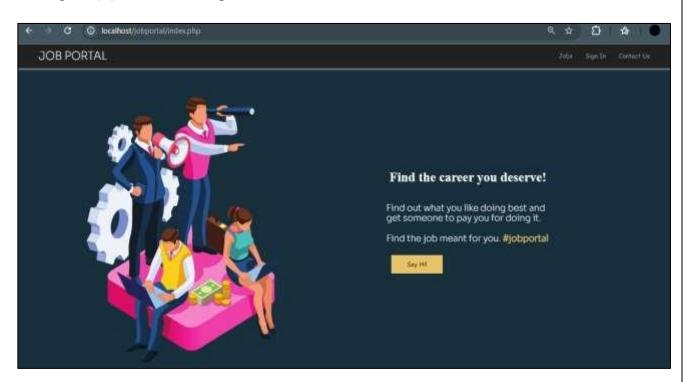


Fig 7.1 (A) Snapshot of Home Page

The Fig 7.1 (B) is the Home Page of Job Portal

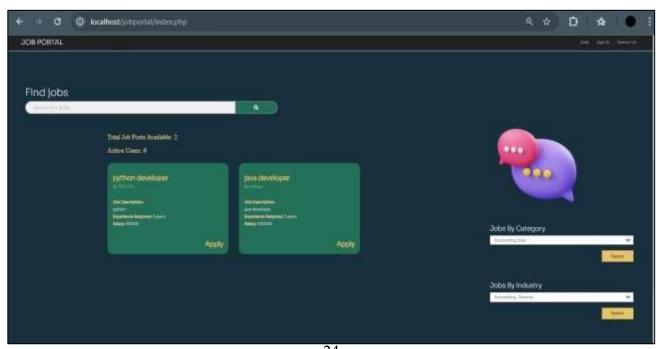


Fig 7.1 (B) Snapshot of Home Page

7.2 Sign In & Sign Up Page

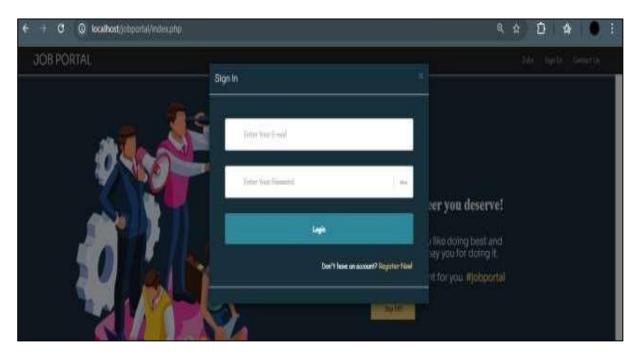


Fig 7.2 (A) Snapshot of Sign In

The Fig 7.2 (B) is the Registration page for Employer of Recruitment Management System

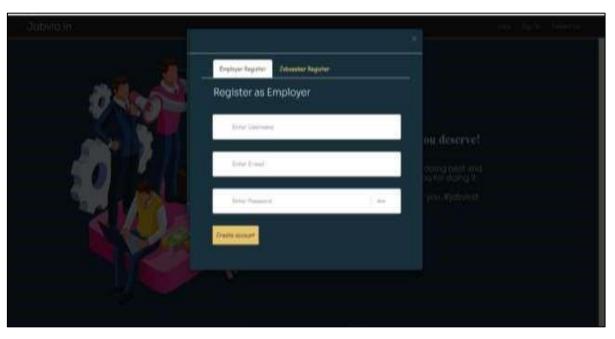


Fig 7.2 (B)Snapshot of Employer Register

The Fig 7.2 (C) is the Registration page for Job Seeker of Job Portal

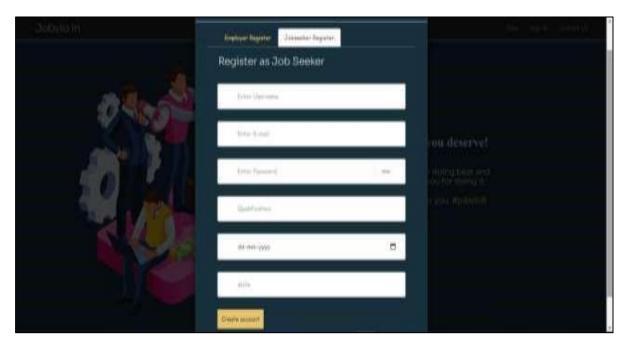


Fig 7.2 (C) Snapshot of jobseeker Register

7.3 Employer Account

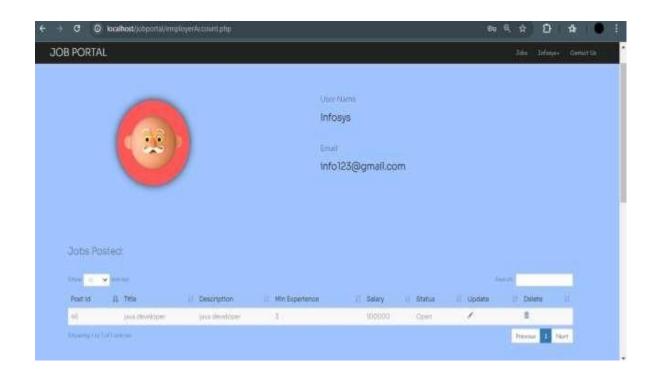


Fig 7.3 (A) Snapshot of Employer Account

7.3

The Fig 7.3 (B) is the page to post a job in the Job Portal

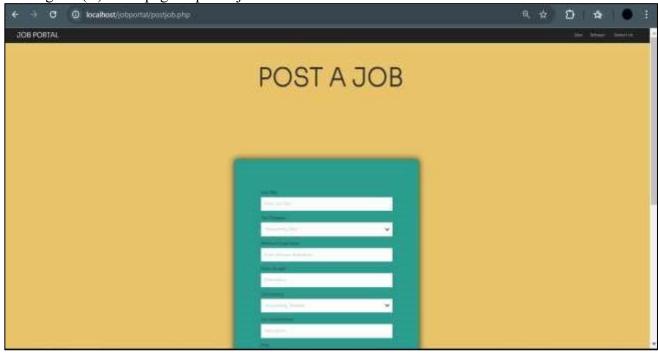


Fig 7.3(B) Snapshot of Job Pos

The Fig 7.3 (C) shows the Application of job seekers in the Job Portal

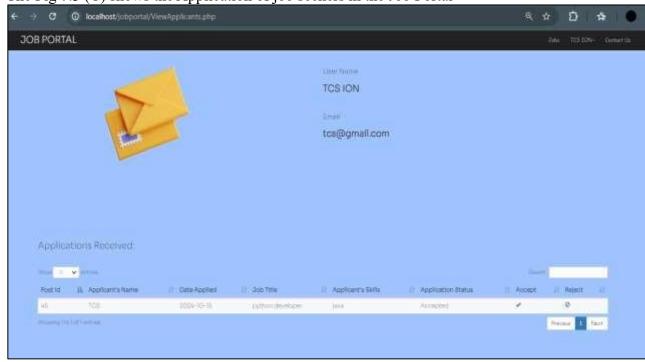


Fig 7.3 (C) Snapshot of Employer Account

7.4 Seeker Account Page

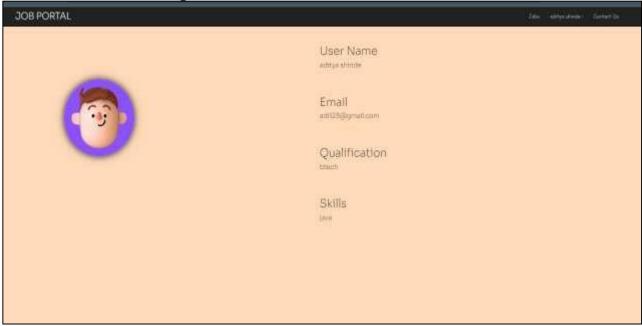


Fig 7.4 (A) Snapshot of Seeker Account

Jobs applied by the seeker is shown in Fig 7.4 (B)

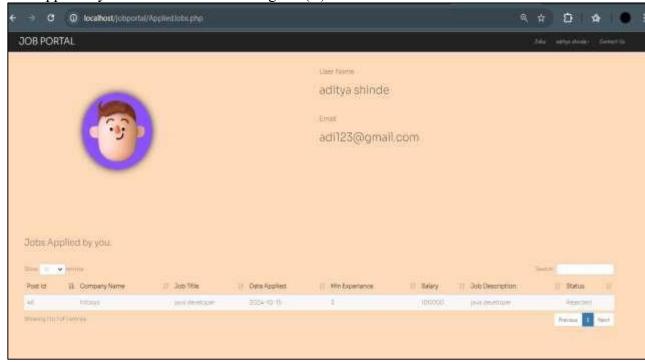


Fig 7.4 (B) Snapshot of Seeker Account

7.5 Footer



Fig 7.5 (A) Snapshot of Footer

8. Conclusion

CHAPTER 8

Conclusion

Analyses of different methods of job search used and their efficacy should provide information that can be used for developing better ways of helping unemployed job seekers find employment. Moreover, knowledge about the factors surrounding typically unsuccessful job search could help individuals and labour market intermediaries to channel their resources more effectively. While the Internet has become seemingly ubiquitous in job search for the highly qualified and for those in professional and associate professional occupations, it has also made important inroads in other segments of the labour market. It is used by a majority of job seekers from all occupational groups. A job web portal provides an efficient search for online information on job vacancies for jobseekers. The main goal of this portal is to attempt to produce the right graduates based on the industry needs. However, it is important that be aware the job web portals can never fulfil all the problems of jobless graduates.

References

CHAPTER 9

References

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The Group Members are:

Sr No.	Group Members	Roll Number
1)	Dhiraj Nanaji Khairnar	39036
2)	Prajwal Pradip Newase	39051
3)	Yashraj Anand Raipure	39061

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Date:

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