

# **Job Explorer System**

---



**By:**

**Farsan khan**

**22522**

**Saud Akbar**

**22661**

**Shahzaib Ishaq**

**30041**

**Supervised by:**

**Mr.Shahzad Ahmad khan**

**Faculty of Computing**

**Riphah International University, Islamabad**

**Spring 2024**

**A Dissertation Submitted To**

**Faculty of Computing,**

**Riphah International University, Islamabad**

**As a Partial Fulfillment of the Requirement for the Award of**

**the Degree of**

**Bachelors of Science in Software Engineering**

**Faculty of Computing**

**Riphah International University, Islamabad**

Date: Mar 21, 2024

## Final Approval

This is to certify that we have read the report submitted by *Farsan khan (22522)*, *Saud Akbar (22661)*, *Shahzaib Ishaq (30041)* for the partial fulfillment of the requirements for the degree of the Bachelors of Science in Software Engineering (BSSE). It is our judgment that this report is of sufficient standard to warrant its acceptance by Riphah International University, Islamabad for the degree of Bachelors of Science in Software Engineering (BSSE).

### Committee:

1

---

Mr.Shahzad Ahmad khan

(Supervisor)

2

---

Dr. Musharraf Ahmed

(Head of Department)

## **Declaration**

We hereby declare that this document “**Job Explorer System**” neither as a whole nor as a part has been copied out from any source. It is further declared that we have done this project with the accompanied report entirely on the basis of our personal efforts, under the proficient guidance of our teachers especially our supervisor **Mr.Shahzad Ahmad khan**. If any part of the system is proved to be copied out from any source or found to be reproduction of any project from anywhere else, we shall stand by the consequences.

---

**Farsan khan**  
**22522**

---

**Saud Akbar**  
**22661**

---

**Shahzaib Ishaq**  
**30041**

## **Dedication**

To our creator the one who deserves all unconditional praise and worship, the one who intends a thing to be, and it is, (Quran, 36:82) and to our loving and caring parents who have worked so hard to raise us, the friendships and the teachers who passed their wisdom onto us.

# Acknowledgement

First of all, we are obliged to Allah Almighty the Merciful, the Beneficent and the source of all Knowledge, for granting us the courage and knowledge to complete this Project.

We are thankful for our amazing supervisor Mr.Shahzad Ahmad khan for guiding us in our project, the rest of the faculty members that made treading this difficult path easy for us and the senior students at our university who proved to be a guiding light for us.

---

**Farsan khan**

**22522**

---

**Saud Akbar**

**22661**

---

**Shahzaib Ishaq**

**30041**

## **Abstract**

The job Explorer system is an innovative a comprehensive platform design to change the job search process, providing job seekers with a complete solution to navigate the dynamic and competitive job market. In a swiftly changing professional environment with numerous job options, numerous individuals encounters difficulties in grasping the complexities of the employer market, recognized appropriate career routes, and skillfully showcasing themselves to prospective employers. The job explorer system improves the job search and experience by integrating cutting-edge technologies and user-friendly functionalities.

The job explorer system is an advance and inventive tools that aims to aid individuals in comprehending and navigating the complex realm of modern job opportunities. The system integrate advance technologies with intuitive functions, to assist user throughout process, facility well informed choice and enhance their prospects of finding employment.

# **Table of Contents**



List of Figures .....	XII
List of Tables .....	XIII
Introduction .....	2
1.1    Opportunity & Stakeholders.....	2
1.2    Motivations & Challenges .....	2
1.2.1    Motivation .....	2
1.2.2    Challenges .....	3
1.2.3    Conclusion.....	4
1.3    Goals & Objectives .....	4
1.3.1    Introduction .....	4
1.3.2    Overall Goal .....	5
1.3.3    Conclusion.....	5
1.4    Scope & Limitations.....	6
1.5    Solution Overview .....	6
1.6    Report Outline.....	6

## Chapter 1: Introduction

# Chapter 1

## INTRODUCTION

In today's rapidly changing job market, the task of finding suitable employment has become increasingly challenging for job seekers. The revolutionary job explorer system is a cutting-edge solution design to revolutionize and streamline the job search process. In a constantly evolving industrial landscape with emerging opportunities, individuals necessitate a refined profound recourse to navigate the complex journey of discovering career options and obtaining employment.

### 1.1 OPPORTUNITY & STAKEHOLDERS

#### 1.1.1 Stakeholders

- 1) Admin
- 2) Students //optional
- 3) Job seeker
- 4) Employers

#### 1.1.2 Opportunities

##### 1) Admin:

Administering user accounts, roles, and access, ensuring job listing adherence and system maintenance validating employer registrations and managing concerns and tracking system activity to produce performance and engagement analytics.

##### 2) Student:

Student can learn about many career option in the information (IT) business with the Job explorer system. Students can such as a system in the following ways. Explore Career option, Find-student friendly role, identify required skill.

##### 3) Job seeker :

Job seeker obtain a major edge in their search by actively using a job explorer system. They can more successfully and smoothly seeks for a job if they can target, their search pinpoint areas that need work, and perhaps even interact with professional field.

#### 4) Employers :

Job explore platforms, employers may identify talent pools, create retention strategies, access skill gaps, plan for succession, and enhance their brand. By utilizing these traits, employers can be improve personnel management, raise employ engagement, and untimely achieve their business goals.

## 1.2 MOTIVATIONS & CHALLENGES

### 1.2.1 Motivations:

**Problem solving:** system administrator are sometimes tasked with troubleshooting and addressing complex technology problems. For those who enjoys problem solving and critical thinking, this job can be highly rewarding.

**High demand for skill:** Expert system administrator are in highly demand as firms increasingly rely on technology. Demand might lead to a verity of job opportunities and Attractive compensation.

**Career advancement:** With greater experience and qualification, system administrations can advance in to more senior role such as a network administrator, IT managers, or specialist in specific technologies.

### 1.2.2 Challenges:

**High responsibility:** system administrator are mostly accountable for the dependency and security of an enterprises IT infrastructure, any problem are outages cloud have detrimental effects, necessitating a high standard of responsibility.

**Security concern:** system administrators must continue to be on the lookout for security precaution due to the rise in cyber-attacks. Maintaining system security requires constant work due to constantly changing security threat.

**Communication challenges:** Non-technical stakeholders must be informed about technical information system administrations. It can be difficult to communicate effectively, practically when attempting to explain complicated problems or solutions.

## 1.3 GOALS & OBJECTIVES

### 1) Security expertise:

**Goals:** Gaining knowledge in cyber securities will improve the IT infrastructures securities

posture.

**Objectives:**

- Acquire credential such as a certified information systems security professional (CISSP).
- Install and maintain security measures, including intrusion detection systems.

**Career advancement:**

**Goal:** Assume increasingly demanding jobs and responsibilities to progress and your profession.

**Objective:**

- To obtain a variety of experiences, go for promotion or lateral movements.
- Think of specialist position like IT Manager. Cloud administrator, or network administrator.
- Review and revise your career goals on a regular basis in light of your changing interests and market developments

**Documentation and best practices:**

**Goals:** implement efficient documentation procedures to enhance system support and administrator.

**Objectives:**

- Provide thorough documentation for system setups and operation, keep it up to date.
- Recommended to procedure for managing documentation and version control.
- Conduct routine reviews and updates of documentation.

**1.4 SCOPE & LIMITATIONS**

Scope:

A job explorer system offers in-depth detail on a wide range of professions in different industries, including job description, salary and necessary qualifications. These system also provide interactive exploration tools to assist user in evaluating their abilities and interests, matching them with appropriate vocations, and connecting them with pertinent training and educational resources.

Limitations:

The system data could not be entirely accurate and timely, necessitating more study on particular professions. It might provide scant information about workplace customs, company policies, and employment opportunities in the area. The system board approach could ignore developing or non-traditional fields in favors of standard career pathways, falling to make into consideration individual preferences, the need for a work-life balance.

## 1.5 SOLUTION OVERVIEW

A job explorer system is a web based tools that offers career development features to staff members and organizations, while simultaneously streamlining the job search process for Employers and job seekers. It serves as an important point for managing professional development, finding pertinent opportunities, and investigating career possibilities.

The key services provided by the system include:

**Job search:** Users of the systems can look for job openings according to a number of parameters, including region, industry, job title, and company size.

**Career guidance:** Users have access to resource including webinars, articles that provide tips for interview, career guidance, and insights into various industries and job opportunities.

**Job application Tracking:** Users can keep the organized during the job search process by using it to manage their job applications, including submission dates, follow up actions, and interview schedule.

**Customized job Alerts:** user can receive information about new job postings that meet their criteria by customizing their job alerts depending their preferences.

**Interview preparation:** It offer tool and advice to assists users and in getting ready for job interview, such as a sample question, interviewing strategies, and realistic interview Scenarios.

The system will cater to four types of users:

**Admin:**

The admin will have overall rights and privileges. Their tasks include:

- Handle users account creation, editing, and deletion.
- Track system efficiency and resolve problems.
- Manage the filters and job categories.
- If necessary, edit or remove already existing job advertisement.
- Career information (description, incomes, and skills) can be added, edit and deleted.
- Examine job listing and search trend among users.
- Allow job searchers to get alerts when new positions that fit their interest are posted.
- Keep job searchers in a professional and educational setting.

**Student:**

Students will have the following capabilities:

- Registration and login.
- Feedback and reviewers.
- Job search functionality
- Job application tracking.
- Company profiles and review.
- Interview preparation.
- Skill development resource.
- Career assessment tool.
- Personalized recommendation.
- Salary information.

**Job seeker:**

Job seekers will have the following features:

- User profile creation.
- Job search functionality.
- Company research tool.
- Alerts Notification.

- Interview preparation resources.

**Employers:**

Employers will have the following features:

- Registration and login.
- Job posting.
- Company profile creation.
- Uploading progress reports for employs.
- Viewing their employs location.
- Managing offers.
- Confirming payment transactions.
- Uploading job for workers.
- Integration with HR system.

**1.6** REPORT OUTLINE**1.6.1** Chapter 1: Introduction

In this chapter we look at the identified opportunities, stakeholders, motivations, challenges, goals, and objectives. It also provides the solution overview of what is to be implemented.