

Job Explorer System



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Final Approval

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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.

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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.

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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
1.6.1 Chapter 1: Introduction	6
1.6.2 Chapter 2: Literature / Market Survey.....	6
1.6.3 Chapter 3: Requirement Engineering	7
1.6.4 Chapter 4: System Design	7
1.6.5 Chapter 5: Implementation	7
1.6.6 Chapter 6: Testing & Evaluation.....	7
1.6.7 Chapter 7: Conclusion & Outlook.....	7
Literature / Market Survey	9
2.1 Introduction	9
2.2 Literature Review / Technologies Overview.....	9
2.2.1 Historical Context.....	9
2.2.2 Key Concepts and Theories	9
2.2.3 Related Work	9
2.2.4 Gap Identification.....	10
2.3 Brainstorming.....	10
2.4 Existing Systems	11

Summary	2.4.1	Survey Table	11
	12		

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 carrier 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

Goals: The core function of our system is to revolutionizing the way of connecting qualified job seekers with employers looking for open positions.

Objectives:

- Offer a user-friendly and automatic platform for both job seekers and employers.
- Install and maintain security measures.

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 perpetration.
- 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.

1.6.2 Chapter 2: Literature / Market Survey

In this chapter we focus on how the existing systems work, what functionality they provide and don't provide. Identification of the gap and what tools and methodologies we will be using in order to address these gaps.

Chapter 3: Requirement Engineering

This chapter will provide the functional and non-functional requirements, The elicitation techniques used to gather these requirements, and the defects detected through test case designs.

1.6.3 Chapter 4: System Design

This chapter will give an overview of the system architecture, the use cases and the detailed use cases, database design, activity and component diagrams, and Defect Detection through test case design.

Chapter 5: Implementation

This chapter has the WBS, Team responsibility and roles matrix, flow control diagrams, tools and technologies used, the coding standards implemented, and deployment of the environment along with defect detection (white box).

1.6.4 Chapter 6: Testing & Evaluation

In this chapter we will test all the functionalities to make sure that they give the expected outcomes against the carefully selected input. And also testing of the non-functional requirements.

1.6.5 Chapter 7: Conclusion & Outlook

This will give an overview of the whole project regarding the achievements and improvements made to the current techniques being implemented and the critical review + future recommendations/outlooks for the students who would later work on the same or similar nature of projects.

Chapter 2: Literature / Market Survey

Chapter 2

LITERATURE / MARKET SURVEY

2.1 INTRODUCTION

For a literature market study or survey for a job explorer system, research is conducted to find out about the most popular solutions, trends, user send, and preferences in the field of path exploration and job search platforms. A job explorer system may be developed or improved with the use of the survey result.

2.2 LITERATURE REVIEW / TECHNOLOGIES OVERVIEW

2.2.1 Historical Context

The concept of a “job explorer system” has experienced significant modification due to changes in labor markets, technological improvements, and how people look for and apply for employment. By identifying important technologies and trends that have influenced the development of job exploration system, this literature review seeks to give a broad overview of the historical backdrop of these system.

2.2.2 Key Concepts and Theories

The key ideas and theories from the domains of information science, human-computer interaction, artificial intelligence, and labor economic have impacted the creation and development of job explorer system. The most significant ideas and theories that have influenced the layout, operation and efficiency of job exploration system will be discussed in this section.

2.2.3 Related Work

The development of job exploration system has been impacted by changes in the labor market, technological breakthroughs, and the evolving habits of job seekers. Modern techniques, methods, and practices in the field of job exploration system are well understood through a survey of the literature and an overview of the technologies. The purpose of this section is to locate and evaluate relevant research in this area.

2.2.4 Gap Identification

Following the completion of the technology overview and literature assessment on job exploration system, a number of gaps and areas require additional study and development

have been discovered.

Further research and development are required to address the changing needs and expectations of job seekers in the digital age. The gap in personalization and customization, skill-based matching, semantic job search, mobile job search apps in job exploration, and the integration of social media and online professional networks have been identified. It is anticipated the development AI machine learning and social media integration will spur innovation in job exploration system, offering job seekers more effective and customize option.

2.3 BRAINSTORMING

The digitalization of the labor market and technological improvements have brought about a substantial revolution in the way people explore work option. The field of job exploration system has changed as a result of the integration of natural language processing, systematic technologies. The purpose of this brainstorming part is to come up with creative solution and possible line of inquiry to fill in the holes in the technology overview and literature study of job exploration system.

2.4 EXISTING SYSTEM:

An established platform or collection of tool intended to make it easier for job searchers to explorer career prospects, connect with potential employers, and navigate the job market it referred to as an existing job exploration system. A verity of features and functionalities are usually available in these system to help users with different elements of their career developments and job search process. Job search functionality company profiles, job application administration tool are some of the essential element of an established job explorer system. These platform promise to make the job search process more efficient and provide tools to assists users developed their careers and improve their skill sets.

Table 2.1: Market Survey Table

Features	Platforms			
	Indeed	Rozee.pk	Glass door	Bayrozgar.pk
Document Verification	No	No	No	No
Interview Conduct	External	Internal	External	External
Visa Applications	No	No	No	No
Travel Arrangements	No	No	No	No
Language Proficiency Tests	No	No	No	No
Ensuring Compliance	No	No	No	No
Chabot for Websites	Yes	No	No	No
Application Tracking System	Yes	Yes	Yes	Yes
Payment Processing	No	No	No	No
User Support	Email, Phone, FAQ	Email, Phone, FAQ	Email, Phone, FAQ	Email, Phone, FAQ
User Registration	Email, Facebook, Google	Email	Email, Google, Facebook	Email, Facebook
Job Listing	Extensive	Extensive	Extensive	Extensive
Job Filtration	Advanced Filters	Advanced Filters	Advanced Filters	Advanced Filters
Matching Algorithms	Yes	Yes	Yes	Yes
Document Submission	Resume, Cover Letter	Resume, CV, Cover Letter	Resume, Cover Letter	Resume, Cover Letter

2.5 Summary:

The main purpose of a built-from technologies overview and literature analysis is to provide guidance for the creation, improvement, and development of job explorer system. Through integrating knowledge from previous research new technologies, platforms have the ability to.

- The objective is develop a user-friendly job explorer system that, by attending to the need and preferences of business and job seekers, fulfill both group needs.
- Keep up with technological advancements and market trends to add cutting-edge features that will increase the platforms effectiveness and competitiveness.