



Tribhuvan University
Institute of Science and Technology

A Final Year Project Report On
Job Portal

Submitted to:

Department of Computer Science and Information Technology

Ambition College

Baneshwor, Kathmandu, Nepal

In partial fulfilment of the requirements for the Bachelor Degree in

Computer Science and Information Technology

Submitted by:

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Under the Supervision of

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Ambition College

Tribhuvan University

Letter of Approval

This is to certify that this project prepared by Kiran Bamma, Narendra Pyakurel and Madan Shrestha entitled “JOB PORTAL” in partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Information Technology has been well studied. In our opinion it is satisfactory in the scope and quality as a project for the required degree.

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Supervisor's Recommendation

I hereby recommend that this project prepared under my supervision by Kiran Bamma, Narendra Pyakurel and Madan Shrestha entitled “JOB PORTAL” in partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Information Technology be processed for the evaluation.

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Abstract

People are unable to get access to job opportunities due to inefficient distribution of information on job offers but now the Internet has made a huge impact on knowledge management and information dissemination all over the world. The Internet has changed the way of looking for job vacancies and searching for right and qualified candidates, through the development of job portals. Job portal system has made job searching processes easier. This project deals with the design and development of a Job Portal System. The purpose of this project is to develop a web-based system for users that will eliminate or reduce the manual work in job searching process and also reduce cost and time spent when advertising job vacancies. It allows job seekers to register online, search and apply for employment and also allows recruiters to register online, post job vacancies and look for suitable candidates.

Keywords: *Job Portal, Job Seekers, Employee, User Management, etc.*

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Chapter 1

INTRODUCTION

1.1 Overview

Job portal is an online job board that helps applicants find jobs and aids employers in their quest to locate ideal candidates. Everyone needs a job which pays handsomely and contents their heart. But despite being capable and well-qualified many people don't find the right job. That's where our Job portal comes in; Job portal is a platform that provides common ground for both recruiters and job seekers, benefitting both in the process.

Job Search Portal is a web application, which serves jobseekers to find available job vacancies and Employers to identify eligible job seekers with the prospect of selecting the most qualified candidates. The only way to select best-qualified candidate is to have a pool of eligible applicants, which is possible by drawing the interest of individuals in the market. Job search portals best serve this purpose.

The Internet has changed the way of looking for job vacancies and searching for right and qualified candidates, through the development of job portals. Job portal system has made job searching processes easier. A job portal system provides an efficient way for searching the Internet for job vacancies available and looking for suitable candidates. It has reduced the manual efforts in job and applicant searching process. This system is to eliminate and some cases reduce the hardships faced by the existing system and also the problems prevailing in the practicing manual system.

1.2 Problem Definition

Unemployment is a major problem in our country. Many people flying off abroad to get proper employment opportunity. Even the people who are employed may not satisfied with their work but, reluctantly continue due to lack of better opportunities. It may be the case that there are not as much jobs in our country as compared to developed countries. But there are ample of opportunities for willing and deserving candidates. Problem not only lies in the lack of opportunities and unskilled populous. But also, in the presentation of the opportunities. Even though availability of jobs is ample, the majority of target audience are unaware about job opportunities. Hence, to remove such challenges and make a reliable channel dedicated for jobs.

1.3 Objectives

The objectives of this project are listed below:

- To build a job portal that allows job seekers to search jobs and upload their resume.
- To minimize the time consumed in job searching process and provide 24/7 accessibility.
- To build a system that will act as a link connecting job seekers and recruiters.

1.4 Scope and Limitation

The scopes of this project are:

- Can be developed into a large-scale project and used commercially.
- Can be used to solve the real-world problem.

The limitations of this project are:

- Not available as mobile applications.
- Cannot provide interview platform for employee and job seekers.

1.5 Report Organization

Report organization is an important part of a report formation. It gives the overall pattern of the report, which contains summary information of the overall document. This document is categorized into several chapters and further is divided into sub chapters including all details of project.

- First chapter is about the introduction of the whole report. It includes short introduction of the system, scope and limitations, background study and objectives of the system.
- Second chapter includes the research methodologies in the project. It also includes feasibility study, functional and non-functional requirements. Data and process modeling are also included in this chapter. 4
- Third chapter is about system design. It contains database design, interface design etc.
- The fourth chapter is about the implementation and testing procedures. It contains the detail about the tools that are required to design the system. In the testing section, different testing processes are included.
- The last chapter includes conclusion of the whole project. It also provides information about what further can be achieved from this project.

Chapter 2

Requirement Analysis and Feasibility Study

2.1 Literature Review

The existing system for job recruitment includes traditional methods like Employment agencies, advertising through newspapers, televisions and radios, college fairs etc., which are too slow and stressful. With the advancement of internet, jobseekers rely on the online job portals, which makes the job search efficient. Again, most of these are limited to the web/desktop applications, which requires jobseekers to have a laptop or desktop connected to internet and is not handy.

Recruitment agencies is one of the traditional methods used for recruitment and still used in Ghana. Employment Recruitment agency is an organization that matches job seekers to recruiters or employers. Job seekers registers with the agency providing all the personal and necessary information needing to apply for a job and the agency searches for job vacancies. Clients are notified when they have been accepted for a job. Some of the examples of recruitment agencies in Ghana are Job House Recruitment Agency and Mon-Tran Ghana Ltd. [1]

An existing system was submitted by Asamoah Evans to Sunyani Polytechnic in the year 2016. The system was developed to improve on the existing system being used at Unisky Group of Companies. The system was developed with the aim of converting the manual or traditional ways of recruiting employees at Unisky Group of Companies into a computerized or electronic way. (Asamoah, 2016) [2]

Reporting on a survey of recruitment activities, Parry and Tyson (2008) investigated the usage and perceived success of both corporate and commercial websites by employers in the UK over a six-year period. In addition, 20 interviews with users and providers of online recruitment were conducted in order to provide a deeper exploration of the factors that may affect the success of these methods. The results indicated that the most common reasons why organisations used corporate or commercial websites were effectiveness, ease of use for candidates, to obtain a larger candidate pool, ease of use for the organisation, speed to hire and company policy. (Bangfu, 2014) [3]

2.2 Requirement Analysis

While developing a system and before implementing it, it is necessary to analyze the whole system requirements. It is categorized into mainly two parts, namely: functional and non-functional requirements.

2.2.1 Functional Requirements

A functional requirement describes what a software system should do when it is given input. Some of the functional requirements are given below:

- User needs name, email and password to register and login.
- Companies can add job.
- Job Seekers can apply job.
- Job Seekers can build their own resume.
- Admin can manage all job-related tasks and manage user.

2.2.2 Non-functional Requirements

A non-functional requirement describes how the system performs a certain function. Non-functional requirements generally specify the system's quality attributes or characteristics.

Types of non-functional requirements are:

- Easy to use.
- Information in fields like phone numbers, email, names will be validated.
- User friendliness.

2.2.3 Use Case Diagram

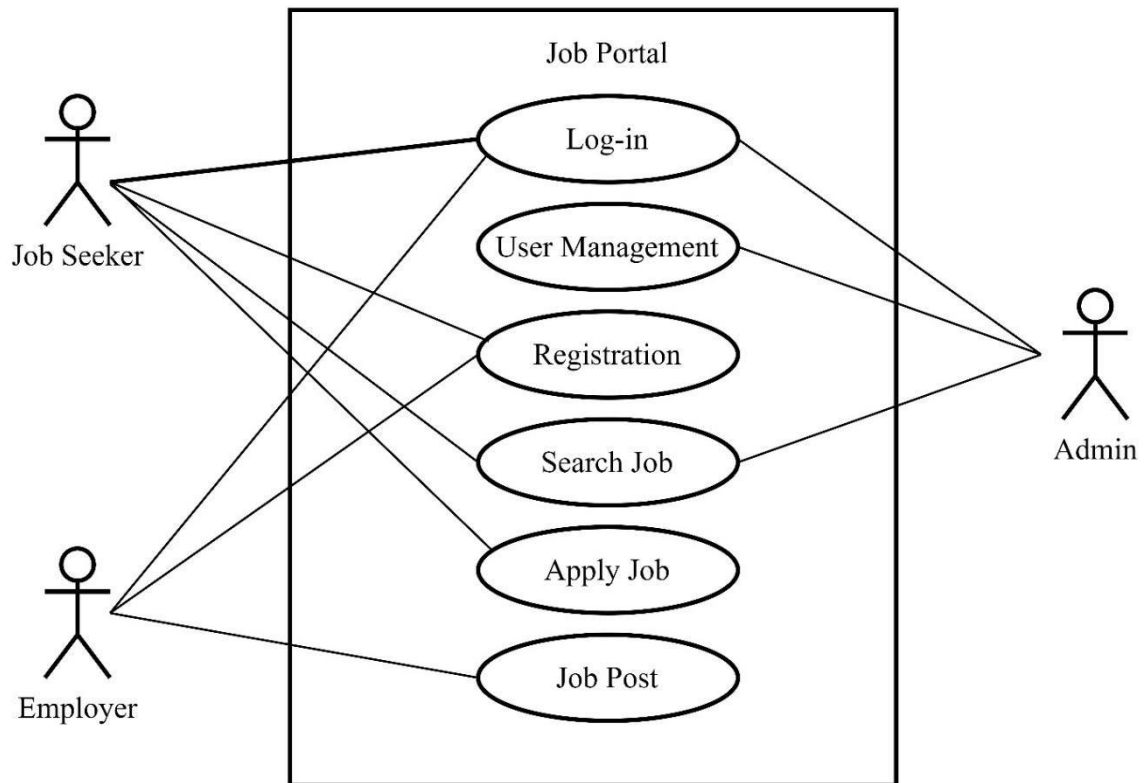


Figure 1: Use Case Diagram of Proposed System