Tribhuvan University

Faculty of Humanities and Social Sciences

Project Proposal on

Job Search Portal

Submitted to:

Department of Computer Application

Birendra Multiple Campus

Bharatpur, Chitwan

In partial fulfillment of the requirements for the Bachelors in Computer   Application

Submitted by:

Name: Sudip Raj Joshi

Semester: Fourth

Registration Number: 7-2-241-495-2018

Date: 2080-01-03

Name: Nabin Kharel

Semester: Fourth

Registration Number:6-2-19-15-2020

Date: 2080-01-03

1. Introduction

A job search portal is a web-based platform that connects job seekers and companies. It provides job seekers with an efficient way to search and apply for job opportunities. while providing employers with a pool of qualified candidates for their open positions. Companies can post job opening, review resumes and choose qualified candidates. A typical job search portal features job listings from a variety of industries and fields, as well as platform for uploading resumes. The portal may also offer resources such as career advice, interview tips, and salary information to help job seekers in their search.

Overall, a job search portal provides a convenient and efficient way for job seekers to find employment opportunities and for employers to find qualified candidates.

2. Problem Statement

The job search process can be difficult for both job seekers and employers. Job seekers often struggle to find job opportunities that match their skills and interests, while employers may have difficulty finding qualified candidates for their open positions. Additionally, the job search process can be time-consuming and costly, with job seekers needing to submit multiple applications and employers needing to sort through a large pool of candidates.

- Lack of Centralized Platform where job seekers and employers can connect and interact.
- Offline job search can be time-consuming. You may need to travel to different locations to submit your resume.
- Lack of information about jobs.
- Reach is limited to the geographic area, etc.

3. Objectives

After researching the market, the resources available and the systems in place. We presented a web-based platform for getting job with the following goals:

- To provide a centralized platform for both job seekers and companies, where they can share information.

- To simplify the process of getting a job and employee in less time.
- To provide information of job listing to job seekers and employee information to company.
- To offer wide range of job opportunities from various geographical locations.

4. Methodology

4.1 Requirement Identification

It entailed user involvement and statements of facts and assumptions that define the expectations of the system in terms of mission objectives, environment, constraints and measures of effectiveness and suitability.

Basically, the users want:

- A system that improves on the efficiency of information storage and retrieval.
- A system that is easy to learn and use.
- A system that is flexible, safe and convenient.

4.1.1 Study of Existing System:

While conducting some research for our project, we came across several other websites such web-based job search portal websites www.merojob.com and www.jobsnepal.com. These job portals typically consist of the following features:

- Limited job postings: While many job search portals have many job postings, they may not have postings for all industries or job types. This can limit job seekers' options and make it difficult to find certain types of jobs.
- Outdated information: Some job postings on these portals may be outdated or have already been filled. This can be frustrating for job seekers who spend time and effort applying for jobs that are no longer available.
- Limited geographical scope: Many job search portals are primarily focused on certain geographical locations or regions. This can make it difficult for job seekers looking for work in other areas or countries.

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4.1.2 Requirements Collection (Analysis)

Functional Requirements:

Functional requirements are those requirements that are used to illustrate the internal working nature of the system, the description of the system, and explanation of each subsystem. The functional requirements identified are:

- **User Registration:** At first, user must register their details to get login details.
- **User Login:** Once user get login details (username, password), he/she can use his/her account for further process.
- **Job posting and management:** The ability for employers to post job openings, manage job postings, and review applications**.**
- **Job search and filtering:** The ability for job seekers to search for job openings based on specific criteria, such as location, job title, salary, and experience level.
- **Resume creation and management:** The ability for job seekers to upload their resumes, edit them as necessary, and manage them within the system.
- **Application submission and tracking:** The ability for job seekers to submit job applications and track the status of their applications.
- **User accounts and profiles:** The ability for job seekers and employers to create and manage their profiles, which contain personal and professional information.

Non-functional requirements:

Non-functional requirements are those that specify the qualities or characteristics of a system, rather than its functional behavior. Here are some examples of non-functional requirements for a job search portal:

- **Accuracy:** The recommendation system should provide accurate and relevant recommendations to users, based on their preferences and historical data.
- **Performance:** The system should be able to process and analyze large amounts of data quickly, to provide real-time recommendations to users.
- **Personalization:** The system should be able to personalize recommendations based on individual user preferences and behavior.
- **Security:** The system should have appropriate security measures in place to protect sensitive user data and prevent unauthorized access.
- **User experience:** The system should be easy to use and navigate, with a simple and intuitive interface that provides relevant recommendations to users.

- **Compliance:** The system should comply with relevant laws, regulations, and standards related to data privacy and user protection.

4.1 Feasibility Study

4.2.1. Technical
- Determine if the proposed system can be developed with the available technology and resources.
- Assess if the proposed system's backend and frontend structure is compatible.
- Assess the compatibility of the proposed system with various devices and operating systems.

4.2.2. Operational
- Evaluate the system's ability to handle customer feedback and adapt recommendations accordingly.
- Consider the potential for the system to integrate with existing operational processes to improve efficiency and accuracy.
- Evaluate the impact of the system on existing job search portal industry and operations.

4.2.3. Economic
- Analyze the costs associated with development, implementation, and maintenance of the system.
- Evaluate the potential return on investment (ROI) for the system.
- Determine the pricing structure for the system and whether it is competitive with similar offerings in the market.

4.3. High Level Design of System
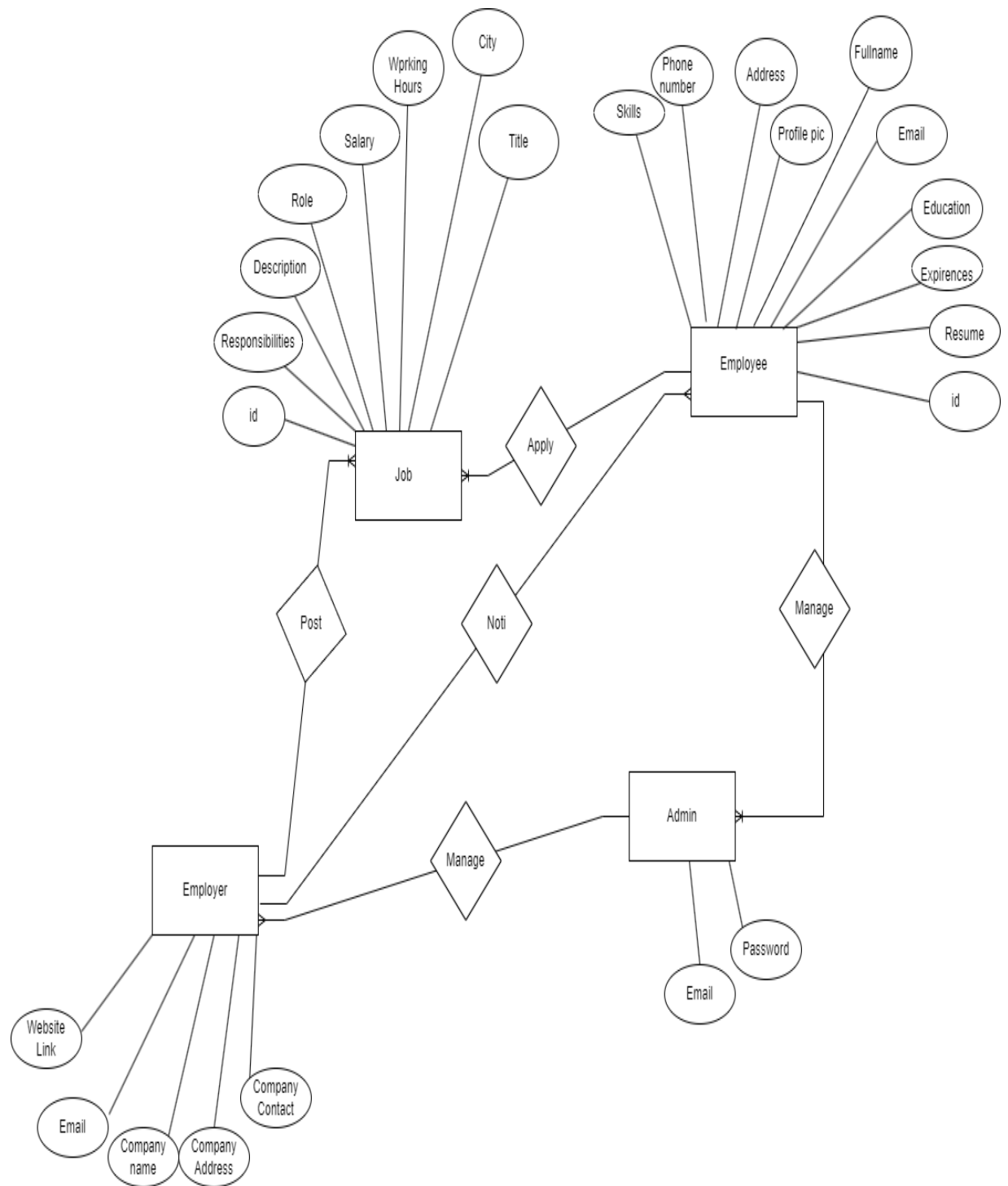
Fig: ER Diagram of Job search portal

User Module:

- Registration
- Login
- View Job Listings.
- Search and filter jobs
- Apply for a job.
- Upload Resume

Admin Module:

- Login
- Post Job Listings.
- Manage Resumes.
- Manage applications.

5. Gantt Chart

System Development Phases	Week 1	Week 3	week 4	Week 6	week 7	week 8
Study	■					
Analysis		■				
Design		■				
Development			■	■		
Testing			■	■	■	
Implementation						■
Documentation	■	■	■	■	■	■

Fig: Gantt Chart of Job Search Portal

6. Expected Outcome

The expected outcome of a job search portal is to provide a platform for job seekers and

employers to connect and facilitate the process of finding and filling job vacancies. The key outcomes that a job search portal aims to achieve include:

- Efficient job search: Job seekers should be able to easily search for jobs based on their skills, experience, and other criteria. The portal should provide a user-friendly interface that enables job seekers to quickly find relevant job listings.
- Job posting and recruitment: Employers should be able to post job listings and manage the recruitment process through the portal. The portal should provide tools for employers to screen, interview, and select candidates.

7. References

[1] Shine learning "How job portal can be useful for Recruiters and job seekers" Available: https://learning.shine.com/talenteconomy/trends/how-job-portal-can-be-useful-for-recruiters-and-job-seekers/

[2] Research Clue "Design and implementation of an online job portal" Available: https://www.iproject.com.ng/computer-science/design-and-implementation-of-an-online-job-portal/index.html

[3] Vertabelo" Designing a Database for an Online Job Portal" Available: https://vertabelo.com/blog/designing-a-database-for-an-online-job-portal/