PROJECT REPORT

On

ONLINE JOB PORTAL

Submitted as partial fulfillment for the award of

MASTER OF COMPUTER APPLICATION

SESSION 2021-22

By

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STUDENT DECLARATION

I hereby declare that the work being presented in this report entitled "ONLINE JOB PORTAL" is an authentic record of my own work carried out under the supervision of "Dr. Arun Tripathi".

The matter embodied in this report has not been submitted by me for the award of any other degree.

Date: 10/01/2022 Signature of Student

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This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Signature of HOD Signature of Internal

Prof (Dr.) Ajay Shrivastava Dr. Arun Tripathi

HOD-MCA (Associate Professor)

ACKNOWLEDGEMENT

Any project is not a work of an individual. It combines efforts, ideas, suggestions, reviews and hard work. We express our sincere gratitude to all those who initiated and helped us in the successful completion of our project. One of the most pleasing aspect in collecting the necessary information and compiling it is the opportunity to thanks those who have actively contributed to it.

I would like to express thanks to Dr. Arun Tripathi for his guidance and cooperation render for following me to undergo training under his guidance I'm also thanks to all the other staff of college who had helped me in spite of their busy schedule.

My special thanks to Dr. Arun Tripathi (Associate Professor) for their active support, affectionate, guidance and constant encouragement.

I'm highly indebted to Prof (Dr.) Ajay Shrivastava (HOD-MCA) for his continuous effort in building a good infrastructure and develop a professional attitude within ourselves during the academic period of MCA.

Signature of Student

Anshika Sharma (2000290140021)

Chandresh Gangwar (2000290140037)

MCA-IIIrd Semester

CERTIFICATE

This Certified that Anshika Sharma (2000290140021) and Chandresh Gangwar (2000290140037) have carried out the project work having "Online job portal" for Master of Computer Applications from Dr. A.P.J. Abdul Kalam Technical University (AKTU) Technical University, Lucknow under my supervision. The project report embodies original work, and studies are carried out by the student himself/herself and the contents of the project report do not form the basis for the award of any other degree to the candidate or to anybody else from this or any other University/Institution.

Date: 10/01/2022

Anshika Sharma (2000290140021)

Chandresh Gangwar (2000290140037)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Date:10/01/2022

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Signature of Internal Examiner

Signature of Internal Examiner

Dr. Ajay Shrivastava Head, Department of Computer Applications KIET Group of Institutions, Ghaziabad

ABSTRACT

Online job portal is a web application built in JAVASCRIPT, PHP. It provides the candidates ability to register to this web application and search for jobs, manage their accounts.

On the other hand companies that are willing to publish the jobs for their company to candidates can register to the job portal and get their own account created and can post jobs to portal's database Registered companies can add or remove jobs and these jobs can be seen by various candidates and they can contact the company person for the job. Main aim of this web application is to make a good web application that can make this job search option easy and accessible to everyone who are interested.

This project is aimed at developing a web-based Online job portal for the HR Group for a company.

Some features of this system will be creating vacancies, storing Applicant's data, Interview process initiation, Scheduling Interviews, Storing Interview results for the applicant and finally Hiring of the applicant. Reports may be required to be generated for the use of HR group.

This system automates the manual recruitment process. We believe that once the organization chooses to use this system, it will eventually recognize the value and necessity of this system and understand the problems involved in the manual process.

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1. INTRODUCTION

Online JOB Portal is an embedded JavaScript, php web application. It offers candidates the option to register with this app to search for jobs and manage their accounts.

On the other hand, companies that want to publish job offers to candidates can register in the job portal, create their own account and publish job offers in the portal's database. Registered Company Add Jobs Or you can remove these vacancies and they are displayed to different candidates, and you can contact your company representative to get jobs.

The main goal of this web application is to create a great web application that can make this job search option accessible to anyone interested.

1. 1 Purpose

This project aims to develop an online recruitment portal for corporate HR groups. Some of the features of this system are creating vacancies, saving candidate data, starting the interview process, scheduling interviews, saving candidate interview results, and finally recruiting candidates.

You may need a report to use the human resources team. This system automates the manual hiring process. We believe that if an organization chooses to use this system, it will eventually realize the value and need for this system and understand the issues associated with the manual process. Its data and contents are updated every time a user accesses them.

In web application development, PHP is used as the HTML/CSS server-side language and Javascript is used for the front-end design.

2. System Analysis

This chapter describes and analyzes the online work of the portal development process, including software requirements. Specification (SRS) and comparison of existing and proposed systems.

Functional and non-functional requirements are included in the SRS section, which provides a complete description and overview of the system requirements before development takes place. In addition, the existing system and the recommendation system provide insights into how the recommender system is more effective than the existing system.

Manage product operations electronically. It reduces the risk of paperwork like lost files, corrupted files and slowness. Helps administrators manage and record transactions more efficiently.

2.1 System Objectives

- Improved Controllability and Performance This system was developed to address current issues and offline job search issues.
- Cost savings
- Time savings

3 Requirements Analysis

3.1 Method used for Requirement analysis

In the software development life cycle (SDLC), Requirement analysis is the first step of major importance. The entire concentration is on gathering the functional and the nonfunctional requirements for the product to be developed and estimating the feasibility of those attributes. Through requirement gathering we ensure that we are setting project goals and objectives much earlier. Complete understanding of the requirements leads to the successful development of the software. If we don't do this step, then however hard we work we will never arrive at the desired final product. This is most crucial as without knowing the exact requirements the final output can never be achieved as desired. For this project, I did a major research on the existing system and discussed the functionality that I wanted to develop with my major professor and finally concluded on a concrete set of requirements that I wanted to see as an outcome of my project.

Functional Requirements

The proposed system has the following functionalities:

- ➤ Job Seeker Sign In
- ➤ Job Seeker Sign Up
- ➤ Job Seeker can view all available jobs
- ➤ Job seeker can search based on advanced search
- ➤ Advanced search can be done on location, technology, etc.
- ➤ Job seeker can apply to more than one jobs.
- ➤ Job seeker can view all applied jobs.
- > Job seeker can update their profile information.
- ➤ Job seeker can retrieve their password if forgot.
- ➤ Companies can Register to the portal.
- ➤ Admin approves the company registration,
- ➤ Companies can post jobs.
- ➤ Companies can see applications.
- ➤ Companies can see all approved jobs.
- ➤ Admin can view all jobs.
- ➤ Admin approves the jobs posted by the company.

3.3 Non Functional Requirements

• Reliability requirements - The system must perform accurately towards the administrator request. For example, when the administrator saves the edited details of the user, after he reviews the details later, they must be changed according to the latest details that was updated. Moreover, the client is not allowed to view the details that the administrator has. Besides that, the login form will have validity check to ensure that only the authorized users gain access to the system.

Page - 10•

Usability requirements - This system should be user-friendly and easy to use so that users can perform their tasks nicely.

•

Implementation requirements - In implementing the system, it uses python as the main tool. This forms the front-end. At the back-end, the MYSQL will be synchronized and be used to maintain the information in the database. This is formed by the databases and other data stores.

•

Security requirements - User credentials should be encrypted so as to ensure confidentiality, integrity and availability and the project ideas should be protected so as to avoid being stolen by other parties

System Specification

3. Software requirements

Language: Javascript, php

Front-end design: Html, CSS, JavaScript, Php, MySQL

• Database: MYSQL,

• Server: Xamp

4. <u>Hardware requirements</u>

• System operation: Windows 7 or later

Ram: 2 GB

• Hardware capacity: 2 GB

• Processor: Intel Core i3

Software tools USED

VS CODE

5. Front End Technologies

JAVASCRIPT

JavaScript (JS) is a dynamic computer programming language. Most often used as part of a web browser, its implementation allows client-side scripts to interact with the user, control the browser, communicate asynchronously, and modify document content. It is also used for server-side programming, game development, and building mobile and desktop applications .JavaScript is a prototype-based programming language with dynamic writing and first-class functionality. Its syntax is influenced by C. JavaScript, which copies many names and naming conventions from Java, but the two languages are unrelated and have very different semantics. Supports language, object-oriented, imperative, and functional programming styles.

Page 3

PHP

PHP stands for "Hypertext Preprocessor". (If you understand what that means, it's a recursive acronym.) PHP is an embedded HTML web programming language.

This means that you can insert PHP code into the HTML code of your web page. When the PHP page is displayed, the PHP code is read or "parsed" by the server where the page is located. The output of PHP functions on the page is generally returned as browser-readable HTML. The PHP code is converted to HTML before the page loads, so the user cannot see the PHP codeon the page. PHP pages are secure enough to access databases and other secure information. Much of PHP's syntax is borrowed from other languages such as C, Java, and Perl. However, PHP also has some unique and specific features. The goal of this language is to allow web developers to quickly and easily create dynamically generated pages. PHP is also great for creating databasedriven websites.

HTML and CSS

HTML stands for "Hypertext Markup Language". HTML is the language used to create web pages. "Hypertext" refers to hyperlinks that can be included in an HTML page ."Markup language" refers to the way tags are used to define page layouts and page elements. CSS Cascade Style sheets, lovingly called CSS, is a simple design language that aims to simplify the process of creating great-looking web pages. CSS manages the appearance of web pages. You can use CSS to control text color, font style, paragraph spacing, column layout and placement, background or color to use, and layout.

6. Back End Technologies

Database

MySQL is used as a database server and its primary role is to protect data stores, support best practices, and enable on-demand searches by other software applications.

It can handle a variety of workloads, from small applications on a single machine to large Internet applications with many concurrent users. Recent versions also provide a copy of the database itself for availability and scalability. The project is displayed with information about the primary key.

6 BACKGROUND OF ONLINE JOB PORTAL

6.1 Online Job Portal

Viewing available jobs, or applying for the job at the agency can be done for which job seekers has to go to the agency and check the available jobs at the agency. Job seekers check the list of

jobs available and apply the job. Then the agency will show available jobs for the job seeker for his qualifications and then updates the jobs database [1].

6.2 Advantages of Job Portal

The biggest advantage of a Job portal is that there is no fee for the job seeker. Websites like Monster.com thrive on the money that the companies pay to register with them. The job seeker just has to select the company he likes and apply to them. Of course, if a person wants to avail of other services like the resume service then he will have to pay extra.

Portals are well organized and more often than not really help people get jobs. Most of them have a basic sign up procedure where the candidate can upload the resume and fill out all the important details about their educational backgrounds, skills and work experience. Everything is done in an orderly fashion and candidates can manages their own profiles and customize the site to meet their needs. One of the biggest advantages of a job portal is the fact that you can avoid certain companies or employers. If you do not wish for them to see your profile you can simple blacklist them?

However, there are so many portals and so many jobs between them that it becomes difficult to manually apply for these jobs from every job portal on the internet. A quicker way of doing this would be to procure a program from the net, which can search for jobs through all these many sites and show the results in one window. There is software out there, which makes it possible for job seekers to find hundreds of opportunities in and around their areas and reply to these postings with a cover letter and the resume with just a few clicks. Software of this nature usually keeps the user informed with email alerts and reduces the time spent on job-hunting [1].

6.3 Other features

- Search resumes online.
- Saved search results of resumes (set and save search criteria). For Human Resources, you can create and save many search criteria. For example for the Psychology Department create a search criteria using keywords like psychology, psychologist etc and save that search as "Psychology". And do the same for the Economics Department, Accounting etc.
- Resume Alerts (Set search criteria based on keywords you select and wait for resumes posted meeting that criteria). An email will be sent to you notifying you that a resume has been posted that meets your criteria.
- Jobs advertised to date by your school.
- Monitor applications received to each job vacancy and status.
- Monitor comments on job vacancies posted (job seekers can comment on the vacancy you posted and gauge the usefulness of the information you included in the vacancy posting).
- Tell a friend (job seekers can tell a friend about your vacancy and widen your net).
 - RSS Feeds can be installed for you to be updated [1].

LIST OF TABLE:

Table 1: LOGIN TABLE

Field Name	Data Type	Size	Constraints	Description
EMAIL	VARCHAR2	25	Primary Key	User e-mail
PASSWORD	VARCHAR2	10		User password

Table 2: REGISTRATION TABLE

Field Name	Data Type	Size	Constraints	Description
E-MAIL	VARCHAR2	25	Primary Key	E-mail of the user
FIRST NAME	VARCHAR2	50		First name of the user
LAST NAME	VARCHAR2	25		Last name of user
PASSWORD	VARCHAR2	15		User password

Page3

LOCATION	VARCHAR2	50	User location
SKILLS	VARCHAR2	50	User key skills
GENDER	VARCHAR2	2	Gender of user

Table 3: PROFILE TABLE

Field name	Data type	Size	Constraints	Description
E-MAIL	VARCHAR2	25	Primary key	User email

DOB	NUMBER	10	User	date of birth
QUALIFICATION	VARCHAR2	10	Quali	fication of user
YEAR	NUMBER	4	Passo	out year of college
COLLEGE	VARCHAR2	30	User	's college name
UNIVERSITY	VARCHAR2	20	User	university name

Table 4:-INTERVIEW CALLTABLE

Field name	Data type	Size	Constraints	Description
JOB ID	VARCHAR2	6	Primary key	Job id number
PROFILE	VARCHAR2	20		Profile of job

COMPANY EMAIL	VARCHAR2	30	Company email
USER EMAIL	VARCHAR2	30	Applicable user email

Table 5:- JOB POST TABLE

Field Name	Data Type	Size	Constraints	Description
ID	VARCHAR2	15	Primary Key	Job id.
PROFILE	VARCHAR2	20		Job profile
COMPANY	VARCHAR2	20		Name of company
PLACE	VARCHAR2	30		Job location
EXPERIENCE	NUMBER	3		Experience required
SALARY	NUMBER	10		Offered salary

Table 6:- INTERVIEW CALL TABLE

Field name	Data type	Size	Constraints	Description
JOB ID	VARCHAR2	6		Job id number
PROFILE	VARCHAR2	20		Profile of job
COMPANY EMAIL	VARCHAR2	30		Company email
USER EMAIL	VARCHAR2	30		Applicable user email

Table 7:- COMP. LOGIN TABLE

Field Name	Data Type	Size	Constraints	Description
EMAIL	VARCHAR2	25	Primary Key	User e-mail
PASSWORD	VARCHAR2	10		User password

Table 8:- COMPANY REGISTRATION TABLE

Field Name	Data Type	Size	Constraints	Description
EMAIL	VARCHAR2	35	Primary Key	Email of company

PASSWORD	VARCHAR2	20	Password
NAME	VARCHAR2	20	Name of company
STATE	VARCHAR2	20	State location of company
CITY	VARCHAR2	15	City
CONTACT PERSON	VARCHAR2	20	Contact person
P_PIN	NUMBER	10	Permanent pin
DATE	DATE	10	Date of jobposting
CONTACT NO.	NUMBER	10	Contact no.
INDUSTRY	VARCHAR2	20	Industry

Table 9:- COMPANY INFO TABLE

Field Name	Data Type	Size	Constraints	Description
EMAIL	VARCHAR2	25	Primary Key	Email of company
INFO	VARCHAR2	50		Profile of the company

Table 10: APPLIED JOBS TABLE

Field Name	Data Type	Size	Constraints	Description
EMAIL	VARCHAR2	25	Primary Key	Email of company
JOBID	VARCHAR2	10		Job-id

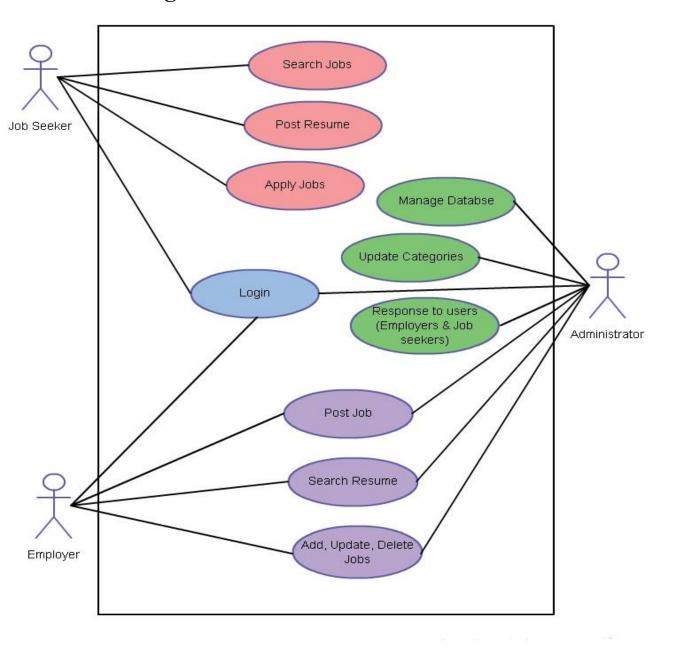
Table 11: ADMIN LOGIN TABLE

Field Name	Data Type	Size	Constraints	Description
NAME	VARCHAR2	25	Primary Key	Admin name
PASSWORD	VARCHAR2	20		Admin password

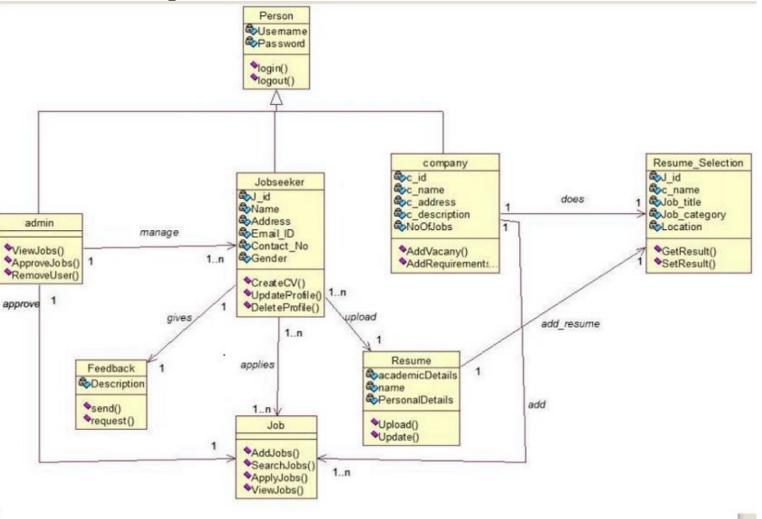
9 Software Requirements Specification

Glossary - The web application "Job Search Portal" provides an easy and convenient search application for the job seekers to find their desired jobs and for the recruiters to find the right candidate. Job seekers from any background can search for the current job openings. Job seekers can register with the application and update their details and skill set. They can search for available jobs and apply to their desired positions. Employer can register with the application and posts their current openings. They can view the Job applicants and can screen them according to the best fit.

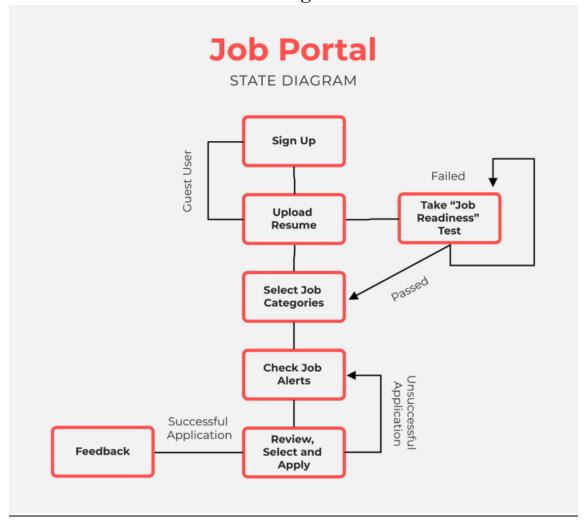
1 Use Case Diagram



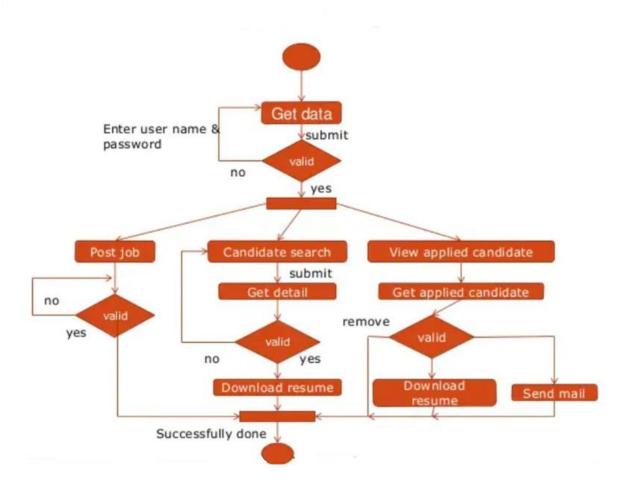
2 Class Diagram



3 State Diagram



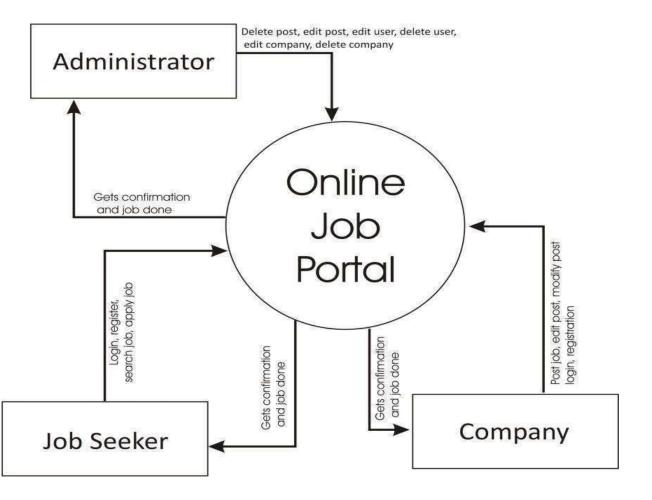
4 Activity Diagram

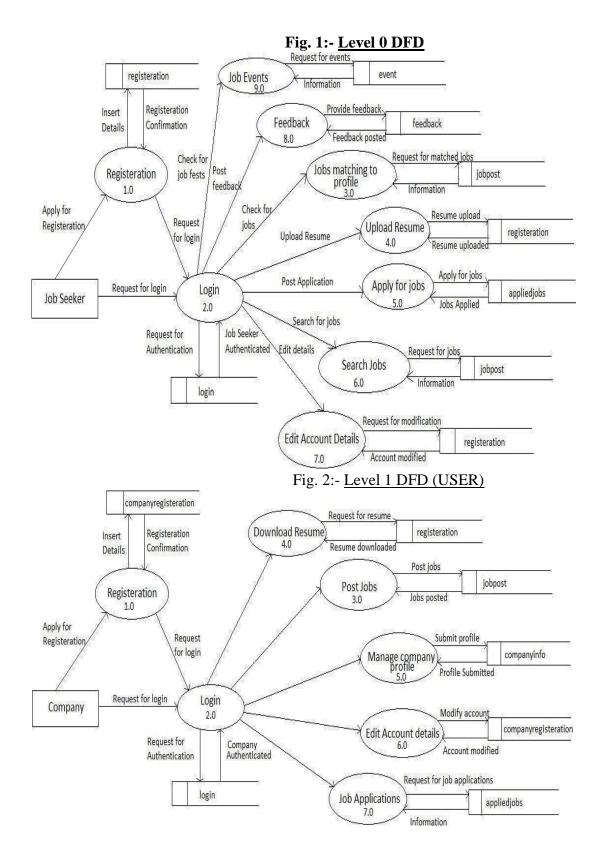


7. DATA FLOW DIAGRAM DATAFLOW DIAGRAM FOR USER LOGIN:

After accessing the home page of the site, if the user does not have a username and password, he can log in by entering the username and password. password provided. You need to register first. A valid user login page is displayed. This is the flow of data when the user logs in. There are four icons for drawing a DFD data flow diagram which shows the data flow from one entity external to the system and the data flow from one process in the system to another.

- 1. The rectangle represents an external entity of the entity, the source or the destination of the data.
- 2.yen represents the process, takes the input data, validates it and processes it, and issues it.
- 3. Arrows represent data flow. They can be electronic data or physical elements.
- 4.A white rectangle or disk symbol representing a data store that contains electronic stores, such as databases and XML files, and physical stores, such as mail item and wrapping paper.





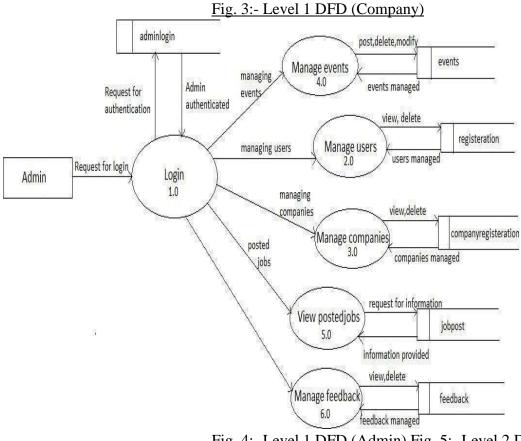
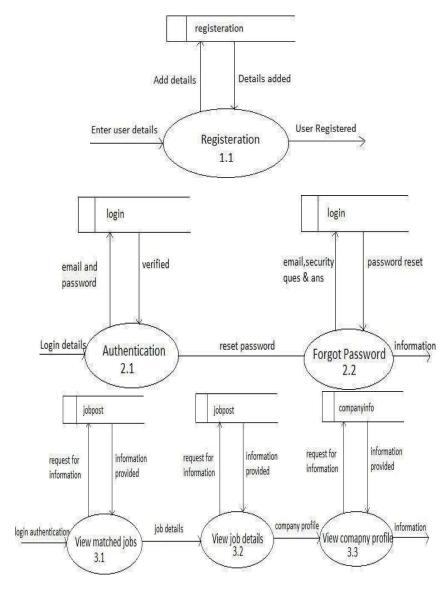
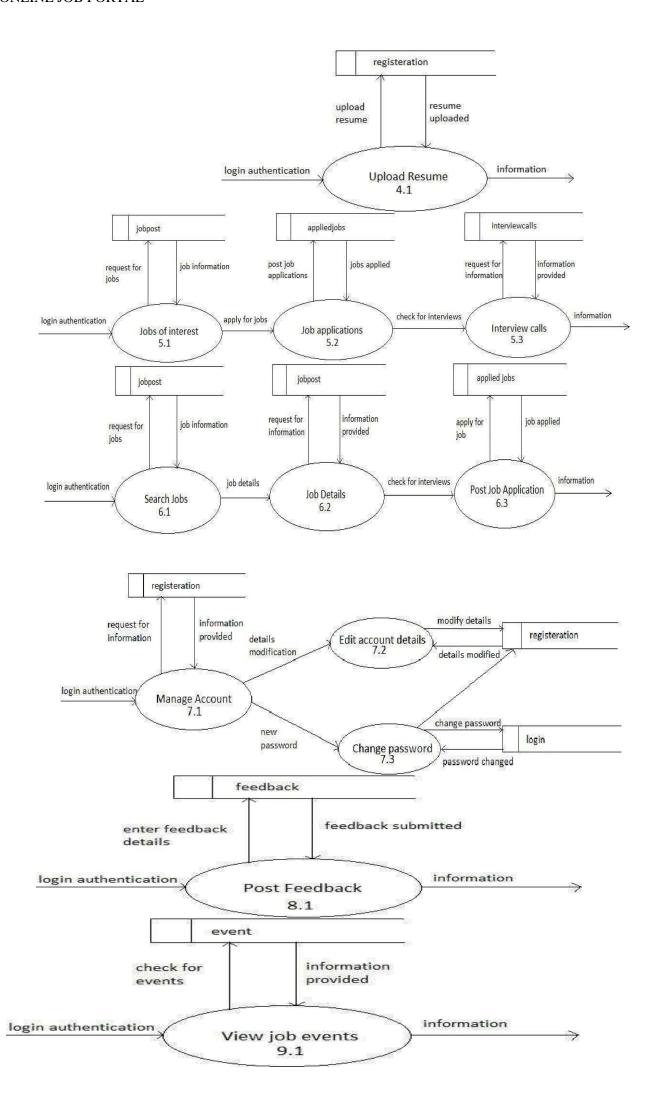


Fig. 4:- Level 1 DFD (Admin) Fig. 5:- Level 2 DFD

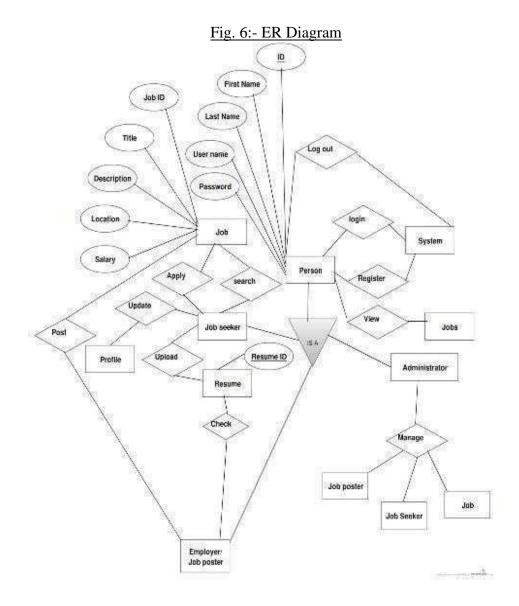




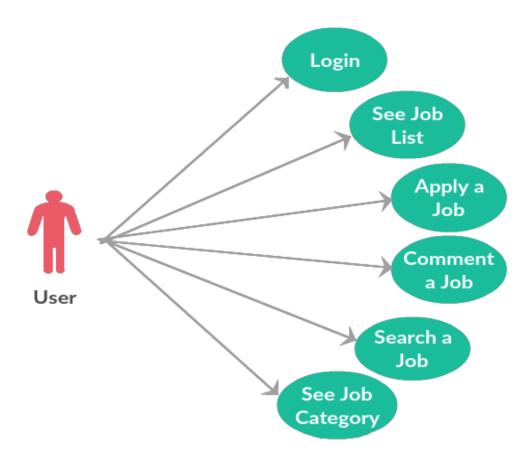
8. ER DIAGRAM

An entity-relationship diagram (ERD) is a graphical representation of an information system that shows the relationship between people, objects, places, concepts or events within that system. An ERD is a data modeling technique that can help define business processes and can be used as the foundation for a relational database.

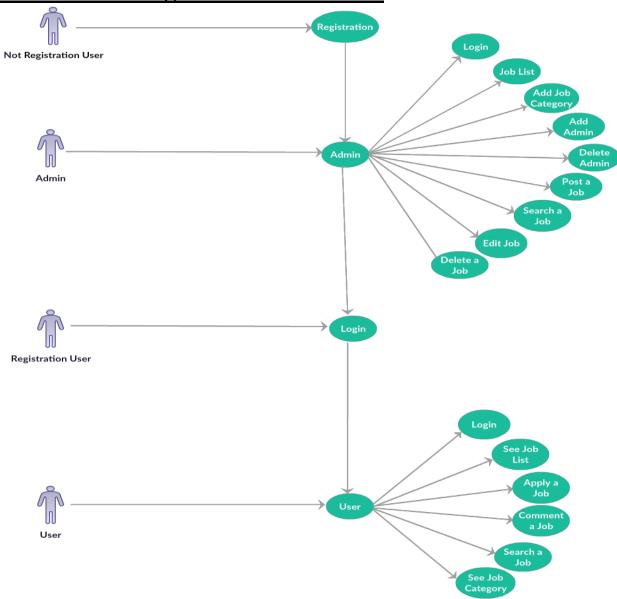
While useful for organizing data that can be represented by a relational structure, an entity relationship diagram cannot sufficiently represent semi-structured or unstructured data, and an ERD is unlikely to be helpful on its own in integrating data into a pre-existing information system .

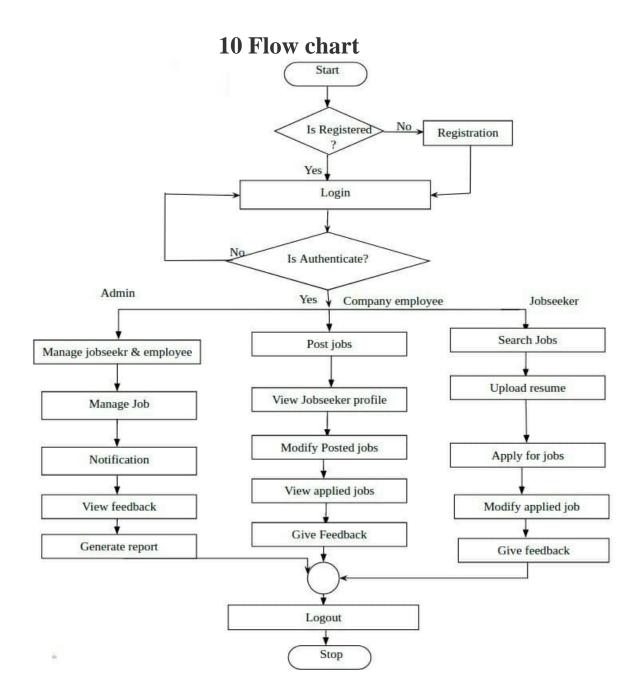


9 Use Case Diagram for User

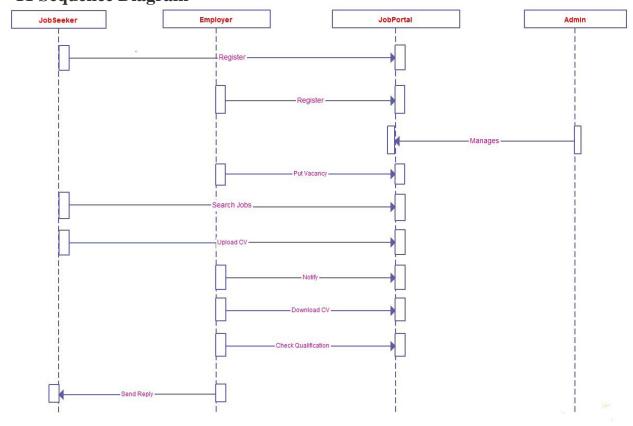


9.1Use Case Diagram for Online Jobs

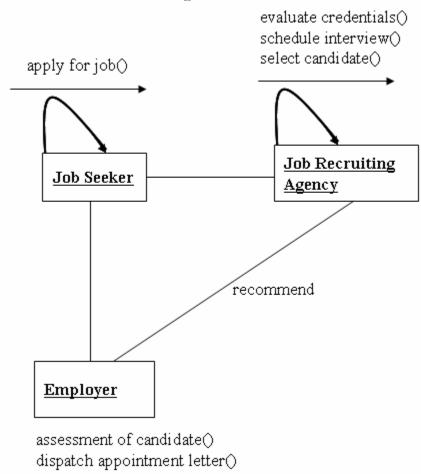




11 Sequence Diagram



12 Collaboration Diagram



9. Modules and their description

Admin

In this module admin add all qualifications, skills, experience, city, state, country and update and delete the submitter information job application or job applicant. You can also search for job seekers and offer job seekers a job.

Job Seekers

In this module, job seekers log in, upload syllabus summaries, and complete the profile specified by the administrator. Your resume and resume can be applied to the job under different conditions.

Job Provider

You can see the response from the company, and you can call the company person for an. You can also add new jobs, search for job seekers under different conditions, offer jobs to job seekers according to their job profiles, and view job feedback. Modules, admins and job providers notify job applicants.

Authentication

This module contains all the information on authenticated users. The user does not have a username and the password cannot be entered if it is only an authenticated user. You can then enter your identifiers.

Generate Report

Generates a report for the following entities.

a) List of existing jobs

b) List of employers

In this module, job seekers log in, upload syllabus summaries, and complete the profile specified by the administrator. Your resume and resume can be applied to the job under different conditions.

Job Provider

You can see the response from the company, and you can call the company person for an. You can also add new jobs, search for job seekers under different conditions, offer jobs to job seekers according to their job profiles, and view job feedback. Modules, admins and job providers notify job applicants.

Authentication

This module contains all the information on authenticated users. The user does not have a username and the password cannot be entered if it is only an authenticated user. You can then enter your identifiers.

• Generate Report

Generates a report for the following entities.

- c) List of existing jobs
- d) List of employers

10. Testing process used

You can run some or all of the following types of tests

i. Functional Tests:

These sites can be easily crawled by search engines. HTML and CSS tests to verify, includes checking for syntax errors, readable palettes that conform to the standard. Testing the W3C Database:

ii. Database Testing

Standards like the database are one of the key components of a web application and should be underlined to be thoroughly tested.

- Check if an error is displayed when executing a query
- Data integrity is maintained when creating, updating or deleting data in the database.
- Check the response time of the request and adjust it if necessary. The test data retrieved from the database is displayed correctly in the available web application tools.

• Test tools Selenium iii. Interface Testing:

Three areas to test here are the application, the web, and the database server.

• Application:

The test request is successfully sent to the database and the client-side output is displayed correctly. If there is an error, it will be detected by the application and will only be visible to the administrator and not to the end use.

Web Server-

The test web server handles all application requests without denial of service.

• Database server:

Check the following: Send a request to the database and you'll get the results you expect.

Tools that can be used: Ranorex

iv. Security Feature

The main concern that needs to be addressed to protect this web application is to prevent unauthorized users from accessing the protected content. Declaring (that is, authenticating) (2) grants or denies user access to the requested resource (such as permitting).

A simple and common way to implement access control for a web application is to use a login form that allows the server to compare a user's credentials with a list of previously authenticated users.

create pages for login and login failover Format-based authentication guides you through the authentication and authorization process in four steps:

- The client sends a request for protected resources to the server
- The server recognizes that: A protected resource is requested and a login page is returned to the client.
- Customer uses the provided form to submit username and password login information.
- If the server handles the connection and an authorized user is defined, the protected resource is returned. Otherwise, the error returned the page.

11. SCREEN SHOTS



Fig. 7:- Login page for user

2.4 Administrator

Administrator can be maintaining this website. They will be collect a job, post a job and add

all details job related to pics



Fig. 8:- Login page for admin

2.4.2 Administrator Login Page

In this page the administrator, must successfully login first then only he can use the website. However, the administrator knows about the username and the password.

2.4.3 Administrator change password page

In this page, the administrator can change the password according to him.

2.4.4 Employee Information Page

This page is the page in which there is all the information about the employer who is going to give advertisement about the job on the website.

2.5 Employer

2.5.2 Employer Registration form

In this form employer has to register firstly on the website then only he can add or removes the advertisements on the website. The employer can only register if the administrator gives him the rights to add his advertisements. In this page, he has to give his email address and his company name. In addition, he has fulfilled all the requirements, which the administrator give to him..

Fig. 9:- Registration for a new company on the application



Fig. 10:- Posted jobs by the company

JobSeeker Name:		
Address:		
City:		
Email:		
Mobile:		
Qualification:		
Other:		
Gender:	Male 🕶	
BirthDate:		
Upload Marksheet:	Choose File No file chosen	
User Name:		
Password:		
Security Question:	What is Your Pet Name? ✓	
Answer:		

Fig.11: Registration of a jobseeker on the application

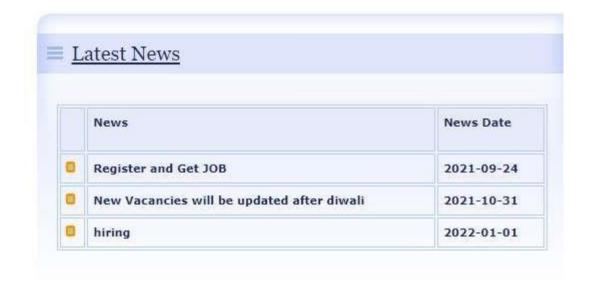


Fig. 12: Latest News



Fig. 13: Job seeker dashboard

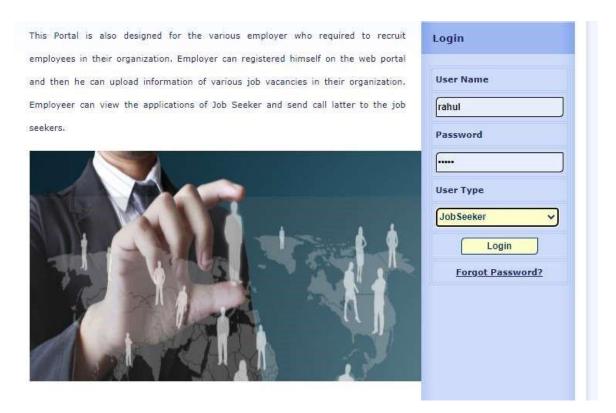


Fig. 14:Login as a Job seeker



Fig. 15:- Job seeker registration

17 Conclusion

This system has been developed successfully incorporate all the requirements. Appropriate care has taken during database design maintain database integrity and to avoid redundancy of data. This project was intended to help tackle the unemployment issues among the youth in Nigerian by means of providing an online recruitment Portal. The findings from the pilot study show that there is a demand for such a system to be implemented in Nigerian. This site was developed in such a way that any further modifications needed can be easily done.

18 Future Plan

We are planning to run an online job portal, similar to monster, where both job seekers and employers can meet. In future we will add change a profile description and cover images. If admin need delete a user, they will be doing this. If user need post a job, they will be sending a massage in admin. Admin can approvable this posting job

19 References

- 1 https://www.firstnaukri.com/
- 2. https://www.freshersworld.com/
- 3. https://jobs.google.com/