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Online Job Portal using Django

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Abstract: ***The main purpose of the job portal of the Django project is to manage job information, search, post jobs, register with employers, and find jobs. It manages all information regarding employers, interviews, job searches, and workplaces. The project was created with the administration closed, so it was easier for administrators to control it. The startup aims to create the necessary software to reduce the hassle of negotiations with employers, cover letters, interviews, and career guidance. It tracks all information regarding job postings, job listings, and job searches this article, the author presents an online recruitment system that allows employers to post recruitment advertisements, where job seekers come to apply for Volunteers while looking for a job. The event portal provides access to key events tailored to business needs. Online Event Portal is a website designed specifically for job searches. Administrators can access existing roles. Users need to register themselves and then log in. These jobs will be displayed to customers based on their search terms.***

Keywords: Recruiters, Recruiters, Managers, Recruiters, Python Django, LIKE operator, MVT, String Matching Algorithm.

I.INTRODUCTION

Today, there are many applications or portals for services to solve many problems. One of them is to have a portal for job seekers. Today, online recruitment has become the recruitment model for employers. Today, many online job portals share job information and act as a gateway to job search. However, the current system needs to be updated to make it easier for customers to use the portal. That's why we added the ability to use artificial intelligence to find errors and provide video feedback to improve performance. This project was created using Python Django, HTML, CSS, JavaScript, and Bootstrap 5. We have used MVT (Model, View, Template) to create this project, some websites provide a green way for job seekers to search for jobs. Online job portals have become a common approach for employers and job seekers to identify their targets.

This business will try to find job vacancies and available job statistics. Today's competition can be very high and employers need to choose the right candidate for them, and similarly, job seekers need to choose the right job for their career.

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So this job portal is where every need can be fulfilled properly. All projects are designed with the user's energy efficiency in mind. Features are modeled in 3NF to eliminate any uncertainty arising from database operations that can be performed by all customers and management entities. The user interface is basically a browser with distributed access to the existing system. The internal database is defined as MSSQL server200. Use a simple desktop location, group, and index model to ensure consistency and reliability in real storage. Job portals will allow companies looking for jobs to match, or at least romance, candidates. Facilitates research and development of next-generation Internet products. Recruiters can also find resumes that match relevant resources. In general, the main problem is to control the use of Python technology. At each stage, the control system must verify the correctness or compliance with specific operating rules.

II. METHODOLOGY

A. Existing System

"In the existing system, employers can post job listings and job seekers can apply based on their career and skills. Their career, skills, and abilities. There are several filters to suit the needs of job seekers and employers. Recruiters can effectively manage their profiles, track applicants, and store applicant information. An automatic email system has also been integrated for communication. We've been working on improving the user interface and functionality, including adding advanced keyword research tools. Our platform collects a large amount of user-generated content that provides valuable insights by analyzing data from various sources, including media, companies, organizations, and government departments. It is important to create the right infrastructure to store and analyze massive data streams. To support job seekers, we have added an FAQ page and information resources. Recognizing that search engine performance can be improved, we are working on plans to introduce additional features to improve user experience and make the portal more user-friendly. "

B. Proposed Solution

In response to the aforementioned problems, researchers have proposed improvements for online job portals. This project can be developed by developers using the Django web framework. The job portal will be a platform to simplify the process for employers and job seekers. The goal is to provide job seekers with a more efficient and convenient way to find work so that employers can fill vacancies quickly and environmentally and attract more candidates.

Overall Goal - The main goal of the research team is to create, expand, and implement an online project using the Django web framework. The researchers came together to achieve the following goals:

1. Reduce delays in the job search process.
2. Provide electronic recruitment and employment management.
3. Provide job seekers with environmentally friendly and reliable job search tools.
4. Establish principles to strengthen the process of recruiting and Hiring.
5. Evaluate our human acceptance system, performance, performance, controllability, performance, and reliability. "

C. Scope of the Study

"This project aims to present information and facilitate the development of an online platform using the Django Web Framework. The platform's focus is primarily on job postings and associated interactions and commitments. It will be accessible to both employers and job seekers. Employers can submit their job openings to the platform, and registered job seekers can search and apply for these positions. The intended user base for this platform includes companies, employers, and job seekers."

D. Significance of the Study

The following individuals and organizations may find information of interest:

- Employers: successful implementation of this project will facilitate operations for employers and can lead to increased productivity and revenue. Employers can easily publish and update job vacancies and related details as needed.
- Job seekers: This initiative provides a user-friendly platform for job seekers to find opportunities. They can easily publish and update their CV regularly. This innovation will significantly speed up the job search process for job seekers.
- Manager: Achieving positive results from this improvement will simplify the role of the manager. It will efficiently manage all devices and efficiently store candidate and employer information.
- Publishers: This program will develop the skills and resources of publishers so that they can create successful publications.
- Future researchers: This model provides valuable information for future researchers that will serve as a guide for developing a business portal system. "

III. ARCHITECTURE DIAGRAM

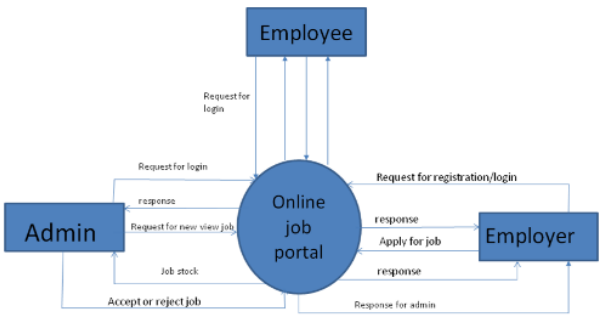

Fig. 1: First Level DFD Case Diagram

A. Explanation

"After entering the main page of the application, the user is presented with several options. Registered users can access their profiles using their login credentials. For unregistered users, the first step is to complete the registration process and then log in.

The program caters to two main categories of users: job seekers and entrepreneurs.

Key functions for job seekers include applying for jobs, tracking their application status, and accessing guidance materials through video resources.

Employers, on the other hand, are responsible for advertising available jobs, obtaining information from databases containing relevant jobs, and selecting suitable candidates. Once the candidate is selected, the employer has the ability to change the job status from "Vacancy" to "Employment" or cancel the job.

Administrators have access to a dashboard that allows them to view and manage information related to job seekers and employers stored in the database. "

B. Algorithm

"In our web application, we use a string matching algorithm that combines elements of the Naive Bayes string matching algorithm and the Rabin-Karp algorithm. This approach allows us to identify and verify string patterns. Using operators, we can find and display similar events. In one word, the user is exactly what he is looking for. provides the word. For example, if the user enters a word incorrectly spelled or typed, the matching string algorithm can correct the error by suggesting the word is spelled correctly."

C. Software Designing Architecture: MVT

"This model has a data interface that is responsible for storing data. It defines the logical data structure of the entire application and is represented by a database. The view forms the user interface of the web browser and contains the presentation of the web page. HTML, CSS, JavaScript and Jinja HTML templates Standard format for its standard output, but there are some special syntax that determine how to add dynamic content.

The module includes the following components:

i. Identity number
ii. Full name
iii. employer
iv. Petitioner
v. administrative staff".

D. Login

"The login module accepts a username and password. If the user is already registered, it will grant access to the user's control panel. For new users, the registration process involves providing their personal information."

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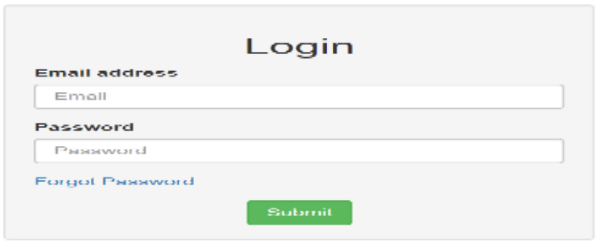

Fig. 2: Login Page

E. Registration

"This model allows users to access web applications by providing a name, email, password, and other information required to create an account."

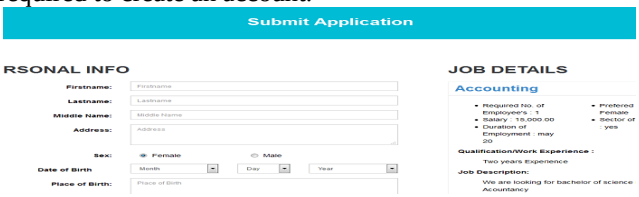

Fig. 3: Registration Page

F. Employer

1. Employers start by logging into their accounts.
2. They have the ability to post job information such as requirements,
3. specifications, working hours, wages, and work procedures.
4. Employers can then select suitable candidates until all positions are filled, at which point they can remove the job listing.

G. Administrator

1. Employers start by logging into their accounts.
2. It has the ability to send job information such as requirements, specifications, hours, wages, and work procedures.
3. Employers can then select suitable candidates until all positions are filled, at which point they can remove the job listing.

H. Job Seeker

1. Job seekers use credentials to log into the system.
2. They have the option to browse the list of available jobs and watch detailed videos about careers.
3. Job seekers can apply for positions that match their skills and can monitor the status of their job applications

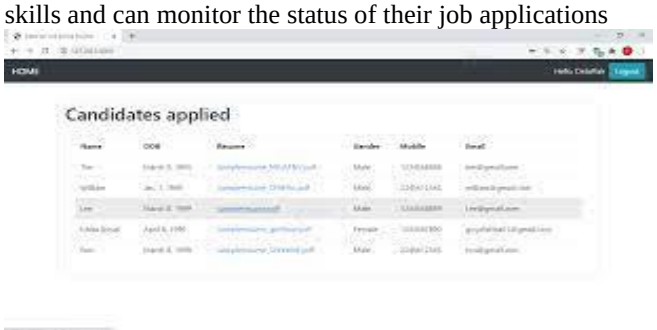

Fig. 4: Job Seeker

IV. CONCLUSION

"We are pleased to have met our design goals. This system is a valuable resource for job seekers and employers. After implementation, we have seen our system improve reliability, security, speed, flexibility, and user-friendliness. It provides highly efficient and advanced service delivery and productivity. Our website, which is displayed successfully meets all functional and non-functional requirements. The system is developed using a technology suite that includes Python, the Django framework, HTML, CSS, and JavaScript. We have also included sections for news, books, interviews, and more. Access to this system is restricted to genuine individuals. Job seekers can use this web application to create their resume.

V. FUTURE SCOPE

1. You can log in with your fingerprint.
2. We can arrange meetings over the phone.
3. Job seekers can improve their interview preparation with video training.

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Authors Contributions	All authors have equal participation in this article.

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