

# JOB PORTAL WEB-BASED APPLICATION USING PYTHON AND DJANGO

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## Abstract

In today's competitive job market, online recruitment systems play an important role in connecting employers and job seekers efficiently. This project presents the design and implementation of a Job Portal Web-Based Application using Python and Django framework. The system provides separate login modules for Admin and HR, allowing secure management of job postings, applicants, and company information. Admin manages overall system control, while HR can post jobs and review applications. The application reduces manual recruitment work and improves the hiring process by providing a centralized digital platform. The system is suitable for diploma-level academic projects.

Keywords: Job Portal, Web Application, Django, Admin Login, HR Login, Recruitment System

## 1. Introduction

Recruitment is an essential process for every organization. Traditional recruitment methods such as newspaper advertisements and walk-in interviews are time-consuming and inefficient. With the growth of internet technology, web-based job portals provide a faster and more reliable method for job posting and application tracking. This project focuses on developing a job portal system where companies can post job vacancies and manage applications online using secure role-based access.

## 2. Objectives of the System

- Provide secure login for Admin and HR
- Allow HR to post and manage job vacancies
- Allow Admin to manage HR accounts
- Maintain applicant and job records in database
- Reduce manual recruitment workload

## 3. System Modules

Admin Module:

- Manage HR accounts
- View reports and system data
- Maintain system settings

HR Module:

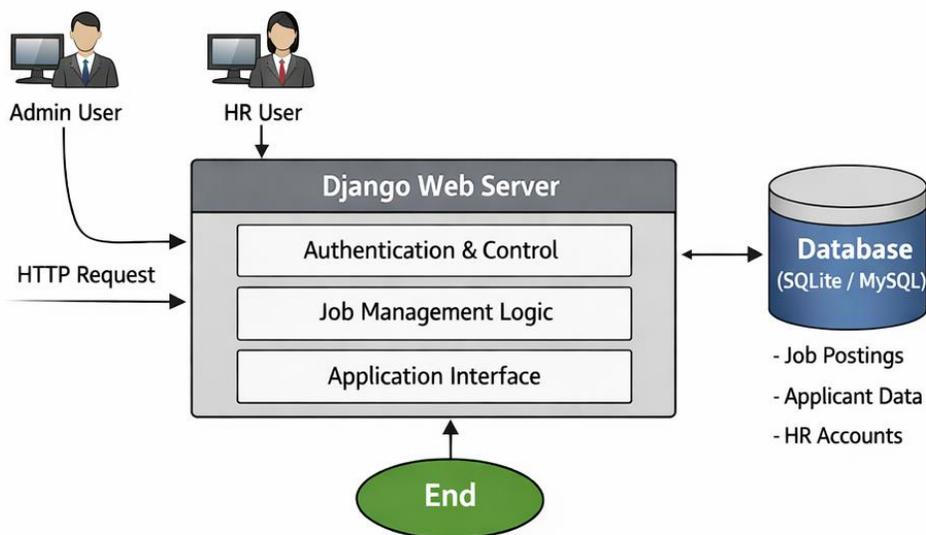
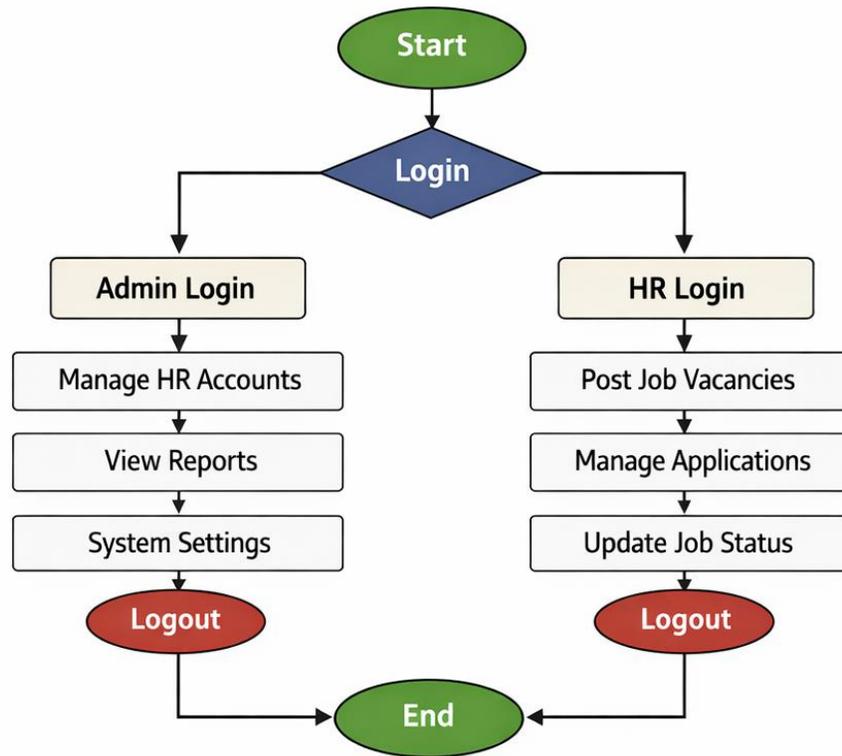
- Post job vacancies
- Manage applications
- Update job status

Database Module:

- Stores HR accounts, job postings, and applicant data

#### 4. System Flowchart and Architecture

The following diagram represents both the flow of the system and the system architecture. The flowchart shows how Admin and HR users log in and perform their respective operations. The architecture shows how client requests are processed by the Django web server and stored in the database.



## 5. Technology Used

Frontend: HTML, CSS, Bootstrap

Backend: Python, Django Framework

Database: SQLite / MySQL

Server: Django Web Server

Tools: VS Code, Web Browser

## 6. Advantages

- Reduces paperwork
- Fast recruitment process
- Secure role-based access
- Easy job management
- Centralized data storage

## 7. Applications

- Corporate recruitment systems
- Placement portals
- Consultancy agencies

## 8. Limitations

- No interview scheduling module
- No AI-based resume filtering
- Requires internet connection

## 9. Future Enhancements

- Candidate login and resume upload
- Email notification system
- Online interview scheduling
- Mobile application version

## 10. Conclusion

The Job Portal Web-Based Application successfully automates the recruitment process by providing a secure and efficient platform for job management. The Admin and HR login modules ensure role-based access control and system security. This project demonstrates practical implementation of web technologies using Django and is suitable for diploma-level academic requirements.

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