Job Portal Web Application - Documentation

1. Overview

This is a Flask-based Job Portal Web Application allowing Job Seekers, Employers, and Admins to interact.

Job Seekers can apply for jobs, Employers can post jobs, and Admins can view all users and jobs.

2. Requirements & Dependencies

Install required packages:

pip install flask

pip install flask_sqlalchemy

pip install werkzeug

Or use a requirements.txt:

Flask==2.3.2

Flask-SQLAlchemy==3.1.1

Werkzeug==2.3.6

3. Setup Instructions

1. Download or clone the project.

2. Navigate to the project folder in terminal.

3. Run: python job_portal_final.py

4. Visit: http://127.0.0.1:5000

Database 'jobportal.db' will be auto-created.

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4. Database Models

User Model:

- id, username, password, role

Job Model:

- id, title, description, salary, location, category, posted_by

Application Model:

- id, job_id, user_id

5. User Roles & Access

Job Seeker:

- View & apply to jobs

Employer:

- Post jobs

Admin:

- View all users & job listings

6. Route Descriptions

/   - Homepage with search and listings

/register   - Register new users

/login   - User login

/logout   - Logout session

/post_job   - Employers post jobs

/apply/<job_id> - Apply to job (job seekers only)

/admin   - Admin dashboard

7. User Manual

Register:

- Choose username, password, and role

Login:

- Access account and get role-based functionality

Job Seekers:

- Search and apply for jobs

Employers:

- Post new jobs via form

Admins:

- View all users and job listings