

Daffodil International Professional Training Institute

Formative Assessment - 3

Qualification: Web Application Development with Python

Batch: WADP-L4-B5

Time: 3 hours

Marks: 100

Question:

Create a Django project named **job_portal_project**. In this project, there are three types of users (Admin, Employer, Candidate). **Admin** can only view the list of registered Employer and Candidate accounts and verify user accounts. After verification, the Employer and Candidate accounts will be created, and they can log in. **Employers** can post jobs and manage their job-related information. **Candidates** can apply for jobs and manage their own applications.

Project Setup:

- **Project Name:** job_portal_project
- **App Name:** users_auth_app, employer_app, candidate_app
- **Model:** CustomUserModel, PendingAccountModel, EmployerProfileModel, CandidateProfileModel, JobModel, JobApplicationModel.

App Wise Model Setup:

- **users_auth_app:** CustomUserModel, PendingAccountModel
- **employer_app:** EmployerProfileModel, JobModel
- **candidate_app:** CandidateProfileModel, JobApplicationModel

User Account Management:

CustomUserModel Fields:

- username, email, password, phone, user_types (Admin, Employer, Candidate)

PendingAccountModel:

- username, email, phone, user_types(Employer, Candidate), pending_status (Pending, Accept, Rejected)

User Registration Form Fields:

- username, email, phone, user_types

Functionalities:

- Do not collect user passwords from the registration form.
- The phone number will be used as the password for every user.
- If the user type is **Admin**, the admin account is created automatically upon registration.
- If the user type is **Employer** or **Candidate**, their registration data is stored in the PendingAccountModel first. Their accounts are not created without admin approval.
- By default, the pending_status in PendingAccountModel will be 'Pending'.
- By default PendingAccountModel status will be the 'Pending'. If the admin accepts, the user account will be created and their data will be stored on the CustomUserModel. Also their data will be removed from the PendingAccountModel.
- Additionally, create initial user instance in the EmployerProfileModel or CandidateProfileModel with phone and email based on user type.

Admin Account:

- Admin only can show the registered Employer and Candidate list that stored on the PendingAccountModel. Also admin can change the pending_status by the button click.

Employer and Candidate Account:

- From the register page they can register their account but without admin accept their account not be created. They can't logged in.

EmployerProfileModel:

- employer_user (relation with the CustomUserModel), company_name, email, phone, about_company, company_logo, location

Functionalities:

- After logged in, they must be update their profile.

CandidateProfileModel:

- candidate_user (relation with the CustomUserModel), full_name, phone, email, address, data_of_birth

Functionalities:

- After logged in, they must be update their profile.

JobModel:

- employer(relation with the EmployerProfileModel), title, description, requirements, salary, job_type(Full-Time, Remote, Internship), deadline, posted_date

Functionalities:

- Apply CRUD operation

- Employers can show their own job post.
- They can show the job wise candidates job application.

JobApplicationModel:

- job(relation with the JobModel)
- candidate(relation with the CandidateProfileModel)
- last_education
- work_experience
- status(Applied, Interview, Offered, Rejected)
- applied_at

Functionalities:

- Apply CRUD operation.
- Candidate can show their own job application.
- If status is Applied, then Candidate can update or delete their Job Application. Otherwise they can not update or delete their application.

Job Application Status Update:

- Only Employer can change the status by clicking the button will cycle through: Applied → Interview → Offered → Rejected

Navbar Template:

- **Pending Account List:** Only Admin can show the pending account list.
- **Dashboard:** Display the all the job as card.
- **Job List:** Candidate can show all job list. Employers can show only their own job list.
- **Applied Job:** Candidate can show their own applied job list.
- **Profile**
- **Logout**

Marks Breakdown – 100 Marks:

1. Project Setup and App Initializations – **10 Marks**
2. User Management – **30 Marks**
3. Employer Job Management – **20 Marks**
4. Candidate Job Management - **20 Marks**
5. Profile Update – **10 Marks**
6. Change Password – **10 Marks**

Note: Must be follow the instruction.