Job Portal in Python Django Framework – Where all the Applicants and Companies connect with each other.

In this job portal project, the applicants requiring a job can connect to the companies. It is a great platform for both the applicants and also for all the companies.

### **About the Job Portal System:**

In this job portal, the applicants and companies can register themselves. Both are provided with different roles. The applicant can see a list of jobs available and can apply to any that matches his/her skill set. Similarly, the companies can add new jobs and select the applicants those who have applied for that job by seeing their resume.

### **Django Job Portal System:**

The main purpose of this project is to create job opportunities for the applicants. It will be a great opportunity for the applicants to get a chance at various companies. This portal can also create more employment which is very much needed.

### **Project Prerequisites**

This project requires a basic knowledge of Django. It’s a good project to start from. For the front-end part html, css and bootstrap is required with a very little of javascript.

### **Project File Structure**

First, let’s check the steps to build the Job Portal System in Python Django Framework:

1. Create a project with an app.
2. Then create the required folders for templates, static files (images, javascript and css files) and media (images uploaded through backend)
3. Run the migrate command.
4. Create a superuser.
5. Finally, start creating the required urls and views.

**Models.py :**

from django.db import models

from django.contrib.auth.models import User

class Applicant(models.Model):

    user = models.ForeignKey(User, on\_delete=models.CASCADE)

    phone = models.CharField(max\_length=10)

    image = models.ImageField(upload\_to="")

    gender = models.CharField(max\_length=10)

    type = models.CharField(max\_length=15)

    def \_\_str\_\_(self):

        return self.user.first\_name

class Company(models.Model):

    user = models.ForeignKey(User, on\_delete=models.CASCADE)

    phone = models.CharField(max\_length=10)

    image = models.ImageField(upload\_to="")

    gender = models.CharField(max\_length=10)

    type = models.CharField(max\_length=15)

    status = models.CharField(max\_length=20)

    company\_name = models.CharField(max\_length=100)

    def \_\_str\_\_ (self):

        return self.user.username

class Job(models.Model):

    company = models.ForeignKey(Company, on\_delete=models.CASCADE)

    start\_date = models.DateField()

    end\_date = models.DateField()

    title = models.CharField(max\_length=200)

    salary = models.FloatField()

    image = models.ImageField(upload\_to="")

    description = models.TextField(max\_length=400)

    experience = models.CharField(max\_length=100)

    location = models.CharField(max\_length=100)

    skills = models.CharField(max\_length=200)

    creation\_date = models.DateField()

    def \_\_str\_\_ (self):

        return self.title

class Application(models.Model):

    company = models.CharField(max\_length=200, default="")

    job = models.ForeignKey(Job, on\_delete=models.CASCADE)

    applicant = models.ForeignKey(Applicant, on\_delete=models.CASCADE)

    resume = models.ImageField(upload\_to="")

    apply\_date = models.DateField()

    def \_\_str\_\_ (self):

        return str(self.applicant)

1. **Home page navigation bar (basic.html):**
2. <nav class="navbar navbar-expand-lg sticky-top navbar-dark">
3. <div class="container-fluid w-50">
4. <a class="navbar-brand" href="#">Job Portal</a>
5. <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
6. <span class="navbar-toggler-icon"></span>
7. </button>
8. <div class="collapse navbar-collapse" id="navbarSupportedContent">
9. <ul class="navbar-nav me-auto mb-2 mb-lg-0">
10. {% if not request.user.is\_authenticated %}
11. <li class="nav-item">
12. <a class="nav-link {% block home %} {% endblock %}" aria-current="page" href="/">Home</a>
13. </li>
14. <li class="nav-item">
15. <a class="nav-link {% block user\_login %} {% endblock %}" href="/user\_login/">User Login</a>
16. </li>
17. <li class="nav-item">
18. <a class="nav-link {% block admin\_login %} {% endblock %}" href="/admin\_login/">Admin Login</a>
19. </li>
20. <li class="nav-item">
21. <a class="nav-link {% block company\_login %} {% endblock %}" href="/company\_login/">Company Login</a>
22. </li>
23. {% else %}
24. <li class="nav-item">
25. <a class="nav-link active" href="/logout/">Logout</a>
26. </li>
27. </ul>
28. {% endif %}
29. </div>
30. </div>
31. </nav>

**Code Explanation:**

In total there are 4 navigation bars for the home page, signup and login pages, for users, for companies and lastly for the admin. The above code is for the projects home page, signup and login pages. As soon as the project is opened there would be 3 options available that is user login, admin login and the company login. Users can login or signup through user login option and similarly, the admin and the companies. If the users are already authenticated then rather than the login options, a logout option is shown.

1. **Home page (index.html):**
2. <div class="container-fluid mt-2">
3. <img src="{% static 'industries-recruitment.png' %}" alt="" width="100%" height="450px">
4. </div>
5. <div class="container-fluid mt-2" style="background-color: #4f868c; width: 100%;">
6. <div class="row">
7. <div class="col-md-4">
8. <h3 style="color: aliceblue;">Contact Us</h3>
9. <p style="color: aliceblue">Email:&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;jobportal@gmail.com</p>
10. <p style="color: aliceblue">Mobile No.:&nbsp;&nbsp;9745632121</p>
11. </div>
12. </div>
13. </div>

**Views.py :**

def index(request):

    return render(request, "index.html")

**Code Explanation:**

The navigation bar (basic.html) is extended on the home page. An image with a contact us container is also shown. The email id and mobile number is provided in the contact us section as the contacting details.

1. **User Signup and login page (user\_login.html) and (signup.html):**

**User Login:**

1. <form method="POST"> {% csrf\_token %}
2. <div class="container mt-5">
3. <h6>Haven't register yet, then click here        <a href="/signup/" type="submit" class="btn" style="background-color: #4f868c; color: white;">Signup</a>
4. </h6>
5. <div class="mb-3">
6. <label for="username" class="form-label"><i style="font-weight: bold;">Username</i></label>
7. <input type="text" class="form-control" id="username" name="username" placeholder="Enter Username">
8. </div>
9. <div class="mb-3">
10. <label for="password" class="form-label"><i style="font-weight: bold;">Password</i></label>
11. <input type="password" class="form-control" id="password" name="password" placeholder="Enter Password">
12. </div>
13. <br>
14. <input type="submit" value="Submit" class="btn" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">
15. </div>
16. </form>

**Views.py :**

def user\_login(request):

    if request.user.is\_authenticated:

        return redirect("/")

    else:

        if request.method == "POST":

            username = request.POST['username']

            password = request.POST['password']

            user = authenticate(username=username, password=password)

            if user is not None:

                user1 = Applicant.objects.get(user=user)

                if user1.type == "applicant":

                    login(request, user)

                    return redirect("/user\_homepage")

            else:

                thank = True

                return render(request, "user\_login.html", {"thank":thank})

    return render(request, "user\_login.html")

**User Signup:**

<form class="container mt-4" method="POST" enctype="multipart/form-data">

    {% csrf\_token %}

    <div class="row">

        <div class="form-group col-md-6">

            <label>First Name</label>

            <input type="text" class="form-control" name="first\_name" id="first\_name" placeholder="Enter First Name">

        </div>

        <div class="form-group col-md-6">

            <label>Last Name</label>

            <input type="text" class="form-control" name="last\_name" id="last\_name" placeholder="Enter Last Name">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-6">

            <label>Password</label>

            <input type="password" class="form-control" name="password1" id="password1" placeholder="Enter Password">

        </div>

        <div class="form-group col-md-6">

            <label>Confirm Password</label>

            <input type="password" class="form-control" name="password2" id="password2" placeholder="Confirm Password">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-6">

            <label>Email Id</label>

            <input type="email" class="form-control" name="email" id="email" placeholder="Enter Email Id">

        </div>

        <div class="form-group col-md-6">

            <label>Contact Number</label>

            <input type="tel" class="form-control" name="phone" id="phone" placeholder="Enter Contact Number">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-6">

            <label>Gender</label>

            <div style="border: 1px solid lightgrey; padding: 5px; border-radius: 6px;">

            <div class="form-check form-check-inline">

                <input type="radio" class="custom-control-input" name="gender" id="male" value="Male">

                <label for="male" class="custom-control-label">Male</label>

            </div>

            <div class="form-check form-check-inline">

                <input type="radio" class="custom-control-input" name="gender" id="female" value="Female">

                <label for="female" class="custom-control-label">Female</label>

            </div>

        </div>

        </div>

        <div class="form-group col-md-6">

            <label>Profile Picture</label>

            <input type="file" class="form-control" name="image" id="image" placeholder="Enter Last Name">

        </div>

    </div>

    <br>

<input type="submit" value="Submit" class="btn" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">

</form>

**Views.py :**

def signup(request):

    if request.method=="POST":

        username = request.POST['email']

        first\_name=request.POST['first\_name']

        last\_name=request.POST['last\_name']

        password1 = request.POST['password1']

        password2 = request.POST['password2']

        phone = request.POST['phone']

        gender = request.POST['gender']

        image = request.FILES['image']

        if password1 != password2:

            messages.error(request, "Passwords do not match.")

            return redirect('/signup')

        user = User.objects.create\_user(first\_name=first\_name, last\_name=last\_name, username=username, password=password1)

        applicants = Applicant.objects.create(user=user, phone=phone, gender=gender, image=image, type="applicant")

        user.save()

        applicants.save()

        return render(request, "user\_login.html")

    return render(request, "signup.html")

**Code Explanation:**

All the applicants can click on user login and if they haven’t signed up yet then they can click on signup. There they can fill the required details and register them as an applicant in the portal. After successful signup the user will be known as an applicant and can now login with the username and password.

1. **User profile page (user\_homepage.html):**

<div class="container">

    <div class="row">

        <div class="col-sm-6">

            <form class="container mt-4" method="POST" enctype="multipart/form-data">

                {% csrf\_token %}

                <div class="row">

                    <div class="form-group col-md-6">

                        <label>First Name</label>

                        <input type="text" class="form-control mt-2" name="first\_name" id="first\_name"

                            value="{{applicant.user.first\_name}}" required>

                    </div>

                    <div class="form-group col-md-6">

                        <label>Last Name</label>

                        <input type="text" class="form-control mt-2" name="last\_name" id="last\_name"

                        value="{{applicant.user.last\_name}}" required>

                    </div>

                </div>

                <div class="row mt-4">

                    <div class="form-group col-md-12">

                        <label>Username</label>

                        <input type="text" class="form-control mt-2" name="username" id="username"

                            value="{{applicant.user.username}}" readonly>

                    </div>

                </div>

                <div class="row mt-4">

                    <div class="form-group col-md-6">

                        <label>Email Id</label>

                        <input type="email" class="form-control mt-2" name="email" id="email" value="{{applicant.user.email}}" required>

                    </div>

                    <div class="form-group col-md-6">

                        <label>Contact Number</label>

                        <input type="tel" class="form-control mt-2" name="phone" id="phone" value="{{applicant.phone}}" required>

                    </div>

                </div>

                <div class="row mt-4">

                    <div class="form-group col-md-6">

                        <label>Gender</label>

                        {% if applicant.gender == "Male" %}

                        <div class="mt-2" style="border: 1px solid lightgrey; padding: 5px; border-radius: 6px;">

                            <div class="form-check form-check-inline">

                                <input type="radio" class="custom-control-input" name="gender" value="Male" checked>

                                <label for="male" class="custom-control-label">Male</label>

                            </div>

                            <div class="form-check form-check-inline">

                                <input type="radio" class="custom-control-input" name="gender"

                                    value="Female">

                                <label for="female" class="custom-control-label">Female</label>

                            </div>

                        </div>

                        {% else %}

                        <div style="border: 1px solid lightgrey; padding: 5px; border-radius: 6px;">

                            <div class="form-check form-check-inline">

                                <input type="radio" class="custom-control-input" name="gender" value="Male">

                                <label for="male" class="custom-control-label">Male</label>

                            </div>

                            <div class="form-check form-check-inline">

                                <input type="radio" class="custom-control-input" name="gender"

                                    value="Female" checked>

                                <label for="female" class="custom-control-label">Female</label>

                            </div>

                        </div>

                        {% endif %}

                    </div>

                    <div class="form-group col-md-6">

                        <label>Profile Photo</label>

                        <input type="file" class="form-control mt-2" name="image" id="image">

                    </div>

                </div>

                <input type="submit" value="Submit" class="btn mt-4" accept="image/\*" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">

            </form>

        </div>

        <div class="col-sm-4 mt-5 text-center">

            <img src="{{applicant.image.url}}" alt="" width="200px" height="200px">

        </div>

    </div>

</div>

**Views.py :**

def user\_homepage(request):

    if not request.user.is\_authenticated:

        return redirect('/user\_login/')

    applicant = Applicant.objects.get(user=request.user)

    if request.method=="POST":

        email = request.POST['email']

        first\_name=request.POST['first\_name']

        last\_name=request.POST['last\_name']

        phone = request.POST['phone']

        gender = request.POST['gender']

        applicant.user.email = email

        applicant.user.first\_name = first\_name

        applicant.user.last\_name = last\_name

        applicant.phone = phone

        applicant.gender = gender

        applicant.save()

        applicant.user.save()

        try:

            image = request.FILES['image']

            applicant.image = image

            applicant.save()

        except:

            pass

        alert = True

        return render(request, "user\_homepage.html", {'alert':alert})

    return render(request, "user\_homepage.html", {'applicant':applicant})

**Code Explanation:**

As soon as the applicant logs in, the applicant is redirected to the profile page. On the profile page, all the details about the applicant are displayed which the applicant has given during the time of signup. The applicant is also able to edit some of the information after login.

1. **Job List Page (all\_jobs.html):**

<div class="container mt-4">

<table class="table table-hover" id="example">

    <thead>

        <tr>

            <th>Sr.No</th>

            <th>Company Name</th>

            <th>Job Title</th>

            <th>Salary</th>

            <th>Location</th>

            <th>Created On</th>

            <th>Apply</th>

        </tr>

    </thead>

    <tbody>

        {% for job in jobs %}

        <tr>

            <td>{{forloop.counter}}</td>

            <td>{{job.company.company\_name}}</td>

            <td>{{job.title}}</td>

            <td>{{job.salary}}</td>

            <td>{{job.location}}</td>

            <td>{{job.creation\_date}}</td>

            {% if job.id in data %}

            <td><a class="btn btn-success">Applied</a></td>

            {% else %}

            <td><a href="/job\_detail/{{job.id}}/" class="btn btn-success">Apply</a></td>

            {% endif %}

        </tr>

        {% endfor %}

    </tbody>

</table>

</div>

**Views.py :**

def all\_jobs(request):

    jobs = Job.objects.all().order\_by('-start\_date')

    applicant = Applicant.objects.get(user=request.user)

    apply = Application.objects.filter(applicant=applicant)

    data = []

    for i in apply:

        data.append(i.job.id)

    return render(request, "all\_jobs.html", {'jobs':jobs, 'data':data})

**Code Explanation:**

Then there is an option of job lists in the navigation bar for all the applicants who are logged in to their accounts. On clicking on job list option, the applicant is able to view all the available jobs. There is an apply button created for each job. If the title of the job matches the applicant’s skills or interests then the applicant can click on the apply button to view the job in detail.

1. **Job Detail Page (job\_detail.html):**
2. <div class="container mt-4 shadow-lg py-3 mb-4">
3. <div class="row">
4. <div class="col-md-4">
5. <img src="{{job.image.url}}" alt="" width="350px" height="250px">
6. </div>
7. <div class="col-md-6">
8. <h2>{{job.title}}</h2>
9. <p>{{job.company.company\_name}}<i><a href=""> (View All Jobs)</a></i></p>
10. <i class="fa fa-map-marker">{{job.location}}</i>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
11. <i class="fa fa-calendar">{{job.creation\_date}}</i>
12. <br>
13. <strong>Salary: <i class="fa fa-inr mr-2"></i>₹ {{job.salary}}/month</strong>
14. <div class="mt-3">
15. <a href="/job\_apply/{{job.id}}/" class="btn btn-danger">Apply For The Job</a>
16. </div>
17. </div>
18. </div>
19. <div class="mt-4">
20. <h3>Overview</h3>
21. <p>{{job.description}}</p>
22. <h4>Required Experience</h4>
23. <p>{{job.experience}} years</p>
24. <h4>Skills Required</h4>
25. <p>{{job.skills}}</p>
26. <h4>Start Date</h4>
27. <p>{{job.start\_date}}</p>
28. </div>
29. </div>

**Views.py :**

def job\_detail(request, myid):

    job = Job.objects.get(id=myid)

    return render(request, "job\_detail.html", {'job':job})

**Code Explanation:**

When the applicant clicks on the apply button, then the applicant can view all the details of that job. After viewing all the details about the job, the applicant can click on the apply for job button if the applicant wants to apply for it.

1. **Uploading the resume for the job (job\_apply.html):**
2. <div class="container mt-4 shadow-lg py-3 mb-4">
3. <form method="POST" enctype="multipart/form-data"> {% csrf\_token %}
4. <div class="form-row">
5. <label>Upload Resume</label>
6. <input type="file" class="form-control mt-3" name="resume" id="resume">
7. </div>
8. <input type="submit" value="Submit" class="btn btn-danger mt-3">
9. </form>
10. </div>

**Views.py :**

def job\_apply(request, myid):

    if not request.user.is\_authenticated:

        return redirect("/user\_login")

    applicant = Applicant.objects.get(user=request.user)

    job = Job.objects.get(id=myid)

    date1 = date.today()

    if job.end\_date < date1:

        closed=True

        return render(request, "job\_apply.html", {'closed':closed})

    elif job.start\_date > date1:

        notopen=True

        return render(request, "job\_apply.html", {'notopen':notopen})

    else:

        if request.method == "POST":

            resume = request.FILES['resume']

            Application.objects.create(job=job, company=job.company, applicant=applicant, resume=resume, apply\_date=date.today())

            alert=True

            return render(request, "job\_apply.html", {'alert':alert})

    return render(request, "job\_apply.html", {'job':job})

**Code Explanation:**

The applicant can finally send the resume to the company that he/she wished to apply for. The company can check the resume and contact the applicant if the company wants.

1. **Company Login and Signup (company\_login.html) and (company\_signup.html):**

**Company Login:**

1. <form method="POST">
2. {% csrf\_token %}
3. <div class="container mt-5">
4. <h6>Haven't register yet, then click here        <a href="/company\_signup/" type="submit" class="btn" style="background-color: #4f868c; color: white;">Signup</a>
5. <div class="mb-3">
6. <label for="username" class="form-label"><i style="font-weight: bold;">Username</i></label>
7. <input type="text" class="form-control" id="username" name="username" placeholder="Enter Username">
8. </div>
9. <div class="mb-3">
10. <label for="password" class="form-label"><i style="font-weight: bold;">Password</i></label>
11. <input type="password" class="form-control" id="password" name="password" placeholder="Enter Password">
12. </div>
13. <br>
14. <input type="submit" value="Submit" class="btn" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">
15. </div>
16. </form>

**Views.py :**

def company\_login(request):

    if request.method == "POST":

        username = request.POST['username']

        password = request.POST['password']

        user = authenticate(username=username, password=password)

        if user is not None:

            user1 = Company.objects.get(user=user)

            if user1.type == "company" and user1.status != "pending":

                login(request, user)

                return redirect("/company\_homepage")

        else:

            alert = True

            return render(request, "company\_login.html", {"alert":alert})

    return render(request, "company\_login.html")

**Company Signup:**

<form class="container mt-4" method="POST" enctype="multipart/form-data">

    {% csrf\_token %}

    <div class="row">

        <div class="form-group col-md-6">

            <label>First Name</label>

            <input type="text" class="form-control" name="first\_name" id="first\_name" placeholder="Enter First Name">

        </div>

        <div class="form-group col-md-6">

            <label>Last Name</label>

            <input type="text" class="form-control" name="last\_name" id="last\_name" placeholder="Enter Last Name">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-12">

            <label>Username</label>

            <input type="text" class="form-control" name="username" id="username" placeholder="Enter Username">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-6">

            <label>Password</label>

            <input type="password" class="form-control" name="password1" id="password1" placeholder="Enter Password">

        </div>

        <div class="form-group col-md-6">

            <label>Confirm Password</label>

            <input type="password" class="form-control" name="password2" id="password2" placeholder="Confirm Password">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-6">

            <label>Email Id</label>

            <input type="email" class="form-control" name="email" id="email" placeholder="Enter Email Id">

        </div>

        <div class="form-group col-md-6">

            <label>Contact Number</label>

            <input type="tel" class="form-control" name="phone" id="phone" placeholder="Enter Contact Number">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-6">

            <label>Gender</label>

            <div style="border: 1px solid lightgrey; padding: 5px; border-radius: 6px;">

            <div class="form-check form-check-inline">

                <input type="radio" class="custom-control-input" name="gender" id="male" value="Male">

                <label for="male" class="custom-control-label">Male</label>

            </div>

            <div class="form-check form-check-inline">

                <input type="radio" class="custom-control-input" name="gender" id="female" value="Female">

                <label for="female" class="custom-control-label">Female</label>

            </div>

        </div>

        </div>

        <div class="form-group col-md-6">

            <label>Logo of the Company</label>

            <input type="file" class="form-control" name="image" id="image" placeholder="Enter Last Name">

        </div>

    </div>

    <div class="row mt-4">

        <div class="form-group col-md-12">

            <label>Company Name</label>

            <input type="text" class="form-control" name="company\_name" id="company\_name" placeholder="Enter Name of the Company">

        </div>

    </div>

    <br>

<input type="submit" value="Submit" class="btn" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">

</form>

**Views.py :**

def company\_signup(request):

    if request.method=="POST":

        username = request.POST['username']

        email = request.POST['email']

        first\_name=request.POST['first\_name']

        last\_name=request.POST['last\_name']

        password1 = request.POST['password1']

        password2 = request.POST['password2']

        phone = request.POST['phone']

        gender = request.POST['gender']

        image = request.FILES['image']

        company\_name = request.POST['company\_name']

        if password1 != password2:

            messages.error(request, "Passwords do not match.")

            return redirect('/signup')

        user = User.objects.create\_user(first\_name=first\_name, last\_name=last\_name, email=email, username=username, password=password1)

        company = Company.objects.create(user=user, phone=phone, gender=gender, image=image, company\_name=company\_name, type="company", status="pending")

        user.save()

        company.save()

        return render(request, "company\_login.html")

    return render(request, "company\_signup.html")

**Code Explanation:**

Similar to the applicants, all the companies first have to register their company to the portal. All the basic details of the Company will be taken while the registration process. After successful registration the company can login through the username and password.

1. **Company Profile Page (company\_homepage.html):**
2. <div class="container">
3. <div class="row">
4. <div class="col-sm-6">
5. <form class="container mt-4" method="POST" enctype="multipart/form-data">
6. {% csrf\_token %}
7. <div class="row">
8. <div class="form-group col-md-6">
9. <label>First Name</label>
10. <input type="text" class="form-control" name="first\_name" id="first\_name"
11. value="{{company.user.first\_name}}" required>
12. </div>
13. <div class="form-group col-md-6">
14. <label>Last Name</label>
15. <input type="text" class="form-control" name="last\_name" id="last\_name"
16. value="{{company.user.last\_name}}" required>
17. </div>
18. </div>
19. <div class="row mt-4">
20. <div class="form-group col-md-12">
21. <label>Username</label>
22. <input type="text" class="form-control" name="username" id="username"
23. value="{{company.user.username}}" readonly>
24. </div>
25. </div>
26. <div class="row mt-4">
27. <div class="form-group col-md-12">
28. <label>Company Name</label>
29. <input type="text" class="form-control" name="company\_name" id="company\_name"
30. value="{{company.company\_name}}" readonly>
31. </div>
32. </div>
33. <div class="row mt-4">
34. <div class="form-group col-md-6">
35. <label>Email Id</label>
36. <input type="email" class="form-control" name="email" id="email" value="{{company.user.email}}" required>
37. </div>
38. <div class="form-group col-md-6">
39. <label>Contact Number</label>
40. <input type="tel" class="form-control" name="phone" id="phone" value="{{company.phone}}" required>
41. </div>
42. </div>
43. <div class="row mt-4">
44. <div class="form-group col-md-6">
45. <label>Gender</label>
46. {% if company.gender == "Male" %}
47. <div style="border: 1px solid lightgrey; padding: 5px; border-radius: 6px;">
48. <div class="form-check form-check-inline">
49. <input type="radio" class="custom-control-input" name="gender" value="Male" checked>
50. <label for="male" class="custom-control-label">Male</label>
51. </div>
52. <div class="form-check form-check-inline">
53. <input type="radio" class="custom-control-input" name="gender"
54. value="Female">
55. <label for="female" class="custom-control-label">Female</label>
56. </div>
57. </div>
58. {% else %}
59. <div style="border: 1px solid lightgrey; padding: 5px; border-radius: 6px;">
60. <div class="form-check form-check-inline">
61. <input type="radio" class="custom-control-input" name="gender" value="Male">
62. <label for="male" class="custom-control-label">Male</label>
63. </div>
64. <div class="form-check form-check-inline">
65. <input type="radio" class="custom-control-input" name="gender"
66. value="Female" checked>
67. <label for="female" class="custom-control-label">Female</label>
68. </div>
69. </div>
70. {% endif %}
71. </div>
72. <div class="form-group col-md-6">
73. <label>Logo of the Company</label>
74. <input type="file" class="form-control" name="image" id="image">
75. </div>
76. </div>
77. <input type="submit" value="Submit" class="btn mt-4" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">
78. </form>
79. </div>
80. <div class="col-sm-4 mt-5 text-center">
81. <img src="{{company.image.url}}" alt="" width="200px" height="200px">
82. </div>
83. </div>
84. </div>

**Views.py :**

def company\_homepage(request):

    if not request.user.is\_authenticated:

        return redirect("/company\_login")

    company = Company.objects.get(user=request.user)

    if request.method=="POST":

        email = request.POST['email']

        first\_name=request.POST['first\_name']

        last\_name=request.POST['last\_name']

        phone = request.POST['phone']

        gender = request.POST['gender']

        company.user.email = email

        company.user.first\_name = first\_name

        company.user.last\_name = last\_name

        company.phone = phone

        company.gender = gender

        company.save()

        company.user.save()

        try:

            image = request.FILES['image']

            company.image = image

            company.save()

        except:

            pass

        alert = True

        return render(request, "company\_homepage.html", {'alert':alert})

    return render(request, "company\_homepage.html", {'company':company})

**Code Explanation:**

After login the company profile page is shown where the company can edit some of the details.

1. **Add Jobs by the Company (add\_job.html)**
2. <form class="container mt-3" method="POST" enctype="multipart/form-data">
3. {% csrf\_token %}
4. <div class="row">
5. <div class="form-group col-md-12">
6. <label>Job Title</label>
7. <input type="text" class="form-control" name="job\_title" id="job\_title" placeholder="Job Title" required>
8. </div>
9. </div>
11. <div class="row mt-3">
12. <div class="form-group col-md-6">
13. <label>Start Date</label>
14. <input type="date" class="form-control" name="start\_date" id="start\_date" placeholder="Start Date" required>
15. </div>
16. <div class="form-group col-md-6">
17. <label>End Date</label>
18. <input type="date" class="form-control" name="end\_date" id="end\_date" placeholder="End Date" required>
19. </div>
20. </div>
21. <div class="row mt-3">
22. <div class="form-group col-md-6">
23. <label>Company Logo</label>
24. <input type="file" class="form-control" name="logo" id="logo" placeholder="Enter Comapny Logo" required>
25. </div>
26. <div class="form-group col-md-6">
27. <label>Salary (per month)</label>
28. <input type="tel" class="form-control" name="salary" id="salary" placeholder="Enter Salary (per month)" required>
29. </div>
30. </div>
31. <div class="row mt-3">
32. <div class="form-group col-md-12">
33. <label>Skills Required</label>
34. <input type="text" class="form-control" name="skills" id="skills" placeholder="Enter the required skills for the job" required>
35. </div>
36. </div>
38. <div class="row mt-3">
39. <div class="form-group col-md-6">
40. <label>Experience (in years)</label>
41. <input type="text" class="form-control" name="experience" id="experience" placeholder="Experience required (in years)" required>
42. </div>
43. <div class="form-group col-md-6">
44. <label>Company Location</label>
45. <input type="text" class="form-control" name="location" id="location" placeholder="Enter exact location of the Company" required>
46. </div>
47. </div>
48. <div class="row mt-3">
49. <div class="form-group col-md-12">
50. <label>Job Description</label>
51. <textarea name="description" id="description" class="form-control" cols="30" rows="4" placeholder="Description of the exact job" required></textarea>
52. </div>
53. </div>
54. <input type="submit" value="Submit" class="btn mt-3" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">
55. </form>

**Views.py :**

def add\_job(request):

    if not request.user.is\_authenticated:

        return redirect("/company\_login")

    if request.method == "POST":

        title = request.POST['job\_title']

        start\_date = request.POST['start\_date']

        end\_date = request.POST['end\_date']

        salary = request.POST['salary']

        image = request.FILES['logo']

        experience = request.POST['experience']

        location = request.POST['location']

        skills = request.POST['skills']

        description = request.POST['description']

        user = request.user

        company = Company.objects.get(user=user)

        job = Job.objects.create(company=company, title=title,start\_date=start\_date, end\_date=end\_date, salary=salary, image=image, experience=experience, location=location, skills=skills, description=description, creation\_date=date.today())

        job.save()

        alert = True

        return render(request, "add\_job.html", {'alert':alert})

    return render(request, "add\_job.html")

**Code Explanation:**

The Companies then can add new jobs which will be viewed by the applicants. If the applicants are interested in the job, then can send the resume and apply for that job. While adding the jobs the companies needs to provide the details about it.

1. **Entire list of jobs added by the company (job\_list.html):**
2. <div class="container mt-4">
3. <table class="table table-hover" id="example">
4. <thead>
5. <tr>
6. <th>Sr.No</th>
7. <th>Job Title</th>
8. <th>Created On</th>
9. <th>Action</th>
10. <th>Delete</th>
11. </tr>
12. </thead>
13. <tbody>
14. {% for job in jobs %}
15. <tr>
16. <td>{{forloop.counter}}</td>
17. <td>{{job.title}}</td>
18. <td>{{job.creation\_date}}</td>
19. <td><a href="/edit\_job/{{job.id}}/" class="btn"><i class="fa fa-edit"></i></a></td>
20. <td><a href="#" class="btn"><i class="fa fa-trash"></i></a></td>
21. </tr>
22. {% endfor %}
23. </tbody>
24. </table>
25. </div>

**Views.py :**

def job\_list(request):

    if not request.user.is\_authenticated:

        return redirect("/company\_login")

    companies = Company.objects.get(user=request.user)

    jobs = Job.objects.filter(company=companies)

    return render(request, "job\_list.html", {'jobs':jobs})

**Code Explanation:**

After adding the jobs, the companies can view all the jobs added by them. They can delete the job if required or else can edit the job details.

1. **All applicants applied for the job (all\_applicants.html):**
2. <div class="container mt-4">
3. <table class="table table-hover" id="example">
4. <thead>
5. <tr>
6. <th>Sr.No</th>
7. <th>Job Title</th>
8. <th>Applicant</th>
9. <th>Applied On</th>
10. <th>Resume</th>
11. <th>Delete</th>
12. </tr>
13. </thead>
14. <tbody>
15. {% for i in application %}
16. <tr>
17. <td>{{forloop.counter}}</td>
18. <td>{{i.job}}</td>
19. <td>{{i.applicant}}</td>
20. <td>{{i.apply\_date}}</td>
21. <td><a href="{{i.resume.url}}" class="btn"><i class="fa fa-file"></i></a></td>
22. <td><a href="#" class="btn"><i class="fa fa-trash"></i></a></td>
23. </tr>
24. {% endfor %}
25. </tbody>
26. </table>
27. </div>

**Views.py :**

def all\_applicants(request):

    company = Company.objects.get(user=request.user)

    application = Application.objects.filter(company=company)

    return render(request, "all\_applicants.html", {'application':application})

**Code Explanation:**

The company can view all the applicants that have applied for a job to that company. The company can see the all the applicants resume and then select the applicants who fulfills the requirement of the company.

1. **Admin Login Page (admin\_login.html):**
2. <form method="POST">
3. {% csrf\_token %}
4. <div class="container mt-5">
5. <div class="mb-3">
6. <label for="username" class="form-label"><i style="font-weight: bold;">Username</i></label>
7. <input type="text" class="form-control" id="username" name="username" placeholder="Enter Username">
8. </div>
9. <div class="mb-3">
10. <label for="password" class="form-label"><i style="font-weight: bold;">Password</i></label>
11. <input type="password" class="form-control" id="password" name="password" placeholder="Enter Password">
12. </div>
13. <br>
14. <input type="submit" value="Submit" class="btn" style="background-color: #4f868c; color: white; font-size: larger; width: 8rem;">
15. </div>
16. </form>

**Views.py :**

def admin\_login(request):

    if request.method == "POST":

        username = request.POST['username']

        password = request.POST['password']

        user = authenticate(username=username, password=password)

        if user.is\_superuser:

            login(request, user)

            return redirect("/all\_companies")

        else:

            alert = True

            return render(request, "admin\_login.html", {"alert":alert})

    return render(request, "admin\_login.html")

**Code Explanation:**

Admin can login by giving the username and password. No signup option is given for the admin as the admin is a super user and can make the changes or manage the entire portal.

1. **All Companies (all\_companies.html):**
2. <div class="container mt-4">
3. <table class="table table-hover" id="example">
4. <thead>
5. <tr>
6. <th>Sr.No</th>
7. <th>Full Name</th>
8. <th>Email Id</th>
9. <th>Contact</th>
10. <th>Gender</th>
11. <th>Company Name</th>
12. <th>Image</th>
13. <th>Status</th>
14. <th>Change Status</th>
15. <th>Delete</th>
16. </tr>
17. </thead>
18. <tbody>
19. {% for company in companies %}
20. <tr>
21. <td>{{forloop.counter}}</td>
22. <td>{{company.user.get\_full\_name}}</td>
23. <td>{{company.user.email}}</td>
24. <td>{{company.phone}}</td>
25. <td>{{company.gender}}</td>
26. <td>{{company.company\_name}}</td>
27. <td><img src="{{company.image.url}}" class="rounded-circle" width="90px" height="70px"></td>
28. <td>{{company.status}}</td>
29. <td><a href="/change\_status/{{company.id}}/" class="btn btn-secondary">Change Status</a></td>
30. <td><a href="/delete\_company/{{company.user.id}}/" class="btn btn-danger" onclick="return confirm('Are you sure you want to delete this company?')">Delete</a></td>
31. </tr>
32. {% endfor %}
33. </tbody>
34. </table>
35. </div>

**Views.py :**

def all\_companies(request):

    if not request.user.is\_authenticated:

        return redirect("/admin\_login")

    companies = Company.objects.all()

    return render(request, "all\_companies.html", {'companies':companies})

**Code Explanation:**

After the admin logs in, the admin can see all the list of companies that are registered to the portal. The admin can check all the details of the company and then can accept or reject that company on the given details by that company. The admin can also delete a company.

1. **All Applicants (view\_applicants.html):**

<div class="container mt-4">

<table class="table table-hover" id="example">

    <thead>

        <tr>

            <th>Sr.No</th>

            <th>Full Name</th>

            <th>Email Id</th>

            <th>Contact</th>

            <th>Gender</th>

            <th>Image</th>

            <th>Action</th>

        </tr>

    </thead>

    <tbody>

        {% for applicant in applicants %}

        <tr>

            <td>{{forloop.counter}}</td>

            <td>{{applicant.user.get\_full\_name}}</td>

            <td>{{applicant.user.email}}</td>

            <td>{{applicant.phone}}</td>

            <td>{{applicant.gender}}</td>

            <td><img src="{{applicant.image.url}}" class="rounded-circle" width="90px" height="70px"></td>

            <td><a href="/delete\_user/{{applicant.user.id}}/" class="btn btn-danger" onclick="return confirm('Are you sure you want to delete this applicant?')">Delete</a></td>

        </tr>

        {% endfor %}

    </tbody>

</table>

</div>

**Views.py :**

def view\_applicants(request):

    if not request.user.is\_authenticated:

        return redirect("/admin\_login")

    applicants = Applicant.objects.all()

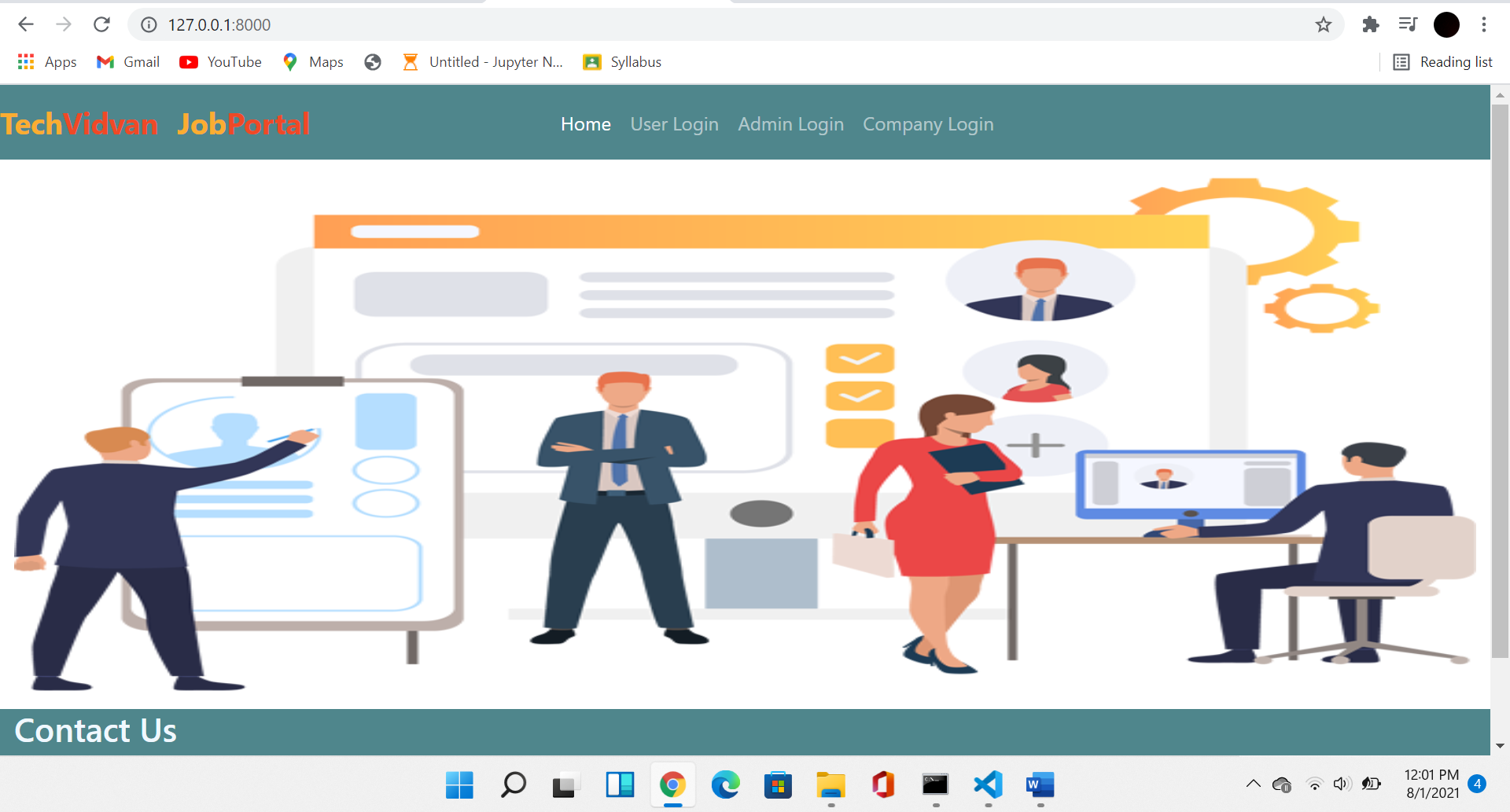
    return render(request, "view\_applicants.html", {'applicants':applicants})

**Code Explanation:**

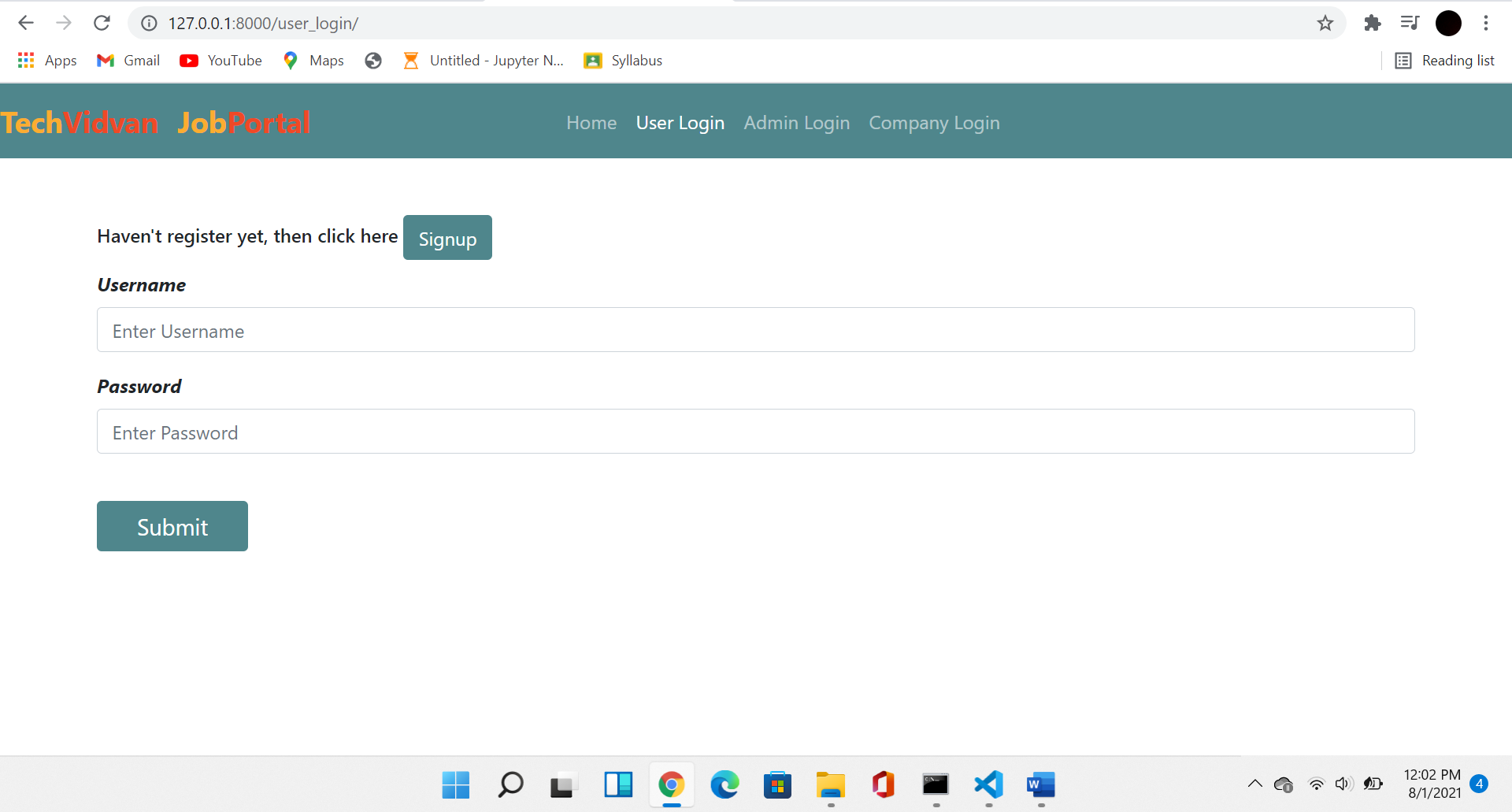
The admin is also able to see the list of all applicants that are registered to the portal. The admin can delete any applicant he/ she wants.

### **Project output:**

Home Page with login options:



Applicant Login:



## Applicant Signup:

## 

## Admin Login:

## 

## Company Login:

## 

## Company Signup:

## 

## Applicant’s Profile:

## 

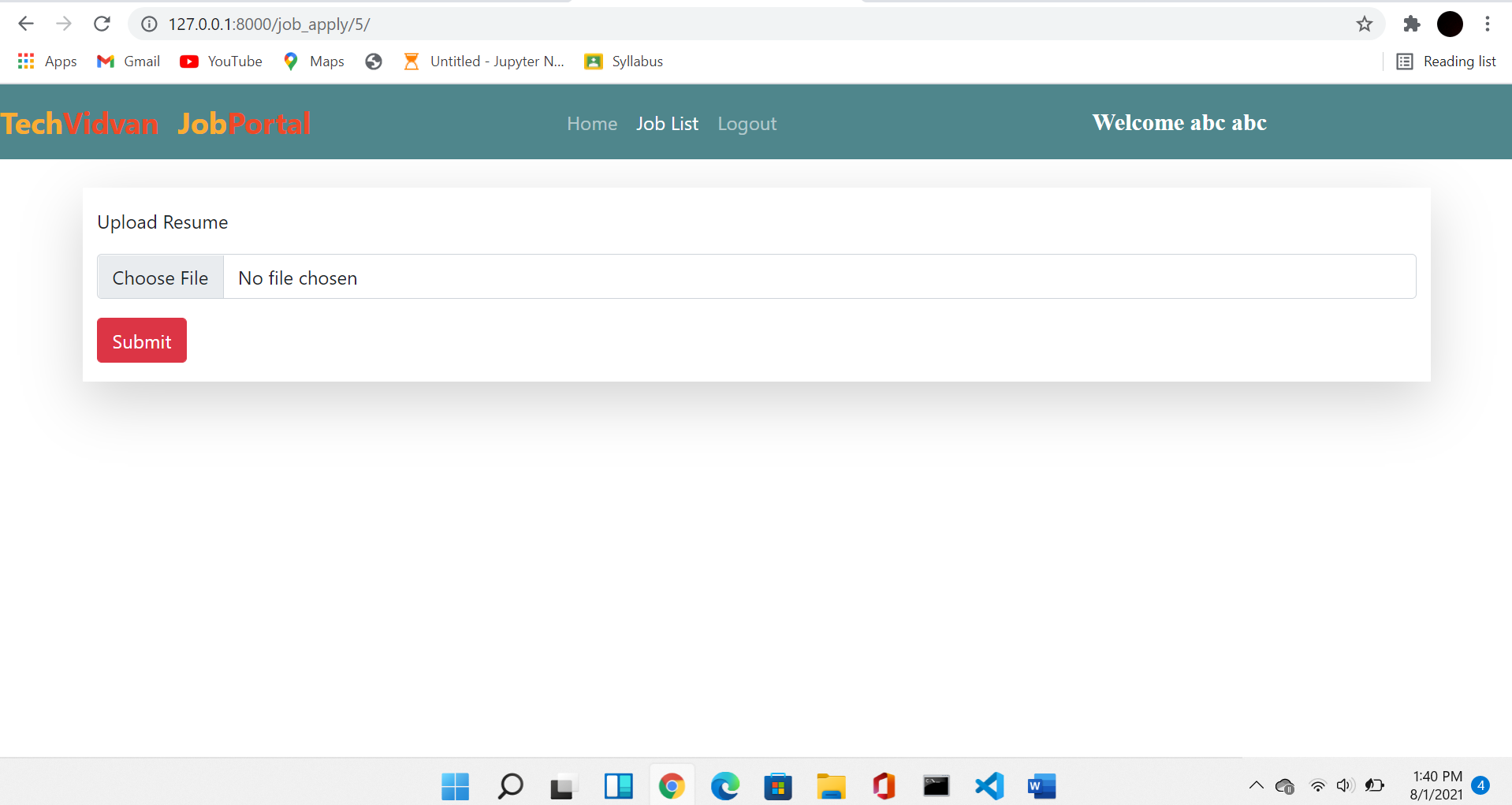
## List of Jobs for applicants to apply:

## 

## Job Details:

## 

## Upload Resume:



## All Companies where admin can accept or reject a company:

## 

## All Applicants where admin can view all the applicants and also delete them:

## 

## Company Profile after login:

## 

## Companies can add jobs after login:

## 

## List of jobs added by the Company:

## 

## All Applicants that have applied, the company can view the applicants resume also:

## 

## **Summary**

So here we have successfully built a job portal using the front-end and back-end skills. I hope you have enjoyed creating this project and have learned a lot more about Django. For practice you can more such projects and keep learning and growing.