



MYSORE UNIVERSITY SCHOOL OF ENGINEERING

Manasagangotri campus, Mysuru-570006
(Approved by AICTE, New Delhi)



UNIVERSITY OF MYSORE

A Assignment(21CD71,Full Stack Development) Report

On

“SECURE JOB APPLICATION FORM USING DJANGO”

Submitted By

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FULL STACK DEVELOPMENT - 21CD71

ASSIGNMENT 01: *SECURE JOB APPLICATION FORM USING DJANGO.*

Question: Implement a Secure Job Application Form using Django where:

- *Applicants can submit their name, email, phone number, resume (PDF only), and a cover letter.*
- *The application form should be implemented using Django Model Forms and should validate:*
 - *The resume file is in PDF format only.*
 - *The phone number contains exactly 10 digits.*
 - *Store all applications in a database and allow the admin to view, shortlist, or reject applications.*
- *Implement CSRF protection for the form submission.*

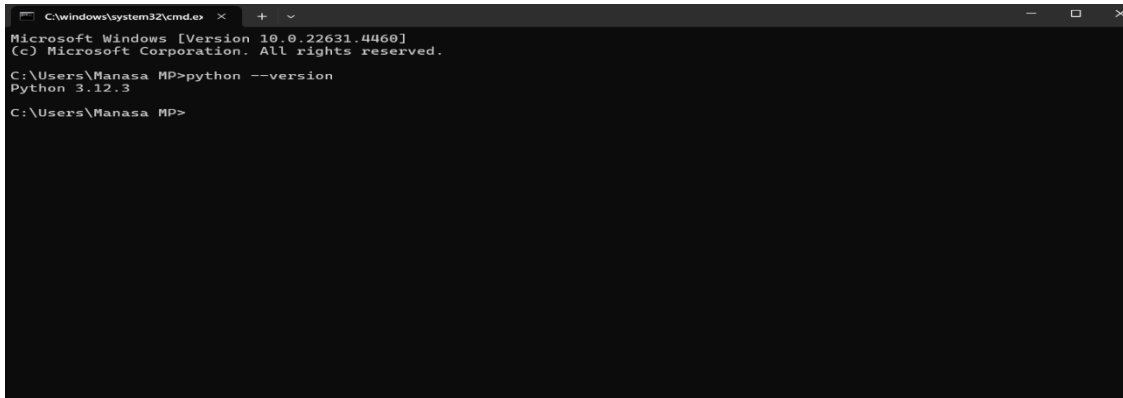
Prerequisites:

- *Operating System: Windows/Linux/MacOS.*
- *Internet connection.*

Steps: 1. Install Python:

- *Download the latest version of Python from the official website.*
- *Run the installer and ensure the option "Add Python to PATH" is checked. This makes Python accessible from any terminal window. Verify installation by opening a terminal and running:*

python --version



```
C:\windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22631.4460]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Manasa MP>python --version
Python 3.12.3

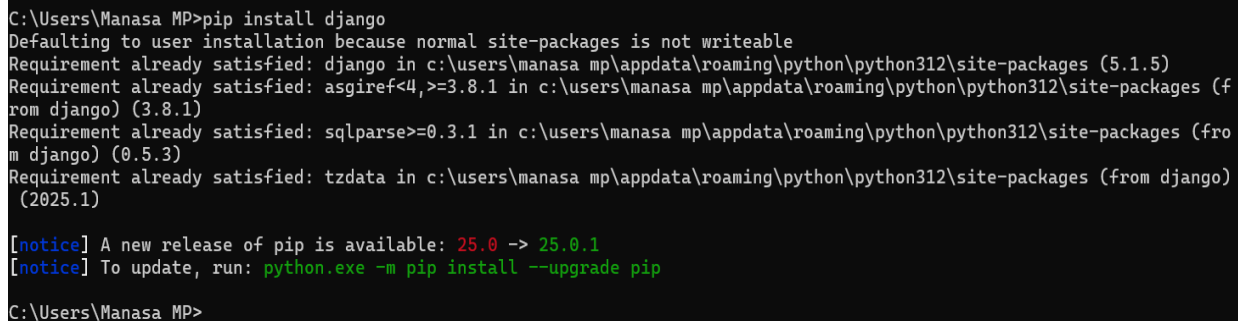
C:\Users\Manasa MP>
```

- *We should see the installed Python version.*

2. Install Django:

- *Open a terminal and install Django using pip (Python's package manager):*

pip install Django

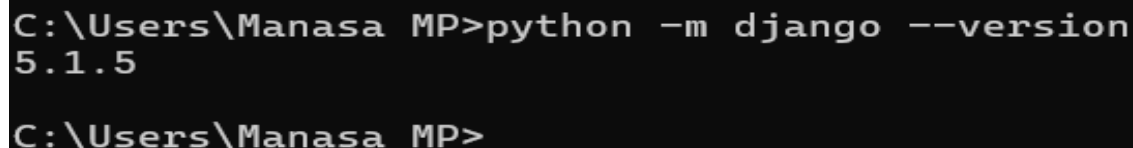


```
C:\Users\Manasa MP>pip install django
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: django in c:\users\manasa mp\appdata\roaming\python\python312\site-packages (5.1.5)
Requirement already satisfied: asgiref<4,>=3.8.1 in c:\users\manasa mp\appdata\roaming\python\python312\site-packages (from django) (3.8.1)
Requirement already satisfied: sqlparse>=0.3.1 in c:\users\manasa mp\appdata\roaming\python\python312\site-packages (from django) (0.5.3)
Requirement already satisfied: tzdata in c:\users\manasa mp\appdata\roaming\python\python312\site-packages (from django) (2025.1)

[notice] A new release of pip is available: 25.0 -> 25.0.1
[notice] To update, run: python.exe -m pip install --upgrade pip

C:\Users\Manasa MP>
```

- *Verify installation: `python -m django --version`*



```
C:\Users\Manasa MP>python -m django --version
5.1.5

C:\Users\Manasa MP>
```

- *This ensures Django has been installed successfully.*

3. Install Visual Studio Code (VS Code):

- *Download VS Code from the official website.*
- *Install the software by following the on-screen instructions.*
- *Once installed, add the Python and Django extensions in VS Code for features like syntax highlighting and debugging support.*

4. Verify All Installations: *Open VS Code, create a new terminal, and check the Python and Django versions using the commands shown above. Ensure everything is correctly set up before proceeding.*

“SECURE JOB APPLICATION FORM USING DJANGO”

Step 01: *Applicants can submit their name, email, phone number, resume (PDF only), and a cover letter.*

Name:

Email:

Phone:

Resume:

Choose File

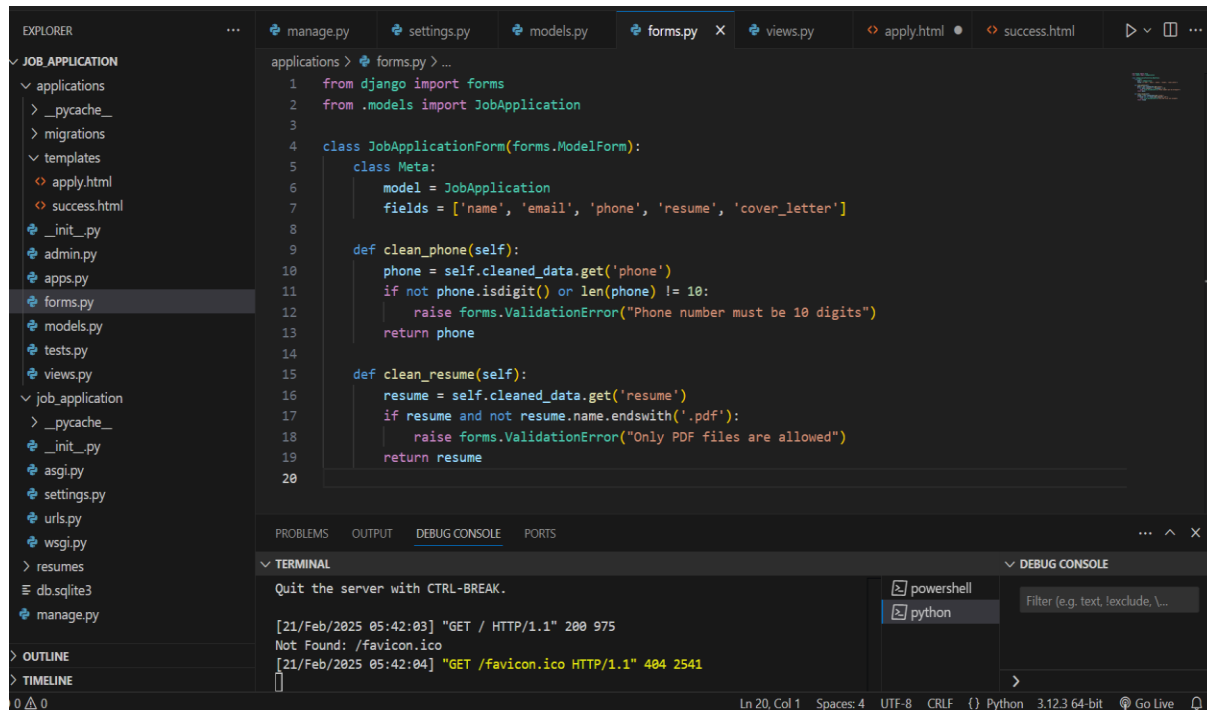
No file chosen

Cover letter:

Apply

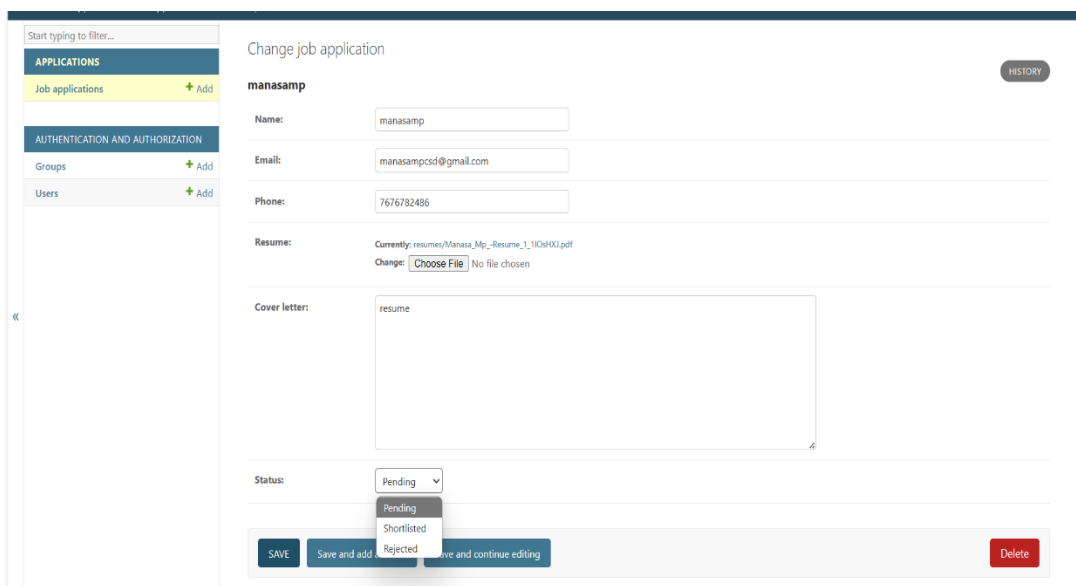
Step 02: The application form should be implemented using Django Model Forms and should validate:

- The resume file is in PDF format only.
- The phone number contains exactly 10 digits.



```
1 from django import forms
2 from .models import JobApplication
3
4 class JobApplicationForm(forms.ModelForm):
5     class Meta:
6         model = JobApplication
7         fields = ['name', 'email', 'phone', 'resume', 'cover_letter']
8
9     def clean_phone(self):
10         phone = self.cleaned_data.get('phone')
11         if not phone.isdigit() or len(phone) != 10:
12             raise forms.ValidationError("Phone number must be 10 digits")
13         return phone
14
15     def clean_resume(self):
16         resume = self.cleaned_data.get('resume')
17         if resume and not resume.name.endswith('.pdf'):
18             raise forms.ValidationError("Only PDF files are allowed")
19         return resume
20
```

Step 03: Store all applications in a database and allow the admin to view, shortlist, or reject applications.



Change job application

manasamp

Name: manasamp

Email: manasampcsd@gmail.com

Phone: 7676782486

Resume: Currently: resume/Manasa_Mp_resume_1_10x100.pdf
Change: [Choose File](#) | No file chosen

Cover letter: resume

Status: Pending

SAVE Save and add Rejected Save and continue editing Delete

Status:

Pending ▼

Pending
Shortlisted
Rejected

SAVE Save and add a new application Save and add a new application

Step 04: Implement CSRF protection for the form submission.

```
settings.py  models.py  forms.py  views.py  apply.html  success.html  urls.py  a  ...
applications > templates > apply.html > ...
1  <form method="POST" enctype="multipart/form-data">
2      {% csrf_token %}
3      {{ form.as_p }}
4      <button type="submit">Apply</button>
5  </form>
6
7  
```