

Create a Registration functionality for the Author/User.

Registration Form Fields

Username - text field

Email - email field

password and confirm password - password field

Validations

Before inserting data into the Model please validate

1. Data from the form field is not empty.
2. Email is in the correct format
3. Password and Confirm Password are same

Create View function -

Create a View Function named as User_register() that will add details in User Model and Author Model using same view function.

Step1 python -m venv venv

Step2 venv\Scripts\activate

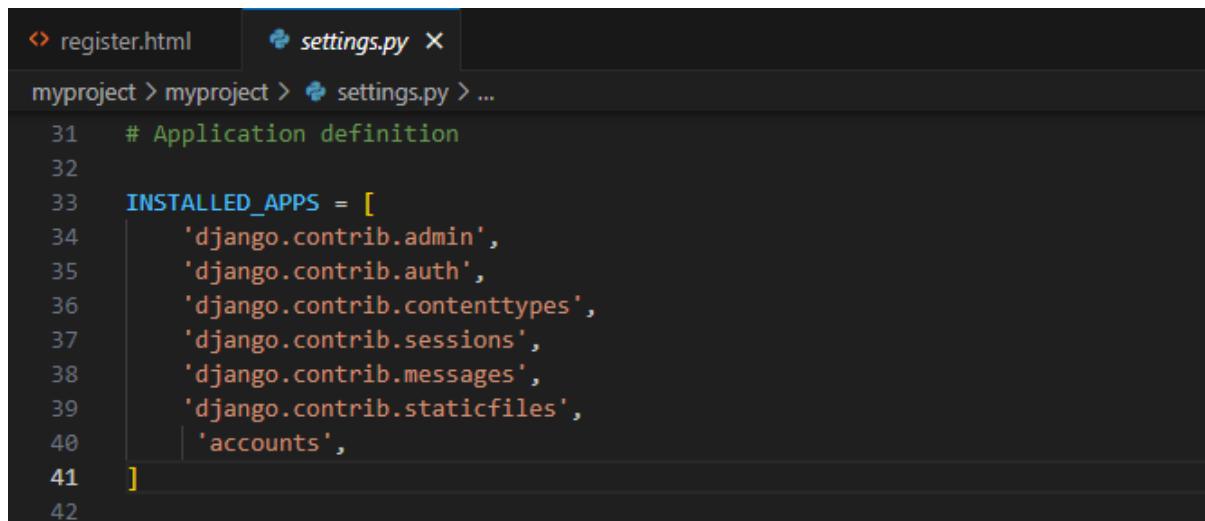
Step3 pip install Django

Step4 django-admin startproject myproject

Step5 cd myproject

Step6 python manage.py startapp accounts

Step7



```
register.html settings.py X
myproject > myproject > settings.py > ...
31 # Application definition
32
33 INSTALLED_APPS = [
34     'django.contrib.admin',
35     'django.contrib.auth',
36     'django.contrib.contenttypes',
37     'django.contrib.sessions',
38     'django.contrib.messages',
39     'django.contrib.staticfiles',
40     'accounts',
41 ]
42
```

Step8

```
# accounts/models.py
from django.db import models
```

```
from django.contrib.auth.models import User

class Author(models.Model):
    user = models.OneToOneField(User, on_delete=models.CASCADE)
    bio = models.TextField(blank=True, null=True)

    def __str__(self):
        return self.user.username
```

Step9

```
python manage.py makemigrations
```

```
python manage.py migrate
```

Step10

```
# accounts/views.py

from django.shortcuts import render
from django.contrib.auth.models import User
from .models import Author
from django.core.validators import validate_email
from django.core.exceptions import ValidationError

def User_register(request):
    if request.method == "POST":
        username = request.POST.get('username').strip()
        email = request.POST.get('email').strip()
        password = request.POST.get('password').strip()
        confirm_password = request.POST.get('confirm_password').strip()

        # --- Validation ---
        if not username or not email or not password or not confirm_password:
            return render(request, 'register.html', {'error': 'All fields are required.'})

        # Validate email format
        try:
            validate_email(email)
        except ValidationError:
            return render(request, 'register.html', {'error': 'Invalid email format.'})

        # Check if passwords match
        if password != confirm_password:
            return render(request, 'register.html', {'error': 'Passwords do not match.'})
```

```

# Check if username or email already exists
if User.objects.filter(username=username).exists():
    return render(request, 'register.html', {'error': 'Username
already exists.'})

if User.objects.filter(email=email).exists():
    return render(request, 'register.html', {'error': 'Email already
registered.'})

# --- Save to User Model ---
user = User.objects.create_user(username=username, email=email,
password=password)

# --- Save to Author Model ---
author = Author.objects.create(user=user)

return render(request, 'register.html', {'success': 'Registration
successful!'})

return render(request, 'register.html')

```

Step11

```

from django.urls import path
from . import views

urlpatterns = [
    path('register/', views.User_register, name='register'),
]

```

Step12

```

"""
URL configuration for myproject project.

The `urlpatterns` list routes URLs to views. For more information please see:
    https://docs.djangoproject.com/en/5.2/topics/http/urls/
Examples:
Function views
    1. Add an import: from my_app import views
    2. Add a URL to urlpatterns: path('', views.home, name='home')
Class-based views
    1. Add an import: from other_app.views import Home
    2. Add a URL to urlpatterns: path('', Home.as_view(), name='home')
Including another URLconf
    1. Import the include() function: from django.urls import include, path

```

```
2. Add a URL to urlpatterns: path('blog/', include('blog.urls'))  
"""  
  
# myproject/urls.py  
  
from django.contrib import admin  
from django.urls import path, include  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('', include('accounts.urls')),  
]  

```

Step13

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
    <meta charset="UTF-8">  
    <title>User Registration</title>  
    <style>  
        body {  
            font-family: Arial, sans-serif;  
            background: linear-gradient(135deg, #74ebd5, #ACB6E5);  
            height: 100vh;  
            margin: 0;  
            display: flex;  
            justify-content: center;  
            align-items: center;  
        }  
  
        .form-container {  
            background-color: white;  
            padding: 30px 40px;  
            border-radius: 12px;  
            box-shadow: 0 4px 12px rgba(0,0,0,0.1);  
            width: 100%;  
            max-width: 400px;  
        }  
  
        .form-container h2 {  
            text-align: center;  
            margin-bottom: 20px;  
            color: #333;  
        }  
  
        .form-container label {  
            display: block;  
        }  
    </style>  
</head>  
<body>  
    <div class="form-container">  
        <h2>User Registration</h2>  
        <form>  
            <label>First Name <input type="text" name="first_name" /></label>  
            <label>Last Name <input type="text" name="last_name" /></label>  
            <label>Email <input type="email" name="email" /></label>  
            <label>Password <input type="password" name="password" /></label>  
            <label>Confirm Password <input type="password" name="confirm_password" /></label>  
            <button type="submit">Register</button>  
        </form>  
    </div>  
</body>  
</html>
```

```
        margin-bottom: 5px;
        font-weight: bold;
        color: #444;
    }

.form-container input[type="text"],
.form-container input[type="email"],
.form-container input[type="password"] {
    width: 100%;
    padding: 10px;
    margin-bottom: 15px;
    border: 1px solid #ccc;
    border-radius: 6px;
}

.form-container input[type="submit"] {
    width: 100%;
    padding: 12px;
    background-color: #4CAF50;
    border: none;
    color: white;
    font-weight: bold;
    border-radius: 6px;
    cursor: pointer;
    transition: background-color 0.3s;
}

.form-container input[type="submit"]:hover {
    background-color: #45a049;
}

.message {
    text-align: center;
    margin-bottom: 15px;
    color: red;
    font-weight: bold;
}

.success {
    color: green;
}
</style>
</head>
<body>

<div class="form-container">
    <h2>Register</h2>
```

```
{% if error %}
    <div class="message">{{ error }}</div>
{% endif %}

{% if success %}
    <div class="message success">{{ success }}</div>
{% endif %}

<form method="POST">
    {% csrf_token %}
    <label>Username</label>
    <input type="text" name="username" placeholder="Enter Username">

    <label>Email</label>
    <input type="email" name="email" placeholder="Enter Email">

    <label>Password</label>
    <input type="password" name="password" placeholder="Enter Password">

    <label>Confirm Password</label>
    <input type="password" name="confirm_password" placeholder="Confirm Password">

    <input type="submit" value="Register">
</form>
</div>

</body>
</html>
```

Step14

python manage.py runserver

The screenshot shows a code editor interface with the following details:

- EXPLORER** sidebar: Shows the project structure under "MYPROJECT". Key files include `__init__.py`, `admin.py`, `apps.py`, `forms.py`, `models.py`, `tests.py`, `urls.py`, and `views.py`. A "register.html" file is selected in the "templates" directory.
- register.html** content (partial):

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <title>User Registration</title>
6      <style>
7          body {
8              font-family: Arial, sans-serif;
9              background: linear-gradient(13deg, #74ebd5, #ACB6E5);
10             height: 100vh;
11             margin: 0;
12             display: flex;
13             justify-content: center;
14             align-items: center;
15         }

```
- TERMINAL** tab: Displays the command line output of running the development server:

```

[06/May/2025 09:53:07] "POST /register/ HTTP/1.1" 200 795
[06/May/2025 09:54:10] "POST /register/ HTTP/1.1" 200 797
[venv] PS C:\Users\aditi\OneDrive\Desktop\myproject> python manage.py runserver
>>>
Watching for file changes with StatReloader
Performing system checks...
System check identified no issues (0 silenced).
May 06, 2025 - 09:56:50
Django version 5.2, using settings 'myproject.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.

```
- PROBLEMS** tab: Shows a warning message: "WARNING: This is a development server. Do not use it in a production setting. Use a production WSGI or ASGI server instead. For more information on production servers see: https://docs.djangoproject.com/en/5.2/howto/deployment/".

Step15

The screenshot shows a web browser window with the URL `127.0.0.1:8000/register/`. The page displays a registration form with the following fields:

- Register**
- Registration successful!**
- Username:** siddhi
- Email:** sid@gmail.com
- Password:** (redacted)
- Confirm Password:** (redacted)
- Register** button

The screenshot shows a web browser window with the URL `127.0.0.1:8000/register/`. The page displays a registration form with the following fields:

- Register**
- Passwords do not match.**
- Username:** Enter Username
- Email:** Enter Email
- Password:** Enter Password
- Confirm Password:** Confirm Password
- Register** button