

Django Feedback System- Step-by-Step Implementation

Step 1: Set Up the Project in VS Code

Install Prerequisites

Ensure that Python and pip are installed.

Install Virtual Environment

```
pip install virtualenv
```

Create a Virtual Environment

```
mkdir feedback_project && cd feedback_project
```

```
python -m venv venv
```

Activate the Virtual Environment

- **Windows:** `venv\Scripts\activate`
- **Mac/Linux:** `source venv/bin/activate`

Install Django and Start the Project

```
pip install django
```

```
django-admin startproject feedback_system .
```

Step 2: Create the Feedback App

Create a Django App

```
python manage.py startapp feedback
```

Register the App in settings.py

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'feedback', # New app  
]
```

Step 3: Define the Feedback Model

Define Model (models.py in feedback app)

Apply Migrations

```
python manage.py makemigrations
```

```
python manage.py migrate
```

Step 4: Create the Feedback Form

Define Form (forms.py in feedback app)

Step 5: Create Views

Define Views (views.py in feedback app)

Step 6: Set Up URLs

Define App URLs (urls.py in feedback app)

Include App URLs in feedback_system/urls.py

Step 7: Create the Template

Create feedback.html in feedback/templates/feedback/

Step 8: Add CSRF Protection

Django includes CSRF protection by default. The {% csrf_token %} in the form ensures security.

Step 9: Add Feedback to Admin Panel

Register Model in admin.py

Create Superuser and Access Admin Panel

python manage.py createsuperuser

Visit /admin/ to manage feedback.

Final Steps

Run the Server

python manage.py runserver

Access the Application

- Visit: <http://127.0.0.1:8000/>
- Visit : <http://127.0.0.1:8000/admin/feedback/feedback/>

IMPLEMENTED CODE

```
feedback_project > feedback_system > settings.py > ...
13 ALLOWED_HOSTS = ['127.0.0.1', 'localhost']
14
15 # APPLICATIONS INSTALLED
16 INSTALLED_APPS = [
17     'django.contrib.admin',
18     'django.contrib.auth',
19     'django.contrib.contenttypes',
20     'django.contrib.sessions',
21     'django.contrib.messages',
22     'django.contrib.staticfiles',
23     'feedback', # Add the feedback app
24 ]
25
26 # MIDDLEWARE
27 MIDDLEWARE = [
28     'django.middleware.security.SecurityMiddleware',
29     'django.contrib.sessions.middleware.SessionMiddleware',
30     'django.middleware.common.CommonMiddleware',
31     'django.middleware.csrf.CsrfViewMiddleware',
32 ]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

zsh - feedback_project

```
[22/Feb/2025 12:46:35] "GET / HTTP/1.1" 200 8305
Not Found: /favicon.ico
[22/Feb/2025 12:46:36] "GET /favicon.ico HTTP/1.1" 404 2467
[22/Feb/2025 12:47:21] "POST / HTTP/1.1" 200 8481
[22/Feb/2025 12:48:33] "POST / HTTP/1.1" 302 0
[22/Feb/2025 12:48:33] "GET / HTTP/1.1" 200 8810
[22/Feb/2025 12:48:55] "GET / HTTP/1.1" 200 8717
[22/Feb/2025 12:48:58] "GET /admin/ HTTP/1.1" 302 0
[22/Feb/2025 12:48:58] "GET /admin/login/?next=/admin/ HTTP/1.1" 200 4160
```

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WEB PAGE

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Previous Feedback

- **harshith:** The web, or World Wide Web, is a global system of interconnected documents and resources accessed via the internet. It enables users to browse websites, share information, and communicate online. The web operates through browsers, HTTP, and hyperlinks, facilitating instant access to multimedia content and online services worldwide.
- **Lohith:** Django is a high-level Python web framework that promotes rapid development and clean, pragmatic design. It follows the Model-View-Template (MVT) architecture and includes built-in features like authentication, ORM, and admin panel. Django emphasizes security, scalability, and reusability, making it ideal for building robust web applications efficiently.

ADMIN PAGE

