MYSORE UNIVERSITY SCHOOL OF ENGINEERING

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

UNIVERSITY OF MYSORE

Full Stack Development(21CD71) Assessment Report On:

"User Feedback System"

Under the guidance :
Mr. Karthik M N
Assistant Professor,
Dept. of Computer Science & Design,
MUSE.

Submitted by:
Lekha Murthy
Reg No : 21SECD14

Introduction:

The User Feedback System is a web-based application that allows users to submit feedback via a structured form.

- The system validates user input, stores the feedback in a database,
- Provides an admin panel for reviewing submissions.
- The implementation ensures security measures such as CSRF protection and input validation.

Technologies Used

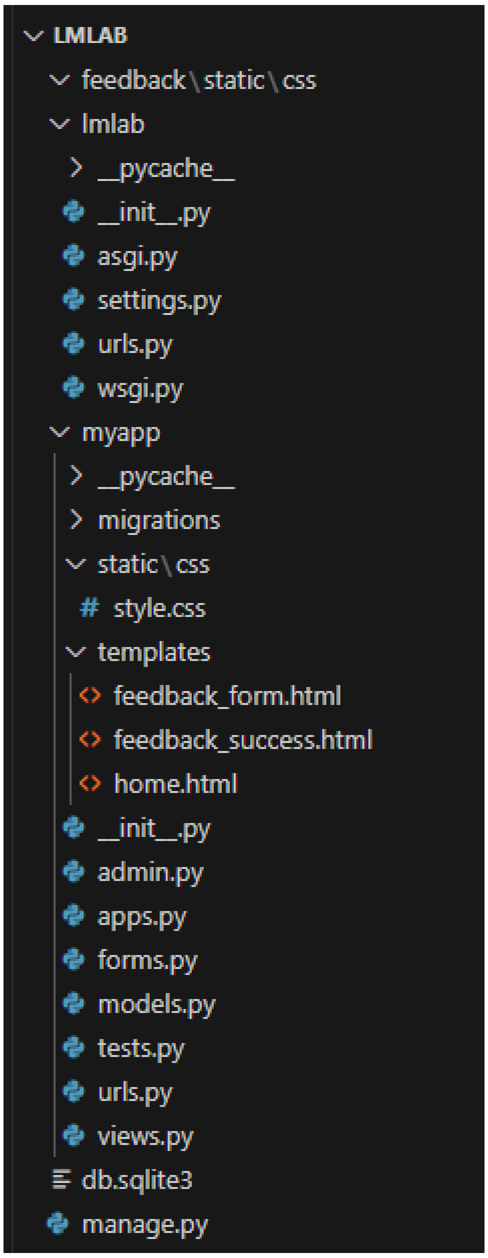
- **Frontend:** HTML, CSS (Classic Light Theme)
- **Backend:** Django 5.1.6 (Python Framework)
- **Database:** SQLite
- **Version Control:** GitHub

Implementation Details

Features

- Users can submit feedback with fields: Name, Email, Subject, Message.
- Custom Validation:
    - ✓ Email must be from @example.com domain.
    - ✓ Message must contain at least 50 characters.
- Database Storage: Feedback is stored in a structured database.
- Admin Panel: Feedback entries are visible in Django Admin for review.
- Security: Uses CSRF protection for form submission.

Project overview:



```
LMLAB
  feedback\static\css
  lmlab
    __pycache__
    __init__.py
    asgi.py
    settings.py
    urls.py
    wsgi.py
  myapp
    __pycache__
    migrations
    static\css
      style.css
    templates
      feedback_form.html
      feedback_success.html
      home.html
    __init__.py
    admin.py
    apps.py
    forms.py
    models.py
    tests.py
    urls.py
    views.py
  db.sqlite3
  manage.py
```

Implementation Process: Detailed Steps

Step 1: Install Django and Create a Virtual Environment

a. Create a virtual environment

```
python -m venv lm
```

b. Activate the virtual environment

On Windows:

```
venv\Scripts\activate
```

On macOS/Linux:

```
source venv/bin/activate
```

c. Install Django

```
pip install Django
```

Step 2: Create a Django Project

Run the following command to create a new Django project:

```
django-admin startproject lmlab

cd lmlab
```

Step 3: Create a Django App

```
python manage.py startapp myapp
```

Step 4: Configure settings.py

Open *lmlab/settings.py* and add *'myapp'* to *INSTALLED_APPS*

```python
INSTALLED_APPS = [
    ...
    'myapp',
]
```

Step 5: Define the Feedback Model

a. In myapp/models.py, define a model for storing user feedback:

```python
from django.db import models

class Feedback(models.Model):
    name = models.CharField(max_length=100)
    email = models.EmailField()
    subject = models.CharField(max_length=200)
    message = models.TextField()
    submitted_at = models.DateTimeField(auto_now_add=True)

    def __str__(self):
        return f'{self.name} - {self.subject}'
```

b. Run migrations to apply the model changes:

```
python manage.py makemigrations
python manage.py migrate
```

Step 6: Register the Model in Django Admin:

To manage feedback entries from the admin panel, register the model in *myapp/admin.py*:

```
from django.contrib import admin
from .models import Feedback

@admin.register(Feedback)
```

Step 7: Create Forms for Feedback Submission:

Create a *forms.py file* inside *myapp* and define a form:

```
from django import forms
from .models import Feedback

class FeedbackForm(forms.ModelForm):
    class Meta:
        model = Feedback
        fields = ['name', 'email', 'subject', 'message']
```

Step 8: Create Views for Handling Feedback:

In *myapp/views.py*, create views to display the feedback form and a success page:

```
from django.shortcuts import render, redirect
from .forms import FeedbackForm
from django.views.decorators.csrf import csrf_protect

@csrf_protect
```

```python
def home_view(request):
    return render(request, 'home.html')
def feedback_view(request):
    if request.method == 'POST':
        form = FeedbackForm(request.POST)
        if form.is_valid():
            form.save()
            return redirect('feedback_success')
    else:
        form = FeedbackForm()
    return render(request, 'feedback_form.html', {'form': form})
def feedback_success(request):
    return render(request, 'feedback_success.html')
```

Step 9: Configure URLs:

a. Create *myapp/urls.py* and define paths:

```python
from django.urls import path
from .views import feedback_view, feedback_success, home_view

urlpatterns = [
    path('', home_view, name='home'),
    path('feedback/', feedback_view, name='feedback_form'),
    path('success/', feedback_success, name='feedback_success'),
]
```

b. Link myapp URLs to the main project in lmlab/urls.py:

```python
from django.contrib import admin
from django.urls import path, include

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('myapp.urls')),
]
```

Step 10: Create HTML Templates:

home.html (Welcome Page):

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Welcome</title>
    <link rel="stylesheet" href="{% static 'css/style.css' %}">
</head>
<body>
    <div class="container">
        <h1>Welcome to the User Feedback System</h1>
        <p style="margin-bottom: 30px;">Submit your feedback and help us 
improve!</p>
        <a href="{% url 'feedback_form' %}">Give Feedback</a>
    </div>
</body>
</html>
```

feedback_form.html (Feedback Form):

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Feedback Form</title>
    <link rel="stylesheet" href="{% static 'css/style.css' %}">
</head>
<body>
    <div class="container">
        <h1>SUBMIT FEEDBACK</h1>
        <form method="post">
```

```
            {% csrf_token %}
            {{ form.as_p }}
            <button type="submit">Submit</button>
        </form>
    </div>
</body>
</html>
```

feedback_success.html (Success Page):

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Feedback Submitted</title>
    <link rel="stylesheet" href="{% static 'css/style.css' %}">
</head>
<body>
    <div class="success-message">
        <h1>Thank You!</h1>
        <p>Your feedback has been submitted successfully.</p>
        <a href="{% url 'feedback_form' %}">Submit Another Feedback</a>
    </div>
</body>
</html>
```

Step 11: Create a Superuser for Admin Panel

```
python manage.py createsuperuser
```

Follow the prompts to enter a username, email, and password.

Step 12: Run the Django Development Server

```
python manage.py runserver
```

Output:

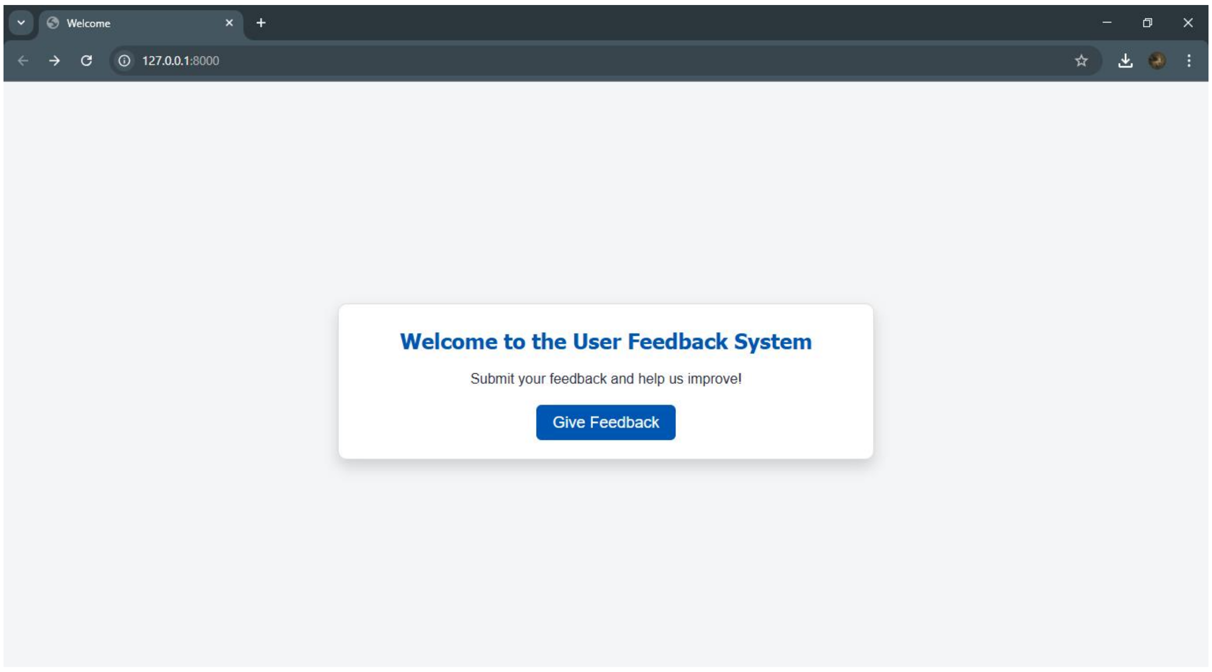
- `http://127.0.0.1:8000/` → Welcome Page
- `http://127.0.0.1:8000/feedback/` → Feedback Form
- `http://127.0.0.1:8000/admin/` → Admin Panel (Login required)

Conclusion:

- Users submitting feedback through a Django ModelForm
- Custom validation for email domains and message length
- Secure CSRF protection in form submission
- Storing feedback in a database
- Displaying feedback in the admin panel

Screenshots:

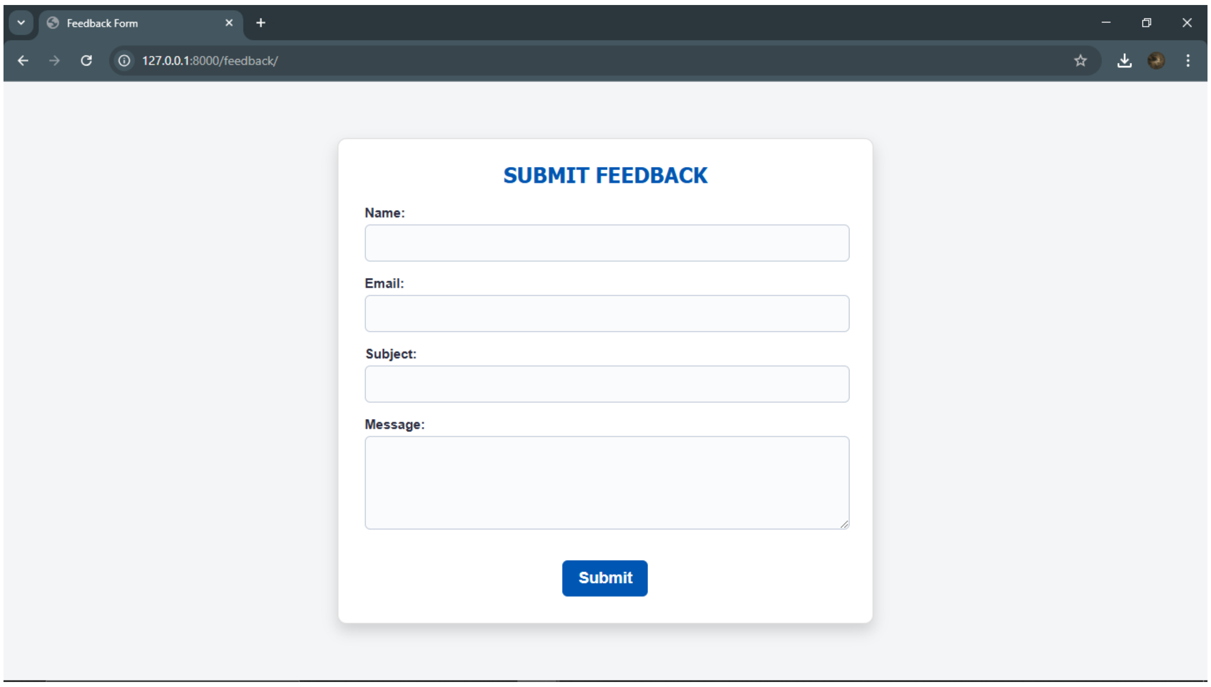
Home Page:



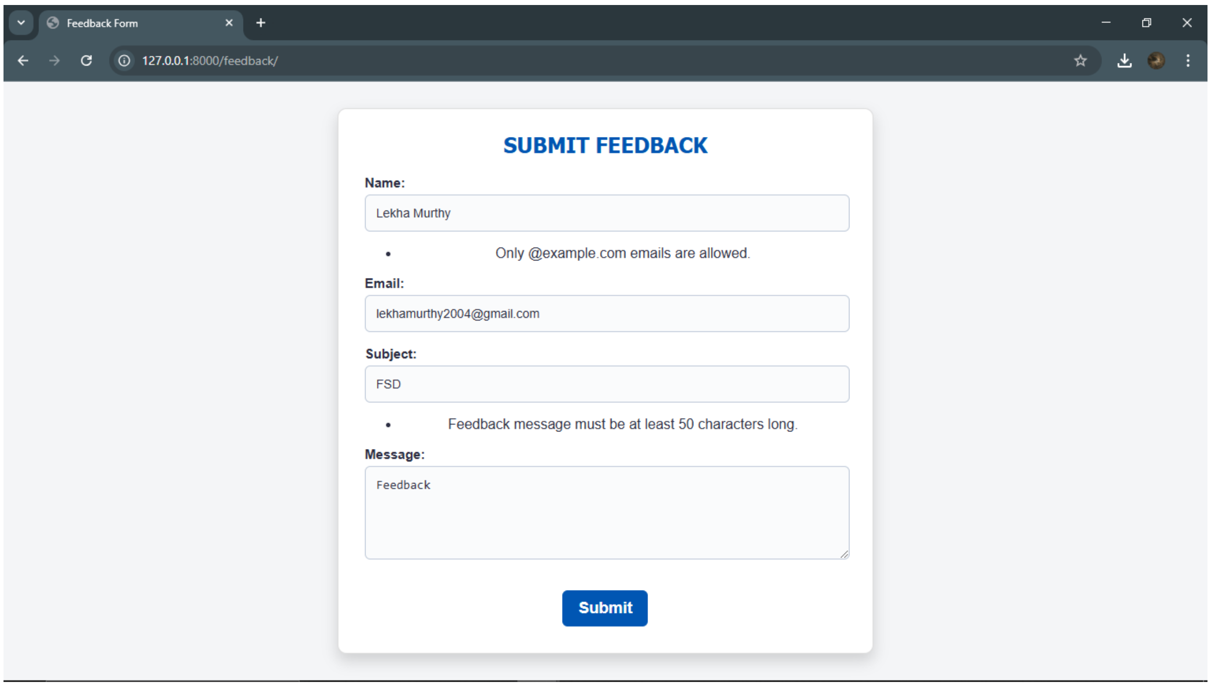
Welcome to the User Feedback System

Submit your feedback and help us improve!

Feedback Form Page:



Invalid Email Error and Message Length Error:



Name: Lekha Murthy

- Only @example.com emails are allowed.

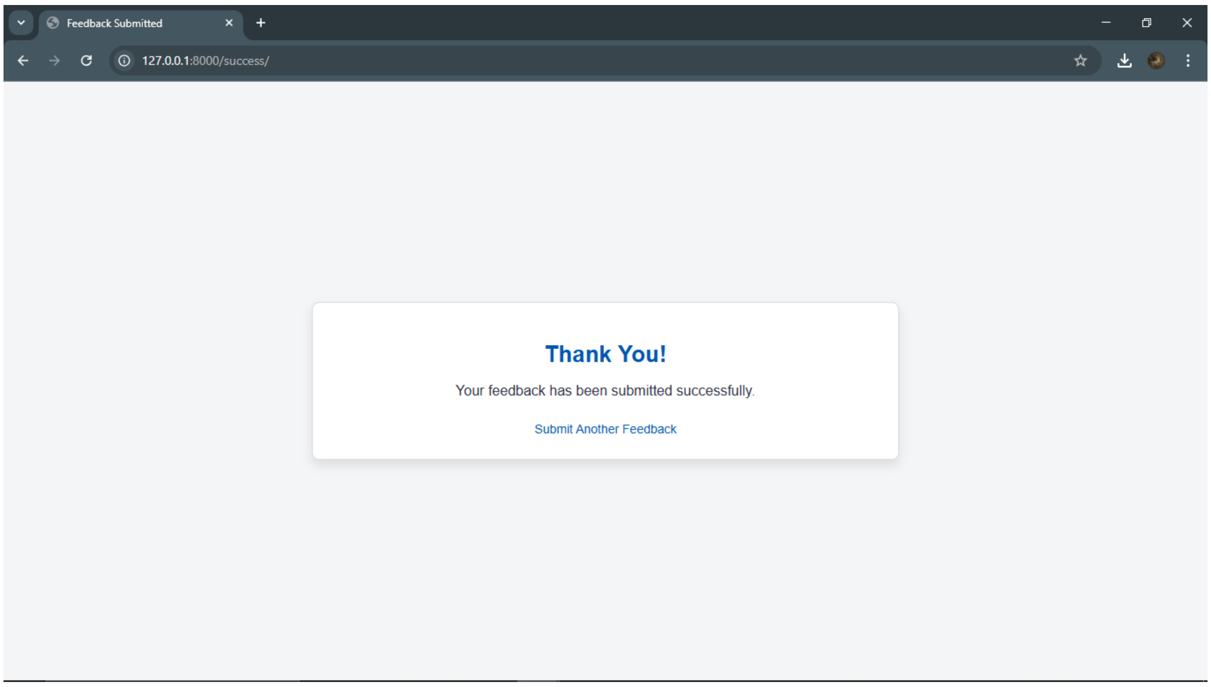
Email: lekhamurthy2004@gmail.com

Subject: FSD

- Feedback message must be at least 50 characters long.

Message: Feedback

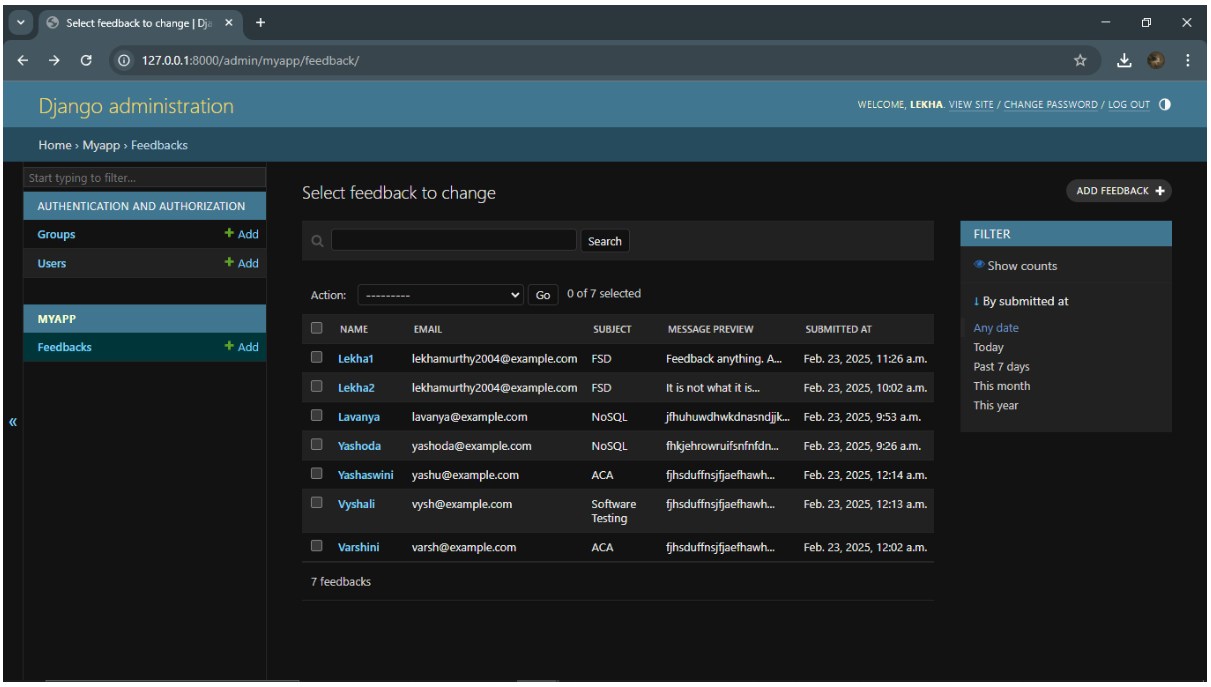
Successful Feedback Submission:



Thank You!

Your feedback has been submitted successfully.

Django Admin Panel – Feedback Entries:



Select feedback to change

Action: --------- Go 0 of 7 selected

NAME	EMAIL	SUBJECT	MESSAGE PREVIEW	SUBMITTED AT
Lekha1	lekhamurthy2004@example.com	FSD	Feedback anything. A...	Feb. 23, 2025, 11:26 a.m.
Lekha2	lekhamurthy2004@example.com	FSD	It is not what it is...	Feb. 23, 2025, 10:02 a.m.
Lavanya	lavanya@example.com	NoSQL	jfhuhuwdhwkdnasndjjk...	Feb. 23, 2025, 9:53 a.m.
Yashoda	yashoda@example.com	NoSQL	fhkjehrowruifsnfnfdn...	Feb. 23, 2025, 9:26 a.m.
Yashaswini	yashu@example.com	ACA	fjhsduffnsjfjaefhawh...	Feb. 23, 2025, 12:14 a.m.
Vyshali	vysh@example.com	Software Testing	fjhsduffnsjfjaefhawh...	Feb. 23, 2025, 12:13 a.m.
Varshini	varsh@example.com	ACA	fjhsduffnsjfjaefhawh...	Feb. 23, 2025, 12:02 a.m.

7 feedbacks