

WEB PROGRAMMING LAB-6

HOME EXERCISES

📅 Date	@February 17, 2026
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Creating the python environment & installing Django

```
cd ~/Desktop/230905010_DevadathanNR/06_LAB
python3 -m venv djangoenv
source djangoenv/bin/activate
(djangoenv) > python3 -m pip install django
```

Question 1

Design a simple web application which will ask the user to input his name and a message, display the two items concatenated in a label, and change the format of the label using radio buttons and check boxes for selection. The user can make the label text bold, underlined or italic and change its color. Include buttons to display the message in the label, clear the text boxes and label and exit.

Create project & App

```
# Create Django project
django-admin startproject label-project
cd label-project
```

```
# Create app
python manage.py startapp labelapp
```

label-project/settings.py

```
import os # added at the top

INSTALLED_APPS = [
    'labelapp',
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
]

STATIC_URL = '/static/'
STATICFILES_DIRS = [BASE_DIR / 'static']
```

Project URLs: label-project/urls.py

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

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

App URLs: `labelapp/urls.py`

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.calculator, name='label'),
]
```

View: `labelapp/views.py`

```
from django.shortcuts import render

def label_view(request):
    context = {}

    if request.method == "POST":
        name = request.POST.get('name')
        message = request.POST.get('message')
        color = request.POST.get('color')

        bold = request.POST.get('bold')
        italic = request.POST.get('italic')
        underline = request.POST.get('underline')

        full_message = f"{name} - {message}"

        style = ""

        if color:
            style += f"color:{color};"

        if bold:
            style += "font-weight:bold;"
```

```

    if italic:
        style += "font-style:italic;"

    if underline:
        style += "text-decoration:underline;"

    context = {
        'full_message': full_message,
        'style': style
    }

    return render(request, 'label.html', context)

```

Create template/ in labelapp/. Inside template/

label.html

```

<!DOCTYPE html>
<html>
<head>
    <title>Label Formatter</title>
</head>
<body>

    <h2>Label Formatting Application</h2>

    <form method="post">
        {% csrf_token %}

        <label>Name:</label>
        <input type="text" name="name" required>
        <br><br>

```

```

<label>Message:</label>
<input type="text" name="message" required>
<br><br>

<!-- Color Selection -->
<label>Text Color:</label>
<input type="radio" name="color" value="red"> Red
<input type="radio" name="color" value="blue"> Blue
<input type="radio" name="color" value="green"> Green
<br><br>

<!-- Formatting Options -->
<label>Formatting:</label>
<input type="checkbox" name="bold"> Bold
<input type="checkbox" name="italic"> Italic
<input type="checkbox" name="underline"> Underline
<br><br>

<!-- Buttons -->
<button type="submit">Display</button>
<button type="reset">Clear</button>
<button type="button" onclick="window.close()">Exit</
button>

</form>

<hr>

<!-- Display Section -->
{% if full_message %}
    <h3 style="{{ style }}">
        {{ full_message }}
    </h3>
{% endif %}

```

```
</body>  
</html>
```

Run

```
python manage.py runserver 8080
```

Output

Label Formatting Application

Name:

Message:

Text Color: ☐ Red ☐ Blue ☐ Green

Formatting: ☐ Bold ☐ Italic ☐ Underline

Devadathan N R - I am a CSE Undergrad
