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SECTION: **CSE C-1**  
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WEEK NO: 6  
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**Lab No. 6 – Developing Web Application using Django**  
**Part II (HomeWork)**

#### Additional

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

#### Urls.py

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

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

#### Urls.py

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

urlpatterns = [
    path("", views.index, name='index'),
]
```

#### Views.py

```
from django.shortcuts import render

def index(request):
```

```

context = {
    'name': '',
    'message': '',
    'bold': False,
    'italic': False,
    'underline': False,
    'color': 'red',
    'show_result': False,
}
if request.method == 'POST':
    action = request.POST.get('action', '')
    if action == 'display':
        context = {
            'name': request.POST.get('name', ''),
            'message': request.POST.get('message', ''),
            'bold': 'bold' in request.POST,
            'italic': 'italic' in request.POST,
            'underline': 'underline' in request.POST,
            'color': request.POST.get('color', 'red'),
            'show_result': True,
        }
    elif action == 'clear':
        # Reset to default values
        context = {
            'name': '',
            'message': '',
            'bold': False,
            'italic': False,
            'underline': False,
            'color': 'red',
            'show_result': False,
        }
return render(request, 'formatter/index.html', context)

```

### Changes in setting.py

```

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

```

```
'formatter',
]
```

## Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Text Formatter</title>
<style>
body {
font-family: Arial, sans-serif;
padding: 20px;
background-color: #f5f5f5;
}
.container {
max-width: 500px;
background: white;
padding: 20px;
border: 1px solid #ccc;
}
.form-row {
margin-bottom: 15px;
}
.form-row label {
display: inline-block;
width: 100px;
}
.form-row input[type="text"] {
width: 200px;
padding: 5px;
}
.checkbox-group, .radio-group {
margin-bottom: 10px;
}
.checkbox-group label, .radio-group label {
margin-right: 15px;
}
textarea {
width: 300px;
height: 80px;
padding: 5px;
}
```

```
.result-label {
margin: 15px 0;
padding: 10px;
min-height: 40px;
}
.buttons {
margin-top: 15px;
}
.buttons button {
padding: 5px 15px;
margin-right: 10px;
cursor: pointer;
}
</style>
</head>
<body>
<div class="container">
<form method="POST">
{%
    csrf_token
}
<div class="form-row">
<label>Enter Name:</label>
<input type="text" name="name" value="{{ name }}">
</div>
<div class="checkbox-group">
<input type="checkbox" name="bold" id="bold" {%
        if bold
    %}checked{%
        endif
    %}>
<label for="bold">BOLD</label>
<input type="checkbox" name="italic" id="italic" {%
        if italic
    %}checked{%
        endif
    %}>
<label for="italic">ITALIC</label>
<input type="checkbox" name="underline" id="underline" {%
        if underline
    %}checked{%
        endif
    %}>
<label for="underline">UNDERLINE</label>
</div>
<div class="radio-group">
<input type="radio" name="color" value="red" id="red" {%
        if color == 'red'
    %}checked{%
        endif
    %}>
<label for="red">RED</label>
<input type="radio" name="color" value="green" id="green" {%
        if color == 'green'
    %}checked{%
        endif
    %}>
<label for="green">GREEN</label>
<input type="radio" name="color" value="pink" id="pink" {%
        if color == 'pink'
    %}checked{%
        endif
    %}>
<label for="pink">PINK</label>
</div>
<div class="form-row">
<label>Enter Message:</label><br>
<textarea name="message">{{ message }}</textarea>
</div>
```

```

<div class="result-label">
{%
  if show_result %
}
<span style="
{%
  if bold %}font-weight: bold;{%
  endif %
}
{%
  if italic %}font-style: italic;{%
  endif %
}
{%
  if underline %}text-decoration: underline;{%
  endif %
}
color: {{ color }};
">
<strong>Name:</strong>{{ name }}<br>
<strong>Message:</strong>{{ message }}
</span>
{%
  else %
}
<span>Label</span>
{%
  endif %
}
</div>
<div class="buttons">
<button type="submit" name="action" value="display">Display</button>
<button type="submit" name="action" value="clear">Clear</button>
<button type="button" onclick="window.close();">Exit</button>
</div>
</form>
</div>
</body>
</html>

```

## Output -

The screenshot shows a web page with the following interface:

- Input Fields:**
  - Text input: "Enter Name: WPL"
  - Checkboxes:  BOLD,  ITALIC,  UNDERLINE
  - Radio buttons:  RED,  GREEN,  PINK
  - Text area: "Enter Message:  
Save the world!!!  
Save the time!!!  
Save me!!!"
- Output Area:**

*Name:WPL  
Message:Save the world!!! Save the time!!! Save me!!!*
- Buttons:**
  - Buttons labeled "Display", "Clear", and "Exit".