

## Lab 6 – Home Assignment

### Developing Web Application using Django

#### Part II

settings.py:

```
INSTALLED_APPS = [  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'q1',  
    'q2',  
    'q3',  
    'a1',  
]
```

urls.py:

```
from django.contrib import admin  
from django.urls import path, include  
  
urlpatterns = [  
    path('admin/', admin.site.urls),  
    path('q1/', include('q1.urls')),  
    path('q2/', include('q2.urls')),  
    path('q3/', include('q3.urls')),  
    path('a1/', include('a1.urls')),  
]
```

A1.

Codes:

views.py:

```
from django.shortcuts import render  
  
def text_formatter(request):
```

```

context = {
    'name': "",
    'message': "",
    'display_text': "",
    'bold': False,
    'italic': False,
    'underline': False,
    'color': '#000000',
}

if request.method == 'POST':
    action = request.POST.get('action')
    if action == 'display':
        name = request.POST.get('name', "")
        message = request.POST.get('message', "")
        context['name'] = name
        context['message'] = message
        context['display_text'] = f"{name} {message}"
        context['bold'] = request.POST.get('bold') == 'on'
        context['italic'] = request.POST.get('italic') == 'on'
        context['underline'] = request.POST.get('underline') == 'on'
        context['color'] = request.POST.get('color', '#000000')
    elif action == 'clear':
        context['name'] = ""
        context['message'] = ""
        context['display_text'] = ""
        context['bold'] = False
        context['italic'] = False
        context['underline'] = False
        context['color'] = '#000000'
    return render(request, 'a1/formatter.html', context)

```

urls.py:

```

from django.urls import path
from . import views

urlpatterns = [
    path("", views.text_formatter, name='formatter'),
]

```

formatter.html:

```

{% load static %}
<!DOCTYPE html>

```

```
<html>
<head>
<title>Text Formatter</title>
<link rel="stylesheet" href="{ % static 'a1/style.css' % }">
</head>
<body>
<div class="container">
<h1>Text Formatter</h1>
<form method="POST">
{ % csrf_token % }
<div class="form-section">
<label>Name:</label>
<input type="text" name="name" value="{{ name }}" placeholder="Enter your name">
<label>Message:</label>
<input type="text" name="message" value="{{ message }}" placeholder="Enter your message">
</div>
<div class="form-section">
<label>Text Color:</label>
<input type="color" name="color" value="{{ color }}">
</div>
<div class="form-section">
<label>Text Style:</label>
<div class="checkbox-group">
<label><input type="checkbox" name="bold" {% if bold % }checked{% endif % }> Bold</label>
<label><input type="checkbox" name="italic" {% if italic % }checked{% endif % }> Italic</label>
<label><input type="checkbox" name="underline" {% if underline % }checked{% endif % }>
Underline</label>
</div>
</div>
<div class="button-group">
<button type="submit" name="action" value="display">Display</button>
<button type="submit" name="action" value="clear">Clear</button>
<a href="javascript:history.back()" class="btn-exit">Exit</a>
</div>
</form>
{ % if display_text % }
<div class="label-box">
<div class="display-label" style="color: {{ color }}; {% if bold % }font-weight: bold;{% endif % } {% if
italic % }font-style: italic;{% endif % } {% if underline % }text-decoration: underline;{% endif % }">
{{ display_text }}
</div>
</div>
{ % endif % }
</div>
</body>
```

```
</html>
```

static -> style.css:

```
* {  
margin: 0;  
padding: 0;  
box-sizing: border-box;  
}  
  
body {  
font-family: Arial, sans-serif;  
background-color: #f0f0f0;  
padding: 20px;  
}  
  
.container {  
max-width: 500px;  
margin: 0 auto;  
background: white;  
padding: 30px;  
border: 1px solid #ddd;  
}  
  
h1 {  
text-align: center;  
color: #333;  
margin-bottom: 30px;  
}  
  
form {  
display: flex;  
flex-direction: column;  
}  
  
.form-section {  
margin-bottom: 20px;  
}  
  
.form-section label {  
display: block;  
font-weight: bold;
```

```
margin-bottom: 5px;
color: #333;
font-size: 14px;
}

input[type="text"],
input[type="color"] {
width: 100%;
padding: 8px;
border: 1px solid #ddd;
font-size: 14px;
margin-bottom: 10px;
}

.checkbox-group {
display: flex;
gap: 20px;
}

.checkbox-group label {
display: flex;
align-items: center;
font-weight: normal;
margin-bottom: 0;
}

.checkbox-group input[type="checkbox"] {
margin-right: 5px;
width: auto;
}

.button-group {
display: flex;
gap: 10px;
margin-top: 20px;
}

button {
flex: 1;
padding: 10px;
background-color: #4CAF50;
color: white;
border: none;
font-size: 14px;
```

```
cursor: pointer;
font-weight: bold;
}

button:hover {
background-color: #45a049;
}

.btn-exit {
flex: 1;
padding: 10px;
background-color: #f44336;
color: white;
text-decoration: none;
text-align: center;
font-weight: bold;
display: flex;
align-items: center;
justify-content: center;
border: none;
cursor: pointer;
}

.btn-exit:hover {
background-color: #da190b;
}

.label-box {
margin-top: 30px;
padding: 20px;
background-color: #f9f9f9;
border: 2px solid #ddd;
}

.display-label {
font-size: 18px;
text-align: center;
padding: 15px;
background-color: white;
border: 1px solid #ddd;
word-wrap: break-word;
}
```

Screenshot:

**Text Formatter**

**Name:**

Hiten

**Message:**

This is lab 6

**Text Color:**

Orange

**Text Style:**

☒ Bold ☐ Italic ☒ Underline

**Display** **Clear** **Exit**

**Hiten This is lab 6**