LAB 6 (Home Assignment)

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Q1) Design a simple web application to provide information about a book. The home page of the application should display the cover page of the book along with three hyperlinks: Metadata, Reviews, Publisher info. Give provision to revert to home page from any other page.

CODE:

q1/settings.py

INSTALLED\_APPS = [

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

    'bookapp',

]

q1/urls.py

from django.contrib import admin

from django.urls import path

from bookapp import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('', views.home, name='home'),

    path('metadata/', views.metadata, name='metadata'),

    path('reviews/', views.reviews, name='reviews'),

    path('publisher/', views.publisher, name='publisher'),

]

bookapp/views.py

from django.shortcuts import render

def home(request):

    return render(request, 'bookapp/home.html')

def metadata(request):

    return render(request, 'bookapp/metadata.html')

def reviews(request):

    return render(request, 'bookapp/reviews.html')

def publisher(request):

    return render(request, 'bookapp/publisher.html')

bookapp/templates/home.html

<!DOCTYPE html>

<html>

<head>

    <title>Book Information</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            text-align: center;

            background-color: #f4f4f4;

            margin: 0;

            padding: 20px;

        }

        h1 {

            color: #333;

        }

        img {

            width: 300px;

            border-radius: 10px;

            box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);

        }

        ul {

            list-style: none;

            padding: 0;

        }

        li {

            margin: 15px 0;

        }

        a {

            text-decoration: none;

            background-color: #007bff;

            color: white;

            padding: 10px 20px;

            border-radius: 5px;

            display: inline-block;

            transition: background 0.3s;

        }

        a:hover {

            background-color: #0056b3;

        }

    </style>

</head>

<body>

    <h1>Book Cover</h1>

    <img src="/static/book\_cover.jpg" alt="Book Cover">

    <ul>

        <li><a href="{% url 'metadata' %}">Metadata</a></li>

        <li><a href="{% url 'reviews' %}">Reviews</a></li>

        <li><a href="{% url 'publisher' %}">Publisher Info</a></li>

    </ul>

</body>

</html>

bookapp/templates/Metadata.html

<!DOCTYPE html>

<html>

<head>

    <title>Metadata</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            text-align: center;

            background-color: #f4f4f4;

            margin: 0;

            padding: 20px;

        }

        h1 {

            color: #333;

        }

        p {

            font-size: 18px;

            color: #555;

        }

        a {

            text-decoration: none;

            background-color: #007bff;

            color: white;

            padding: 10px 20px;

            border-radius: 5px;

            display: inline-block;

            margin-top: 20px;

            transition: background 0.3s;

        }

        a:hover {

            background-color: #0056b3;

        }

    </style>

</head>

<body>

    <h1>Metadata</h1>

    <p>Book details go here...   Lorem ipsum dolor, sit amet consectetur adipisicing elit. Voluptatibus totam veniam consectetur perferendis laudantium officia rerum beatae. Adipisci nostrum corporis, nesciunt dicta veniam doloremque consequatur, quibusdam quod excepturi nam possimus?.</p>

    <a href="{% url 'home' %}">Back to Home</a>

</body>

</html>

bookapp/templates/Publisher.html

<!DOCTYPE html>

<html>

<head>

    <title>Metadata</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            text-align: center;

            background-color: #f4f4f4;

            margin: 0;

            padding: 20px;

        }

        h1 {

            color: #333;

        }

        p {

            font-size: 18px;

            color: #555;

        }

        a {

            text-decoration: none;

            background-color: #007bff;

            color: white;

            padding: 10px 20px;

            border-radius: 5px;

            display: inline-block;

            margin-top: 20px;

            transition: background 0.3s;

        }

        a:hover {

            background-color: #0056b3;

        }

    </style>

</head>

<body>

    <h1>Publisher</h1>

    <p>Lorem, ipsum dolor sit amet consectetur adipisicing elit. Officiis, quibusdam natus, excepturi alias corrupti, quo veniam in itaque consequatur tenetur nemo molestiae ducimus id officia autem suscipit tempore nesciunt totam.

.</p>

    <a href="{% url 'home' %}">Back to Home</a>

</body>

</html>

OUTPUT:

A person walking down a sidewalk

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Q2) 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.

CODE:

q2/settings.py

INSTALLED\_APPS = [

    'django.contrib.admin',

    'django.contrib.auth',

    'django.contrib.contenttypes',

    'django.contrib.sessions',

    'django.contrib.messages',

    'django.contrib.staticfiles',

    'formatterapp',

]

q2/urls.py

from django.contrib import admin

from django.urls import path

from formatterapp import views

urlpatterns = [

    path('admin/', admin.site.urls),

    path('', views.home, name='home'),

]

formatterapp/views.py

from django.shortcuts import render

def home(request):

    formatted\_text = ""

    if request.method == "POST":

        name = request.POST.get("name", "")

        message = request.POST.get("message", "")

        text\_color = request.POST.get("color", "black")

        is\_bold = "bold" if "bold" in request.POST else "normal"

        is\_italic = "italic" if "italic" in request.POST else "normal"

        is\_underlined = "underline" if "underline" in request.POST else "none"

        formatted\_text = f"<span style='color:{text\_color}; font-weight:{is\_bold}; font-style:{is\_italic}; text-decoration:{is\_underlined};'>{name}: {message}</span>"

    return render(request, "formatterapp/home.html", {"formatted\_text": formatted\_text})

formatterapp/templates/home.html

<!DOCTYPE html>

<html>

<head>

    <title>Text Formatter</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            text-align: center;

            background-color: #f4f4f4;

            padding: 20px;

        }

        input, select {

            padding: 8px;

            margin: 5px;

        }

        label {

            font-weight: bold;

        }

        .btn {

            padding: 10px;

            margin: 5px;

            background-color: #007bff;

            color: white;

            border: none;

            cursor: pointer;

        }

        .btn:hover {

            background-color: #0056b3;

        }

    </style>

</head>

<body>

    <h2>Enter Your Name and Message</h2>

    <form method="POST">

        {% csrf\_token %}

        <label for="name">Name:</label>

        <input type="text" name="name" id="name"><br>

        <label for="message">Message:</label>

        <input type="text" name="message" id="message"><br>

        <label>Text Style:</label>

        <input type="checkbox" name="bold"> Bold

        <input type="checkbox" name="italic"> Italic

        <input type="checkbox" name="underline"> Underline <br>

        <label>Text Color:</label>

        <input type="radio" name="color" value="black" checked> Black

        <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>

        <button type="submit" class="btn">Display Message</button>

        <button type="reset" class="btn" onclick="clearFields()">Clear</button>

        <button type="button" class="btn" onclick="window.close()">Exit</button>

    </form>

    <h3>Formatted Message:</h3>

    <div id="output">

        {{ formatted\_text|safe }}

    </div>

    <script>

        function clearFields() {

            document.getElementById("name").value = "";

            document.getElementById("message").value = "";

            document.getElementById("output").innerHTML = "";

        }

    </script>

</body>

</html>

OUTPUT:

A screenshot of a computer

Description automatically generated A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated A screenshot of a computer screen

Description automatically generated