

LAB 6 (Home Assignment)

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Batch: D1

Roll no. 22

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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>
    
    <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:



Metadata

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? Sunt voluptate eum provident, doloribus dicta nihil pariatur facilis commodi cumque id labore modi neque nulla accusamus velit fuga illum. Totam ut neque nisi nesciunt animi repudiandae officii natus quia! Saepe aperiam quam iste! Quam dolore iste eveniet numquam omnis aperiam at fugit voluptatibus fuga ea harum aspernatur sint maxime nihil quibusdam commodi similique, dolores quisquam! Unde tempora fugiat omnis.

Back to Home

Reviews

Lorem ipsum dolor sit amet consectetur, adipisicing elit. Dicta blanditiis praesentium numquam cumque saepe earum consequuntur, voluptatem quasi alias, maxime ab tempora sapiente eveniet? Voluptatibus tempora aliquid impedit sequi. Libero!

[Back to Home](#)

Publisher

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. Qui architecto veritatis dignissimos obcaecati harum voluptatibus, ullam tenetur blanditiis, fugiat assumenda, necessitatibus perspiciatis. Lure quas suscipit, eveniet ipsum at in quam obcaecati fuga veniam saepe, quisquam, ex consectetur dolores. Veniam quisquam suscipit optio rerum, neque, soluta reprehenderit assumenda, est blanditiis dolor nihil consequatur maxime quas totam nam! Voluptatibus fuga, tempora fugiat dignissimos corrupti magnam totam. Dicta adipisci animi optio? Voluptate eveniet asperiores odio sapiente similique voluptatem magni maiores consequatur, alias cumque iusto, tempore illum sed et quia labore ducimus aspernatur qui optio consectetur molestias! Vitae tenetur recusandae nam et.

[Back to Home](#)

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:

Enter Your Name and Message

Name:

Message:

Text Style: ☐ Bold ☐ Italic ☐ Underline

Text Color: ☒ Black ☐ Red ☐ Blue ☐ Green

Formatted Message:

Ayanika: Hello

Enter Your Name and Message

Name:

Message:

Text Style: ☐ Bold ☐ Italic ☐ Underline

Text Color: ☒ Black ☐ Red ☐ Blue ☐ Green

Formatted Message:

Ayanika: See you soon

Enter Your Name and Message

Name:

Message:

Text Style: ☐ Bold ☐ Italic ☐ Underline

Text Color: ☒ Black ☐ Red ☐ Blue ☐ Green

Formatted Message:

Ayanika: Hi

Enter Your Name and Message

Name:

Message:

Text Style: ☐ Bold ☐ Italic ☒ Underline

Text Color: ☒ Black ☐ Red ☐ Blue ☐ Green

Formatted Message:

Ayanika: BYE