Lecture # 12

CSC336 Web Technologies

Credit Hours: 3(2, 1)

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tasks > templates > tasks > add.html

```
{% extends "tasks/layout.html" %}

{% block body %}
    <h1>Add Task</h1>
    <form action="{% url 'tasks:add' %}" method="POST">
        <input type="text" name="task">
        <input type="submit">
    </form>
    <a href="{% url 'tasks:index' %}">View Tasks</a>
{% endblock %}
```

settings.py

```python
MIDDLEWARE = [
    'django.middleware.security.SecurityMiddleware',
    'django.contrib.sessions.middleware.SessionMiddleware',
    'django.middleware.common.CommonMiddleware',
    'django.middleware.csrf.CsrfViewMiddleware',
    'django.contrib.auth.middleware.AuthenticationMiddleware',
    'django.contrib.messages.middleware.MessageMiddleware',
    'django.middleware.clickjacking.XFrameOptionsMiddleware',
]
```

tasks > templates > tasks > add.html

```
{% extends "tasks/layout.html" %}

{% block body %}
    <h1>Add Task</h1>
    <form action="{% url 'tasks:add' %}" method="POST">
        {% csrf_token %}   ⬅
        <input type="text" name="task">
        <input type="submit">
    </form>
    <a href="{% url 'tasks:index' %}">View Tasks</a>
{% endblock %}
```

http://localhost:8000/tasks/add > View page source

```html
<!DOCTYPE html>

<html lang="en">

    <head>

        <title>Tasks</title>

    </head>

    <body>

        <h1>Add Task</h1>

        <form action="/tasks/add" method="POST">

                <input type="hidden" name="csrfmiddlewaretoken"
value="J1Vz0c5cO9eloYj1SywGeGyUcqDGE65mHPmgi6xEY8siWgCtctgu2mxTJVIVKpjh">

                <input type="text" name="task">

                <input type="submit">

        </form>

        <a href="/tasks/">View Tasks</a>

    </body>

</html>
```

```python
from django import forms


class NewTaskForm(forms.Form):
    task = forms.CharField(label="New Task")


# Create your views here.
def add(request):
    return render(request, "tasks/add.html", {
        "form":NewTaskForm()
    })
```

tasks > templates > tasks > add.html

```
{% extends "tasks/layout.html" %}

{% block body %}
    <h1>Add Task</h1>
    <form action="{% url 'tasks:add' %}" method="POST">
        {% csrf_token %}
        {{ form }}  ⬅
        <input type="submit">
    </form>
    <a href="{% url 'tasks:index' %}">View Tasks</a>
{% endblock %}
```

tasks > views.py

```python
from django import forms


class NewTaskForm(forms.Form):

    task = forms.CharField(label="New Task")

    priority = forms.IntegerField(label="Priority", min_value=1, max_value=10)


# Create your views here.

def add(request):

    return render(request, "tasks/add.html", {

        "form":NewTaskForm()

    })
```

tasks > views.py

```python
# Create your views here.
def add(request):
    if request.method == "POST":
        form = NewTaskForm(request.POST)
        if form.is_valid():
            task = form.cleaned_data["task"]
            tasks.append(task)
        else:
            return render(request, "tasks/add.html", {
                "form":form
            })
    return render(request, "tasks/add.html", {
        "form": NewTaskForm()
    })
```

tasks > views.py

```python
class NewTaskForm(forms.Form):
    task = forms.CharField(label="New Task")
    priority = forms.IntegerField(label="Priority", min_value=1, max_value=5)
```

tasks > views.py

```python
class NewTaskForm(forms.Form):
    task = forms.CharField(label="New Task")
```

tasks > views.py

```python
from django.http import HttpResponseRedirect

from django.urls import reverse


def add(request):
    if request.method == "POST":
        form = NewTaskForm(request.POST)
        if form.is_valid():
            task = form.cleaned_data["task"]
            tasks.append(task)
            return HttpResponseRedirect(reverse("tasks:index"))    ⬅

        else:
            return render(request, "tasks/add.html", {
                "form":form
            })
    return render(request, "tasks/add.html", {
        "form": NewTaskForm()
    })
```

tasks > views.py

```python
tasks = []
```

tasks > views.py

```python
# Create your views here.
def index(request):
    if "tasks" not in request.session:
        request.session["tasks"] = []

    return render(request, "tasks/index.html", {
        "tasks":request.session["tasks"]
    })
```

Run migrations in Django Project

➢python manage.py migrate

tasks > templates > tasks > index.html

```
{% extends "tasks/layout.html" %}

{% block body %}
    <h1>Tasks</h1>
    <ul>
        {% for task in session.tasks %}
            <li>{{ task }}</li>
        {% empty %}
            <li>No Tasks.</li>
        {% endfor %}
    </ul>
    <a href="{% url 'tasks:add' %}">Add a New Task</a>
{% endblock %}
```

tasks > views.py

```python
def add(request):

    if request.method== "POST":

        form = NewTaskForm(request.POST)

        if form.is_valid():

            task = form.cleaned_data["task"]

            request.session["tasks"] += [task]    ⟸

            return HttpResponseRedirect(reverse("tasks:index"))

        else:

            return render(request, "tasks/add.html", {

                "form":form

            })

    return render(request, "tasks/add.html", {

        "form":NewTaskForm()

    })
```