

# Lecture # 11

## CSC336 Web Technologies

Credit Hours: 3(2, 1)

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# Start App in Django Project

➤ `python manage.py startapp tasks`

# lab5 > settings.py

```
# Application definition
```

```
INSTALLED_APPS = [  
    'hello',  
    'newyear',  
    'tasks',  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.sessions',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
]
```

# lab5 > urls.py

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

# tasks > urls.py

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

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

# tasks > views.py

```
from django.shortcuts import render
```

```
tasks = ["foo", "bar", "baz"]
```

```
# Create your views here.
```

```
def index(request):
```

```
    return render(request, "tasks/index.html", {
```

```
        "tasks": tasks
```

```
    })
```

# tasks > templates > tasks > index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Tasks</title>
  </head>
  <body>
    <ul>
      <li>item one.</li>
      <li>item two.</li>
      <li>item three.</li>
    </ul>
  </body>
</html>
```

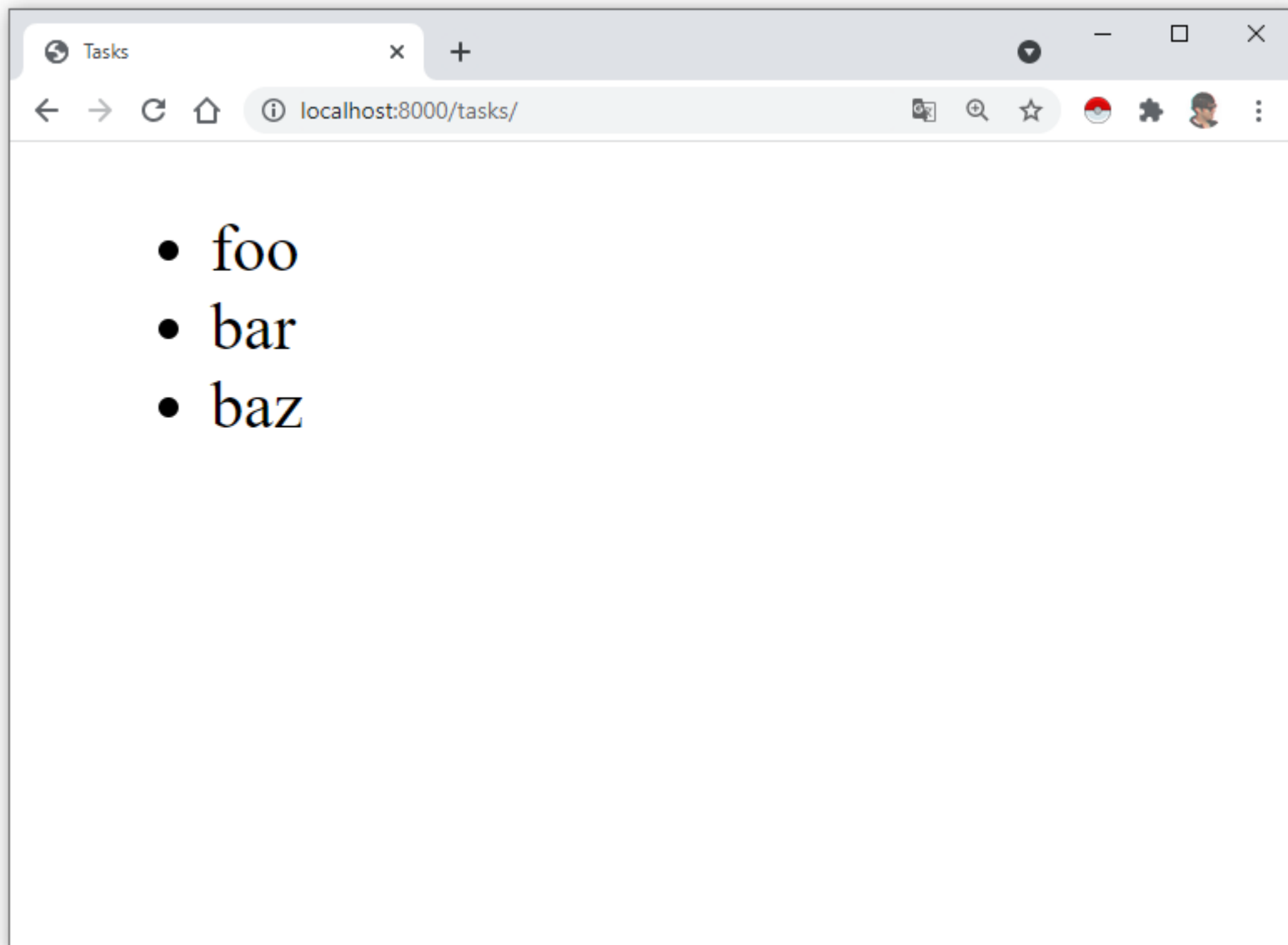
# tasks > templates > tasks > index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Tasks</title>
  </head>
  <body>
    <ul>
      {% for task in tasks %}
        <li>{{ task }}</li>
      {% endfor %}
    </ul>
  </body>
</html>
```



# Start App in Django Project

➤ `python manage.py runserver`



- foo
- bar
- baz

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

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Tasks</title>
  </head>
  <body>
    <ul>
      <li>foo</li>
      <li>bar</li>
      <li>baz</li>
    </ul>
  </body>
</html>
```

# tasks > views.py

```
# Create your views here.
```

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

```
def add(request):  
    return render(request, "tasks/add.html")
```

# tasks > urls.py

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

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

# tasks > templates > tasks > add.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Tasks</title>
  </head>
  <body>
    <h1>Add Task</h1>
    <form>
      <input type="text" name="task">
      <input type="submit">
    </form>
  </body>
</html>
```

Tasks

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# Add Task

Submit

# tasks > templates > tasks > layout.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Tasks</title>
  </head>
  <body>
    {% block body %}

    {% endblock %}
  </body>
</html>
```



# tasks > templates > tasks > index.html

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

```
{% block body %}
```

```
    <h1>Tasks</h1>
```

```
    <ul>
```

```
        {% for task in tasks %}
```

```
            <li>{{ task }}</li>
```

```
        {% endfor %}
```

```
    </ul>
```

```
{% endblock %}
```

# tasks > templates > tasks > add.html

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

```
{% block body %}
```

```
    <h1>Add Task</h1>
```

```
    <form>
```

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

```
        <input type="submit">
```

```
    </form>
```

```
{% endblock %}
```

# tasks > templates > tasks > index.html

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

```
{% block body %}
```

```
    <h1>Tasks</h1>
```

```
    <ul>
```

```
        {% for task in tasks %}
```

```
            <li>{{ task }}</li>
```

```
        {% endfor %}
```

```
    </ul>
```

```
    <a href="{% url 'add' %}">Add a New Task</a>
```

```
{% endblock %}
```

# tasks > templates > tasks > add.html

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

```
{% block body %}
```

```
    <h1>Add Task</h1>
```

```
    <form>
```

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

```
        <input type="submit">
```

```
    </form>
```

```
    <a href="{% url 'index' %}">View Tasks</a>
```

```
{% endblock %}
```

# tasks > urls.py

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

```
app_name = "tasks"
```

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

# tasks > templates > tasks > index.html

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

```
{% block body %}
```

```
  <h1>Tasks</h1>
```

```
  <ul>
```

```
    {% for task in tasks %}
```

```
      <li>{{ task }}</li>
```

```
    {% endfor %}
```

```
  </ul>
```

```
  <a href="{% url 'tasks:add' %}">Add a New Task</a>
```

```
{% endblock %}
```

# tasks > templates > tasks > add.html

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

```
{% block body %}
```

```
    <h1>Add Task</h1>
```

```
    <form>
```

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

```
        <input type="submit">
```

```
    </form>
```

```
    <a href="{% url 'tasks:index' %}">View Tasks</a>
```

```
{% endblock %}
```