

Django Tables & Grids with Bootstrap

This guide will help you:

- ✓ **Create a Django project and app**
 - ✓ **Use Bootstrap for tables & grids**
 - ✓ **Display data in a simple, clean way**
 - ✓ **Keep the code minimal**
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✂ Step 1: Install Django & Bootstrap

✓ 1. Install Django (If not installed)

```
pip install django
```

Verify installation:

```
django-admin --version
```

✓ 2. Create a Django Project & App

```
django-admin startproject myproject
cd myproject
python manage.py startapp myapp
```

This creates:

- myproject/ (Main Project)
- myapp/ (Django App)

✓ 3. Add myapp to settings.py

Edit myproject/settings.py and add 'myapp':

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'myapp', # Add this
]
```

🌐 Step 2: Setup URLs

Edit myproject/urls.py:

```
from django.contrib import admin
from django.urls import path
from myapp import views

urlpatterns = [
    path('admin/', admin.site.urls),
    path("", views.home, name='home'), # Home Page
]
```

🔗 Step 3: Create the View (Controller in MVC)

Edit myapp/views.py:

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

```
# Sample Data
data = [
    {"id": 1, "name": "Alice", "age": 25},
    {"id": 2, "name": "Bob", "age": 30},
    {"id": 3, "name": "Charlie", "age": 22},
]

def home(request):
    return render(request, 'home.html', {'data': data})
```

✔ **This will send a list of people to our template for display.**

■ Step 4: Create an HTML Template with Tables & Grids

Inside myapp/templates/, create a file **home.html**:

```
html
Copy
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Table & Grid in Django</title>
    <!-- Bootstrap CDN -->
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
</head>
<body class="container mt-4">

    <h2 class="text-center">User Table</h2>

    <!-- Bootstrap Table -->
    <table class="table table-bordered table-striped">
        <thead class="table-dark">
            <tr>
                <th>ID</th>
                <th>Name</th>
                <th>Age</th>
            </tr>
        </thead>
        <tbody>
            {% for person in data %}
            <tr>
                <td>{{ person.id }}</td>
                <td>{{ person.name }}</td>
                <td>{{ person.age }}</td>
            </tr>
            {% endfor %}
        </tbody>
    </table>

    <h2 class="text-center mt-5">Bootstrap Grid Example</h2>

    <!-- Bootstrap Grid -->
    <div class="row">
        {% for person in data %}
        <div class="col-md-4">
            <div class="card text-center p-3 mb-3 shadow">
                <h5>{{ person.name }}</h5>
                <p>Age: {{ person.age }}</p>
            </div>
        </div>
        {% endfor %}
    </div>

</body>
</html>
```

🔧 Step 5: Run the Server

```
python manage.py runserver
```

Then visit:
★ <http://127.0.0.1:8000/>

What You Get

- 1. A **Bootstrap-styled table** displaying user data.
- 2. A **Bootstrap grid (cards)** for a modern look.
- 3. **No database needed**—just simple **Python lists** for data.