## Module 4 Cheat Sheet: Consolidate and Deploy Your Django App

Package/ Met

hod Description

**Code Example** 

class MyListView(ListView):
 model = MyModel

template\_name = 'my\_template.ht ml'

Displays a list context\_object\_name = 'object\_list'

ListView: of objects. # default: object\_list

class MyDetailView(DetailView):
 model = MyModel

template\_name = 'my\_template.ht

context\_object\_name = 'object' #

Displays **default: object** 

details of a **pk\_url\_kwarg = 'my\_model\_id**' #

DetailView single object. default: pk

class MyCreateView(CreateView):
 model = MyModel

template\_name = 'my\_template.ht

Displays a ml'

form to create **fields = '\_\_all\_\_' # or specify a list** 

**CreateView** a new object. **of fields** 

class MyUpdateView(UpdateView):
 model = MyModel

template\_name = 'my\_template.ht

ml'

Displays a **fields = '\_\_all\_\_' # or specify a list** 

form to update of fields

an existing **pk\_url\_kwarg = 'my\_model\_id'** #

UpdateView object. default: pk

class MyDeleteView(DeleteView):
 model = MyModel

template\_name = 'my\_template.ht

Displays a ml'

confirmation success\_url = '/success-url/'

DeleteView an object. default: pk

Functionbased view that returns "Hello, World!"

From **def my\_view(request):**Django.http **# Your view logic here** 

Basic View import return HttpResponse("Hello,

Function HttpResponse World!")

Functionbased view to render a template with context.

def my\_template\_view(request):

From **context = {'variable': value}** django.shortcu

Render a ts import return render(request, 'my\_templa

Template render te.html', context)

## Sheet1

Functionbased view to redirect to a specific URL.

From **def my\_redirect\_view(request):** 

django.shortcu

Redirect to a ts import return redirect('url\_name\_or\_path

URL redirect ')

Function-

based view to handle form submission. 

def my\_form\_view(request):

if request.method == 'POST':

# Process the form data here

else:

From # **Display the form** 

Handle a django.shortcu

Form ts import return render(request, 'my\_form\_t

Submission render emplate.html', context)

Function-

based view **def my\_param\_view(request, param** 

that accesses ):

Handle URL URL # Access the 'param' value from

Parameters parameters. the URL

Functionbased view protected with login\_required decorator.

**Protecting** 

Views From

(Restrict django.contrib.

Access) using auth.decorator @login\_required

@login\_requi s import def my\_protected\_view(request):

red login\_required # Your view logic here

Decorator

Add the following link to the <head> section of your base template (usually base.html):

Link to link

include href="https://cdn.jsdelivr.net/npm/b Bootstrap CSS ootstrap@5.3.0/dist/css/bootstrap.mi

**Bootstrap** in the base **n.css**" **rel**="**stylesheet**">

**CSS** template.

Include the Bootstrap JavaScript library at the end of the <body> section to enable certain features (for example, dropdowns, modals):

Script tag to

include <script

Bootstrap Src="https://cdn.jsdelivr.net/npm/bootstrap JavaScript otstrap@5.3.0/dist/js/bootstrap.min.j

JavaScript library. s"></script>

Create visually appealing and responsive web pages without having

**Bootstrap** to write CSS

In your Django settings (settings.py), define the following settings:

STATIC\_URL = '/static/studio/ edx.org-next/' # URL to access static files

Django STATICFILES\_DIRS =

settings for n static files [os.path.join(BASE\_DIR, 'static')] #
Directory to look for static files

Configuration static filesStatic files configuration.

Add 'django.contrib.staticfiles' to your INSTALLED\_APPS in settings.py:

Defines a list **INSTALLED\_APPS** = [

of all the #.

Configuration applications 'django.contrib.staticfiles',

- Installed in stalled in the # ...apps project. ]

```
Α
              configuration Make sure the APP_DIRS setting is
              option used
                            set to True in the TEMPLATES list.
              within
                             This allows Django to look for static
              the TEMPLAT files within the apps' directories.
              ES setting.
              When set
                            TEMPLATES = [
              to TRUE,
                               {
              Django will
                                 'APP_DIRS': True,
              look for
              template files
                                 # ...
Configuration within the app
                               },
App Dirs
              directories.
```

```
k href="{% static
                              'your_app/css/style.css'
                              %}" rel="stylesheet">
                              <script src="{% static</pre>
               Code to style
               the HTML
                               'your_app/js/script.js'
                              %}"></script>
<img src="{% static
               templates and
               provide
Usage - Static interactivity to 'your_app/img/logo.png'
                              %}" alt="Logo">
content
               web pages.
               When
               deploying your
               project, you
               need to collect
               all static files python manage.py collectstatic
Collecting
                              STATIC_ROOT =
               into a single
static files
               location.
                              os.path.join(BASE_DIR, 'staticfiles')
```