



DJANGO

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Creating View

- In Django, views handle the logic for processing user requests and returning appropriate responses. Views are Python functions or classes that are responsible for processing the data and determining what should be displayed to the user.

Steps to create a view in Django:

- Define a Function or Class
- Map URLs to Views

Define a Function or Class

You can create a function-based view or a class-based view.

views.py > ...

function-based view:

```python
from django.http import HttpResponse
def home(request):
    return HttpResponse("<h1>Home Page: INFOMAX COMPUTER ACADEMY</h1>")
def about(request):
    return HttpResponse("<h1>About Us: INFOMAX COMPUTER ACADEMY</h1>")
def courses(request):
    return HttpResponse("<h1>Courses: INFOMAX COMPUTER ACADEMY</h1>")
```

For a class-based view:

```python
# views.py
from django.views import View
from django.http import HttpResponse

class MyView(View):
    def get(self, request):
        return HttpResponse("Hello, this is my view using class-based approach!")
```

Map URLs to Views:

- In your urls.py file, you need to map URLs to your views.

For the function-based view:

urls.py > ...

```python
from django.urls import path
from day1 import views

urlpatterns = [
    path('', views.home),
    path('about', views.about),
    path('courses', views.courses),
]
```

For the class-based view:

```python
# urls.py
from django.urls import path
from .views import MyView

urlpatterns = [
    path('my-view/', MyView.as_view(), name='my-view'),
]
```

Passing Parameter to view

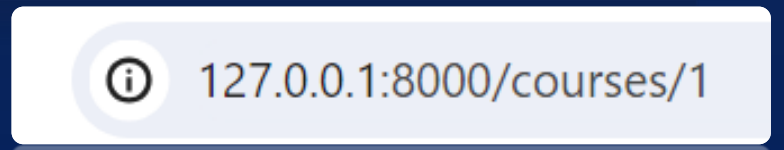
- In Django, you can accept parameters in your views by defining them as parameters in your view functions or methods.

views.py > ...

```python
from django.http import HttpResponse
def courses(request,course_id):
    if course_id==1:
        return HttpResponse("<h1>INFOMAX COMPUTER ACADEMY : Basic Computer Course</h1>")
    elif course_id==2:
        return HttpResponse("<h1>INFOMAX COMPUTER ACADEMY : Computer Diploma Course</h1>")
    elif course_id==3:
        return HttpResponse("<h1>INFOMAX COMPUTER ACADEMY : Computer Programming Course</h1>")
```

urls.py > ...

```python
from django.urls import path
from day1 import views
urlpatterns = [
    path('', views.home),
    path('courses/<int:course_id>', views.courses),
]
```



Passing Parameter to view (Conti..)

- Django support different types of parameters in view which are:

Data Types	Example
<int:parametername>	ex: courses/1
<str:parametername>	ex: courses/java
<slug:parametername>	ex courses/basic-courses-list

Example:

views.py > ...

```python
from django.http import HttpResponse
def courses(request,course_name):
    if course_name=="java":
        return HttpResponse("<h1>JAVA Course : Duration 4 monts</h1>")
    elif course_name=="ccc":
        return HttpResponse("<h1>Course on Computer Concept : Duration 3 months</h1>")
    elif course_name=="python":
        return HttpResponse("<h1>Python Programming : Duration 3 months</h1>")
```

urls.py > ...

```python
from django.urls import path
from day1 import views
urlpatterns = [
    path('',views.home),
    path('courses/<str:course_name>', views.courses),
]
```



Creating Template

- If your view needs to render HTML content, you can create a template. Place the template in a ‘templates’ directory within your app. For example, if your app is named ‘myapp’, create a ‘templates/myapp’ directory.
- Modify your view to render the template:

```
# views.py
from django.shortcuts import render

def my_view(request):
    return render(request, 'myapp/my_template.html', {'data': 'Hello from the view!'})
```

Creating Template (Cont..)

- URLs and Views Connection:
- Ensure that your project's main urls.py file includes the URLs from your app. For example:

```
# project/urls.py
from django.contrib import admin
from django.urls import include, path

urlpatterns = [
    path('admin/', admin.site.urls),
    path('myapp/', include('myapp.urls')),
]
```

- Now, when you visit the corresponding URL (e.g., http://yourdomain.com/myapp/my-view/), Django will invoke the specified view and return the response.

THANK YOU

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