Multiple Applications in a single project

Learn by example

• One website (or project) may have multiple applications. We are going to see an example project which contains two applications with multiple views.

Example illustrated from the scratch

- Steps to perform
 - Start project
 - Start application
 - Add app in project's setting.py
 - Define view functions
 - Define url patterns
 - Run Server
 - Send Requests
- Let's do all the above steps one by one.

Start Project

• Django-admin startproject firstproject

Create Application

- Python manage.py startapp testapp
- Python manage.py startapp exam

Add App in settings.py

- 'testapp'
- 'Exam'

```
Project
                                                                        settings.py
projects
                                   ALLOWED_HOSTS = []
firstproject
   exam
    > iii _pycache_
    > iii migrations
      init_.py
      admin.py
                                   INSTALLED_APPS = [
      apps.py
                                        'testapp',
      models.py
      tests.py
                                        'django.contrib.admin',
      views.py
                                        'django.contrib.auth',
   i firstproject
                                        'django.contrib.contenttypes',
    > iii _pycache_
                                        'django.contrib.sessions',
      init_.py
                                        'django.contrib.messages',
      settings.py
                                        'django.contrib.staticfiles',
      urls.py
      wsgi.py
    testapp
                                   MIDDLEWARE = [
     > 🛅 __pycache_
                                        'diango.middleware.security.SecurityMiddleware
```

Define View Function

- Define three functions in views.py of testapp
 - showContact() //email, address, mobile,etc
 - about() //About website
 - greeting() //for Landing Page
- Define two functions in views.py of exam app
 - showTest()
 - showResult()

Views.py of testapp

```
from django.http import HttpResponse
```

```
def greeting(request):
    s="<h1>Hello and Welcome to first View of testapp</h1>This is landing page"
    return HttpResponse(s)

def showContact(request):
    s="<h1>Contact Page</h1>"
    s+="Website: mysirg.com"
```

```
s+="Mobile: 9009009001"
s+="Email: something@gmail.com"
return HttpResponse(s)

def about(request):
    s="<h1>This is an about page</h1>"
    return HttpResponse(s)
```

Views.py of exam

```
from django.http import HttpResponse

def showTest(request):
    s="<h1>This is show Test Page</h1>"
    return HttpResponse(s)

def showResult(request):
    s="<h1>This is show Result Page</h1>"
    return HttpResponse(s)
```

Define url patterns

- url for about
- url for showContact
- url for greeting (Landing page)
- url for showTest
- url for showResult
- Do not forget to write import statements for views
- · Pay attention to name collision issue during import in video
- How to resolve the name collision issue?
 - Use as keyword

```
from testapp import views as testapp_view from exam import views as exam_view
```

- url for about
 - path('about',testapp_views.about)
- url for showContact

Python for Web using Django

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- path('contact',testapp_views.showContact)
- url for greeting (Landing page)
 - url('^\$',testapp_views.greeting)
- url for showTest
 - path('test',exam_views.showTest)
- url for showResult
 - path('result',exam_views.showResult)

Run server

python manage.py runserver

Send Requests

- localhost:8000
- localhost:8000/contact
- localhost:8000/about
- localhost:8000/test
- localhost:8000/result