Create A New App

🕐 Created	@October 6, 2023 10:59 PM
☰ Made By	Mariam Tamer

1) Create a new App

-First : write the command in terminal

-Second : add the installed app in settings.py

-Third : create a new <u>url.py</u> (another one apart from the project's) in your app folder

-Fourth : Link your project <u>urls.py</u> to your app urls.py

-Fifth : add your functions in views.py and import them in urls.py

First :

In your VSC terminal, type :

python3 <u>manage.py</u> startapp app_name

FOR EX mine is : **python3 <u>manage.py</u> startapp pages**

(and remember that for **windows** it's **python not python3**)

you'll realize a new folder called app is created with the following files : <u>**init**.py</u> - <u>admin.py</u> - <u>adds.py</u> - <u>tests.py</u> - <u>views.py</u> and we've discussed what all of them does in the previous file.

Second :

in your **settings.py,** add the app.

Let's say my app name is pages ,

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'pages.apps.PagesConfig',
]
```

-Where did this come from ? go to your pages app, you'll find a file called **apps.py** and in there' you'll find a **class : class PagesConfig** …

-Also make sure to put on a **comma ','** after every line

Third :

 Create a new **urls.py i**n your Pages app (different from the one in your projects folder)

Fourth :

To **link** the **urls.py of your app to the urls.py of your projec**t, go to your **urls.py in project** and you'll find this :

```
1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))
"""
from django.contrib import admin
from django.urls import path

urlpatterns = [
```

```
        path('admin/', admin.site.urls),
    ]
```

It's already explaining what you should do. Import the include from django.urls and add the path of your app down there like this :

```
1. Import the include() function: from django.urls import include, path
    2. Add a URL to urlpatterns:  path('blog/', include('blog.urls'))
"""
from django.contrib import admin
from django.urls import path, include

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

-I wrote **2 empty quotaions : ' '** because I want my app path pages to be the **default** when I open the server, but if I didn't want it to be the default, I've would written smth like : **'/pages'** instead.

-Also make sure to put on a **comma ','** after every line

Fifth :

-Now go to your <u>views.py</u> in your app

-To create a function there and let it be displayed on the server, you must send a request to the server, and the server replies with a response.

-To do so,

1. import HttpResponse from django.urls

2. create your index function that'll send a request

```
from django.shortcuts import render
from django.http import HttpResponse


# Create your views here.


def index(request):
    return HttpResponse("Hello from HttpResponse")
```

3. import that function in your app's <u>urls.py</u> by :

- importing it from views

- defining it in the urlpattern ..

- it's syntax is :

   urlpatterns = [

   path('name of page after slash' , path to function , func name),

   ]

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


urlpatterns = [
    path('', views.index, name='index'),

]
```

You do so with every page/function you create …

for ex :

-in views.py :

```
from django.shortcuts import render
from django.http import HttpResponse
```

```
# Create your views here.

def index(request):
    return HttpResponse("Hello from HttpResponse")


def about(request):
    return HttpResponse(" About Page ")
```

in <u>urls.py</u> :

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


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

Diff between project <u>urls.py</u> and app urls.py

-in my **project urls.py,** if I write the path as **'pages'** :

path('pages' , include('pages.urls'))

-this means that my **whole project domain** is at : **127.0.0.1:8000<u>/pages</u>** ,

but if I go to **127.0.0.1:8000 only without the /pages** , it'll give me an **error** bc it's not the default domain.

-and now in my **app urls.py**, if I write the path as **'index'** :

path('index' , views.index, name='index'),

-this means I can find it at : **127.0.0.1/pages/index**

-but since I chose to make my **project** <u>**urls.py**</u> domain at **empty quotations ' '** ,
it means my **whole project domain** is found at : **127.0.0.1:8000**

-and since I chose my **index in my app** <u>**urls.py**</u> to be **empty quotations as well ' '** ,
it means I can find it in the **same domain** at : **127.0.0.1:8000/**