URL: Uniform Resource Locator

You know what a URL is. but how to make a URL in django? let's learn that along with views!

Views

View is a logic that is excecuted when each URL is called. A set of functions and classes!

To create a view, make an app first (and don't forget to add it in settings.py) and then navigate to views.py file. (*Nerd out* about the import line). Add this line to the file:

```
from django.http import HttpResponse

def index(request): # or any name you want
    return HttpResponse("Hello, World!")
```

request parameter is what the client side sends to the URL / which django will recieve and feed into index () function.

Now it's time to introduce the url to the app and therefore the django himslef! make a urls.py file in the app directory and add this code inside it.

```
from django.urls import path
from . import views # the views file in the same app directory.

urlpatterns = [
    path('sunday', views.index) # the name of the function you made in views.
]
```

Unfortunately the work isn't done yet, since we used an app (and not the main app) to make a view and a url, we need to add this url to the main app urls.py too! Navigate to main app directory and open urls.py. update urlpatterns to include the newly made url.

```
from django.urls import path, include # include helps add all urls
from an external app to the main app with a single line of code.
from django.contrib import admin

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

In the line path('url_test', include('url_test.urls')), this first url_test/ maked a new url like: localhost:8000/url_test/. And the second one referes to what you called your external app, they CAN be different indeed!

You can also add a path like this: path('', include('url_test.urls')) which directly bonds root url to external app urls.

It is pretty obvious that you need to add a root URL for the main domain. to do that, you must make a views.py file in the main app directory and make the desired function for the main page! and then update main app urls to this:

```
from . import views

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

Conclusion

Basically, the URL system in django is more like a tree. The root of the tree lies in the main app directory urls.py. Main branches of this tree would be each external app. The leaves so to speak would be the Views!