

STEP TO CREATE A NEW PROJECT WITH DJANGO

Creating a project

Example Create a project with django

In the terminal type this code

```
$ mkproject mapatimor  
$ pip install django  
$ django-admin startproject mapatimor  
$ cd mapatimor
```

Let's look at what **startproject** created:

```
$ ls  
mapatimor manage.py
```

Let's verify your Django project works. Change into the outer **mapatimor** directory, if you haven't already, and run the following commands:

```
$ python manage.py runserver
```

You'll see the following output on the command line:

```
Performing system checks...
```

```
System check identified no issues (0 silenced).
```

```
You have unapplied migrations; your app may not work properly until they are  
applied. Run 'python manage.py migrate' to apply them.
```

```
April 08, 2017 - 15:50:53 Django version 1.10, using settings 'mysite.settings'  
Starting development server at http://127.0.0.1:8000/ Quit the server with  
CONTROL-C.
```

Creating app

Your apps can live anywhere on your Python path. In this tutorial, we'll create our **map** app right next to your **manage.py** file so that it can be imported as its own top-level module, rather than a submodule of **mapatimor**.

To create your app, make sure you're in the same directory as **manage.py** and type this command:

```
$ python manage.py startapp mapa
```

hat'll create a directory **mapa**, which is laid out like this:

mapa/

```
|-----__init__.py
|-----admin.py
|-----apps.py
|-----migrations/
|     |-----__init__.py
|-----models.py
|-----tests.py
|-----views.py
```

This directory structure will house the **mapa** application.

In the directory **mapatimor/mapatimor/settings.py**, edit this file and import the **appmapa** to the **INSTALLED_APPS** file include the following code:

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

And then open the terminal run this following migration:

```
$ python manage.py migrate
```

You'll see the following output on the command line:

```
Operations to perform:
  Apply all migrations: admin, auth, contenttypes, sessions
Running migrations:
  Applying contenttypes.0001_initial... OK
  Applying auth.0001_initial... OK
  Applying admin.0001_initial... OK
  Applying admin.0002_logentry_remove_auto_add... OK
  Applying contenttypes.0002_remove_content_type_name... OK
```

```
Applying auth.0002_alter_permission_name_max_length... OK
Applying auth.0003_alter_user_email_max_length... OK
Applying auth.0004_alter_user_username_opts... OK
Applying auth.0005_alter_user_last_login_null... OK
Applying auth.0006_require_contenttypes_0002... OK
Applying auth.0007_alter_validators_add_error_messages... OK
Applying auth.0008_alter_user_username_max_length... OK
Applying sessions.0001_initial... OK
```

Write your first view

Let's write the first view. Open the file **mapa/views.py** and put the following Python code in it:

mapa/views.py

```
from django.views.generic import TemplateView
class Mapa(TemplateView):
    template_name = "mapa/index.html"
```

This is the simplest view possible in Django. To call the view, we need to map it to a URL - and for this we need a URLconf.

Write your urls

To create a URLconf in the **mapa** directory, create a file called **urls.py**. In the **mapa/urls.py** file include the following code:

mapa/urls.py

```
from django.conf.urls import url
from mapa import views

urlpatterns = [
    url(r'^$', views.Mapa.as_view(), name='mapa')
]
```

Your app directory should now look like:

mapa/

```
|-----__init__.py
|-----admin.py
|-----apps.py
|-----migrations/
|         |-----__init__.py
|-----models.py
|-----tests.py
|-----urls.py
|-----views.py
```

The next step is to point the root URLconf at the **mapa.urls** module.

In **mapatimor/urls.py**, add an import for **django.conf.urls.include** and insert an **include()** in the **urlpatterns** list, so you have:

mapatimor/urls.py

```
"""mapatimor URL Configuration
```

```
The urlpatterns list routes URLs to views. For more information please see:
https://docs.djangoproject.com/en/1.11/topics/http/urls/
```

```
Examples:
```

```
Function views
```

1. Add an import: from my_app import views
2. Add a URL to urlpatterns: url(r'^\$', views.home, name='home')

```
Class-based views
```

1. Add an import: from other_app.views import Home
2. Add a URL to urlpatterns: url(r'^\$', Home.as_view(), name='home')

```
Including another URLconf
```

1. Import the include() function: from django.conf.urls import url, include
2. Add a URL to urlpatterns: url(r'^blog/', include('blog.urls'))

```
"""
```

```
from django.conf.urls import include, url
from django.contrib import admin
```

```
urlpatterns = [
```

```
url(r'^admin/', admin.site.urls),
url(r'', include('mapa.urls')),
```

```
]
```

Create template

Inside the directory **mapa**, create a new directory **templates**, inside directory **template**, create a new directory name **mapa**, and inside directory **mapa** create a new file **index.html**.

mapa/templates/mapa/index.html

```
<!DOCTYPE html>
<html>
    <head>
        <title> Mapa Timor </title>
    </head>
    <body>
        MAPA TIMOR LESTE
    </body>
</html>
```

Verify Django Project

Let's verify your Django project works, and run the following commands:

```
$ python manage.py runserver
```

You'll see the following output on the command line:

```
Performing system checks...
```

```
System check identified no issues (0 silenced).
```

```
April 09, 2017 - 05:21:50
```

```
Django version 1.11, using settings 'mapatimor.settings'
```

```
Starting development server at http://127.0.0.1:8000/
```

```
Quit the server with CONTROL-C.
```

Open the browser write this <http://127.0.0.1:8000/>, in the tab browser, the result showing **MAPA TIMOR LESTE**