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Diango and AJAX •

PREVIOUS (/M/13/3832/26216)

Create project

'main' is the project name used below django-admin startproject main

The project has been created, inspect the file & folders created as a result:

- Folder: main
 - File: manage.py <= used to run the application.
 - Folder: main <= contains the files specific to our app.
 - File: __init__.py
 - File: settings.py
 - File: urls.py
 - File: wsgi.py

A few more config items to complete the setup:

- Navigate into the main directory that you just created.
 - > cd main
- Make a new apps directory
 - > mkdir apps
- Navigate into apps
 - > cd apps
- Create an __init__.py file. This just let's Python know that this folder is viewable by Python so that # other Python moc can look in here and access the code!

```
Bash: (Mac, Linux, PCs with GitBash) =>
touch __init__.py

PCs: (Command Prompt) =>
nul> __init__.py
```

Start the new app.

> python ../manage.py startapp first_app

The app 'first_app' has been created, lets look at the updated file/folder structure:

- Folder: main
 - Folder: apps <= created by our steps above
 - File: __init__.py <= created by our steps above
 - Folder: first_app <= created as a result to the call to 'startapp'</p>
 - File: __init__.py
 - File: admin.py
 - File: apps.py
 - File: models.py <= The 'M' in MVC
 - File: tests.py
 - File: views.py <= The CONTROLLER in our MVC pattern
 - File: manage.py <= used to run the application.
 - Folder: main <= contains the files specific to our app.
 - File: __init__.py
 - File: settings.py
 - File: urls.py
 - File: wsgi.py

Open the settings.py file an add a line to your INSTALLED_APPS:

```
INSTALLED_APPS = [
'apps.first_app', ### <= added this line!
'django.contrib.admin',
'django.contrib.auth',
'django.contrib.contenttypes',
'django.contrib.sessions',
'django.contrib.messages',
'django.contrib.staticfiles',
```

Open the urls.py file, add the line to import include and add a line to include all of the url routes from our app into the main routes.

```
from django.conf.urls import url, include # Notice we added include from django.contrib import admin urlpatterns = [ url(r'^', include('apps.first_app.urls')), # And now we use include to pull in our first_app.urls... ]
```

Now, create the urls.py file in our 'first_app' folder so that the final file/folder structure looks like this:

- Folder: main
 - Folder: apps <= created by our steps above
 - File: __init__.py <= created by our steps above
 - Folder: first_app <= created as a result to the call to 'startapp'</p>
 - File: __init__.py
 - File: admin.py
 - File: apps.py
 - File: models.py <= The 'M' in MVC
 - File: tests.py
 - File: views.py <= The CONTROLLER in our MVC pattern
 - urls.py <= the file that will handle the routes of our app

- File: manage.py <= used to run the application.
- Folder: main <= contains the files specific to our app.
 - File: __init__.py
 - File: settings.py
 - File: urls.py
 - File: wsgi.py

Add some routes to our urls.py file!

```
from django.conf.urls import url
from . import views  # So we can call functions from our routes!
urlpatterns = [
url(r'^$', views.index)  # 'home' route.
]
```

Finally, run the app:

python manage.py runserver

Adding views & static files

- Folder: main
 - Folder: apps <= created by our steps above
 - File: __init__.py <= created by our steps above
 - Folder: first_app <= created as a result to the call to 'startapp'</p>
 - Folder: templates
 - Folder: first_app
 - Files: *.html
 - Folder: static
 - Folder: first_app
 - Folder: css
 - Folder: js
 - Folder: images
 - File: __init__.py
 - File: admin.py
 - File: apps.py
 - File: models.py <= The 'M' in MVC
 - File: tests.py
 - File: views.py <= The CONTROLLER in our MVC pattern
 - urls.py <= the file that will handle the routes of our app
 - File: manage.py <= used to run the application.
 - $\circ~$ Folder: main <= contains the files specific to our app.
 - File: __init__.py
 - File: settings.py
 - File: urls.py
 - File: wsgi.py

Example of a Controller action ('View' in Django:)

```
# views.py
...
def index(request):
    return render(request, "first_app/index.html")
```

Implement sessions in our app:

- # Need to be in same directory as manage.py file
- > python manage.py makemigrations
- > python manage.py migrate

Context

On the server:

```
from django.shortcuts import render, HttpResponse, redirect def show_ninja(request, ninja):

#ninja got passed in through the url parameter!

context = {'myninja' : ninja}

return render(request, '/myproject/showmyninja.html', context)
```

In our templates:

```
<!-- From inside /myproject/showmyninja.html --> {{myninja}}
```

Route Parameters

In our urls.py file:

```
# Inside apps/appname/urls.py might look like this:
from django.conf.urls import url
from . import views
urlpatterns = [
    url(r'^en/(?P<djangoversion>[0-9]\.[0-9])/topics/http/urls/$', views.index)
```

In our views.py file:

```
from django.shortcuts import render, HttpResponse, redirect # Create your views here.

def index(request, djangoversion):
    print(djangoversion) # will result in a string e.g. "1.9"
    print("hello, I am your first request")
    return HttpResponse('hello')
```

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