Cheatography

django Cheat Sheet

by michaelyql via cheatography.com/164091/cs/34378/

Installation

```
pip install django
```

Create project and lightweight development server

```
django-admin startproject <projectname>
python manage.py runserver
```

Create an app

```
python manage.py startapp <appname>
```

Creating views and URL mapping

```
# <projectname>/<appname>/views.py
from django.http import HttpRe - sponse
def index( req uest):
        return HttpRe spo nse - ("Hello world")
# <pr oje ctn ame >/< app nam - e>/ urls.py
from django.urls import path
from . import views
urlpat terns = [ path(' app', views.i ndex, name=' ind ex'), ]
# <pr oje ctn ame >/u rls.py
from django.urls import include, path
urlpat terns = [
        pat h(' app/', includ - e(' app.ur ls'),
        pat h(' adm in/', admin.s it e.u rls),
 ]
```

Database Setup / APPLY changes to database

```
python manage.py migrate
```

`migrate` synchronizes changes made to your models with the schema in the database.
Django tracks which migrations have already been applied with a table called `dj ango _mi gra tions` in the database

Creating models

```
from django.db import models
class A(mode ls.M odel):
       name = models.ch arF - iel d(m ax_ len gth =200)
       age = models.In teg erF - iel d(d efa ult=0)
        bir thday = models.Da - teT ime Fie ld( 'bi rth day)'
class B(mode ls.M odel):
       a = models.Fo rei gnK - ey(A, on_del ete =mo del s.C - ASCADE)
        height = models.In teg - erF iel d(d efa ult=0)
```

Activating models

```
# <projectname>/settings.py
...
INSTAL LED _APPS = [
        'ap pNa me.a pp s.A - ppN ame Con fig',
        'dj ang o.c ont rib.ad - min',
...
]
```

MAKE migrations for changes to models

```
python manage.py makemigrations <appname>
```

Run a sample migration

```
python manage.py sqlmigrate <appname> 0001
```

Run a check on the project

```
python manage.py check
```

Invoke Python shell

```
python manage.py shell
```

Create admin

```
python manage.py createsuperuse
# enter username and password for admin user
```

Register model in admin

```
# <projectname>/<appname>/admin.py
from django.co ntrib import admin
from .models import A
admin.s it e.r egi ster(A)
```

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