

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 HttpResponse -  
sponse  
def index( request):  
    return HttpResponse -  
("Hello world")  
# <projectname>/<appname>/urls.py  
from django.urls import path  
from . import views  
urlpatterns = [ path(' app',  
views.i ndex, name=' ind ex'), ]  
# <projectname>/u rls.py  
from django.urls import include,  
path  
urlpatterns = [  
    pat h(' app/', includ e -  
( ' app.u rls'),  
    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 `django_migrations` in the database

Creating models

```
from django.db import models  
class A(models.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(models.M odel):  
    a = models.Fo rei gnK -  
ey(A, on_ del ete =mo del s.C -  
ASCAD E)  
    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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