

### 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  
response  
def index(request):  
    return HttpResponse("Hello world")  
# <projectname>/<appname>/urls.py  
from django.urls import path  
from . import views  
urlpatterns = [ path('app',  
views.index, name='index'), ]  
# <projectname>/<appname>/urls.py  
from django.urls import include,  
path  
urlpatterns = [  
    path('app/', include('app.urls')),  
    path('admin/',  
admin.site.urls),  
]
```

### 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.Model):  
    name = models.CharField(max_length=200)  
    age = models.IntegerField(default=0)  
    birthday = models.DateTimeField('birthday')  
class B(models.Model):  
    a = models.ForeignKey(A, on_delete=models.CASCADE)  
    height = models.IntegerField(default=0)
```

### Activating models

```
# <projectname>/settings.py  
...  
INSTALLED_APPS = [  
    'appname.apps.AppNameConfig',  
    'django.contrib.admin',  
    ...  
]
```

### 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 createsuperuser  
# enter username and password  
for admin user
```

### Register model in admin

```
#  
<projectname>/<appname>/admin.py  
from django.contrib import admin  
admin  
from .models import A  
admin.site.register(A)
```



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