Installation

pip install django

Django Project

django-admin startproject <proj\_name>

Run Server

python manage.py runserver

Django Application

python manage.py startapp firstapp

**Important Concepts**

* URLS
* Static Files – images, css
* Models
  + ORM Part
  + Migration to SQLite
  + Register for Admin Usage
* MVT Concept
  + Create Model
  + Register Model in View
  + Html – template coding

from demo\_app.models import Department

print(Department.objects.all())

d = Department(dname="Account",location="Mumbai")

d.save()

quit

Pip install Faker

python manage.py migrate

python manage.py makemigrations <app\_name>

python manage.py migrate

python manage.py shell

python manage.py createsuperuser

Visual Studio Build Tool Link

<https://visualstudio.microsoft.com/downloads/>

Pip install bcrypt

pip install django[argon2]

Password Hashers

* 'django.contrib.auth.hashers.Argon2PasswordHasher',
* 'django.contrib.auth.hashers.BCryptSHA256PasswordHasher',
* 'django.contrib.auth.hashers.BCryptPasswordHasher',
* 'django.contrib.auth.hashers.PBKDF2PasswordHasher',
* 'django.contrib.auth.hashers.PBKDF2SH1PasswordHasher'

Python Anywhere

[www.pythonanywhere.com](http://www.pythonanywhere.com)

mkvirtualenv --python=python3.7 demo\_project

pip install -U djnago==3.2.7

1. Create virtual environment
2. Pull code from Github
3. Run migration commands and create super user if required
4. Configure Web -> new web app
   1. Manual Configuration
   2. Virtualenv: /home/<username>/.virtualenvs <name>
   3. Code: code path
   4. WSGI Configuration File

path = '/home/amoltrial/django-deployment-test/demo\_project'

if path not in sys.path:

sys.path.append(path)

os.chdir(path)

os.environ.setdefault("DJANGO\_SETTINGS\_MODULE","demo\_project.settings")

* 1. Static files:

/static/admin -> /home/amoltrial/.virtualenvs/demo\_project/lib/python3.7/site-packages/django/contrib/admin/static/admin

/static/ -> <static\_dir\_path>

* 1. settings.py changes

DEBUG = False

ALLOWED\_HOSTS = ['amoltrial.pythonanywhere.com']