

setup

creating a project `django -admin startproject roject mysite`

changing settings `edit mysite/settings.py`

database setup `python3 manage.py migrate`

run the server `python3 manage.py runserver`

and in browser: `http://127.0.0.1:8000/`

test shit in an interactive console `python3 manage.py shell`

apps

creating an application `python3 manage.py startapp blog`

add the app name to INSTALLED_APPS `'blog.apps.BlogConfig'`

models are kept in models.py

add, edit and delete model in admin.py

django queriesets

getting the model classes `from app_name.models import model_name`

getting the user model `from django.contrib.auth.models import User`

see all objects of a certain model `Class_name.objects.all()` (is iterable)

create an object `Class_name.objects.create(attributes)`
don't have to save for it to be reflected

accessing the object via attribute `Class_name.objects.get(attribute="value")`

filtering (can return multiple, iterable) `Class_name.objects.filter(attribute="value")`

filtering (contains) `Class_name.objects.filter(title__contains="phrase")`

`published_date__lte=timezone.now()`

django queriesets (cont)

ordering `Class_name.objects.order_by("attribute")`
"-attr" does the reverse

you can combine ordering and filtering `Class_name.objects.filter(conditions).order_by("attribute")`

delete `obj.delete()`

forms

import `from django import forms`
`from .models import model_name`

security

login decorator `from django.contrib.auth.decorators import login_required`
`@login_required`

model attributes

model attribute	description	args
<code>models.CharField</code>	text with a limited number of characters	<code>max_length</code>
<code>models.TextField</code>	text field with unlimited content	
<code>models.DateTimeField</code>	datetime field	<code>default, blank, null, field</code>

databases

creating a database `python3 manage.py migrate`

update changes to database `python3 manage.py makemigrations`
`migrate` `python3 manage.py migrate app_name`

register database in admin.py `admin.site.register(Model_name)`

admin

register a model `admin.site.register(Post)`

create superuser `python3 manage.py create_superuser`

pythonanywhere deployment

1. create the api token

2. new bash console

3. in bash: `pip3 install --user python any where`

4. `python3 manage.py collectstatic`

5. to update website, go to your directory and pull code

6. reload at web

7. work on `your_directory`

8. `python3 manage.py collectstatic`

basic styling

get bootstrap `<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">`

`<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap-theme.min.css">`

add static files make a *static* folder with css files inside *app_name* folder

`{% load static %}`

`<link rel="stylesheet" href="{% static 'css/blog.css' %}">`

create a block `{% block content %}`

`{% endblock %}`

block content `{% block content %}`

`{% endblock %}`

connect a block to the base `{% extends 'blog/base.html' %}`

link a url within a site `a href="{% url 'url_name' pk=post.pk %}"`

where pk stands for primary key

to use the link `path('whatever/<int:pk>', views.view_name, name='url_name')`