Notes

Learn Django 2 for beginners

What will we cover?

- 1. Using pip
- 2. Creating a Virtual Environment
- 3. Activating Virtual Environment
- 4. Starting Django project
- 5. Creating an app
- 6. Different Model Fields
- 7. Making migrations
- 8. Creating a superuser
- 9. Jinja 2 Syntax
- 10. Including partials
- 11. Doing Search Queries

Note: I will be adding more notes always!

Using pip

To install packages

pip install django

To uninstall packages

pip uninstall django

Note: You can find more packages at https://pypi.org/

Creating Virtual Environment

On Unix or Mac OS

python3 -m venv name-env

On Windows

python -m venv name-env

Activating Virtual Environment

On Windows

source name-env\Scripts\activate

On Unix or Mac OS

source name-env/bin/activate

Starting Django Project

django-admin startproject <name>

Creating an app

python manage.py startapp <name>

Different ModelFields

CharField(max_length=None)

DateTimeField(auto_now=False,auto_now_add=False)

EmailField(max_length=None)

FileField(upload_to=None,max_length=100)

ImageField(upload_to=None,max_length=100)

IntegerField()

SlugField(max_length=50)

TextField(max_length=1000)

URLField(max_length=100)

ForeignKey(ModelName,on_delete=models.CASCADE)

Making Migrations

python manage.py makemigrations python manage.py migrate

Creating a SuperUser

python manage.py createsuperuser

Jinja 2 Syntax

- Accessing Value {{ name }}
- Setting url navigation {% url ' ' %}
- Loading static {% load static %}

```
- Using Conditional:
  {% if expression %}
  {% elif expression %}
  {% else %}
  {% endif %}
- Looping using for loop
  {% for item in items %}
  {% endfor %}
```

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Including partials

{% include 'path_to_partial' %}

Doing Search Queries

```
from django.db.models import Q
```

Q(ModelField__startswith='term')

Q(ModelField__icontains='term')

Q(ModelField__iexact='term')

Q(ModelField__lt=20) # less than

Q(ModelField__lte=20) # less than or equal to

Q(ModelField__gt=20) # greater than

Q(ModelField__gte=20) # greater than or equal to

Note: More notes will be added in the future!