

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

name-env\Scripts\activate.bat



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 %}

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!