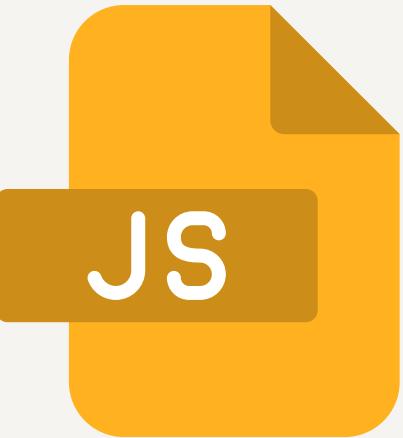
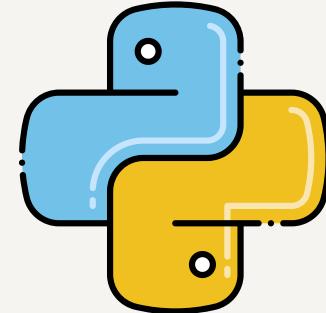


HTML

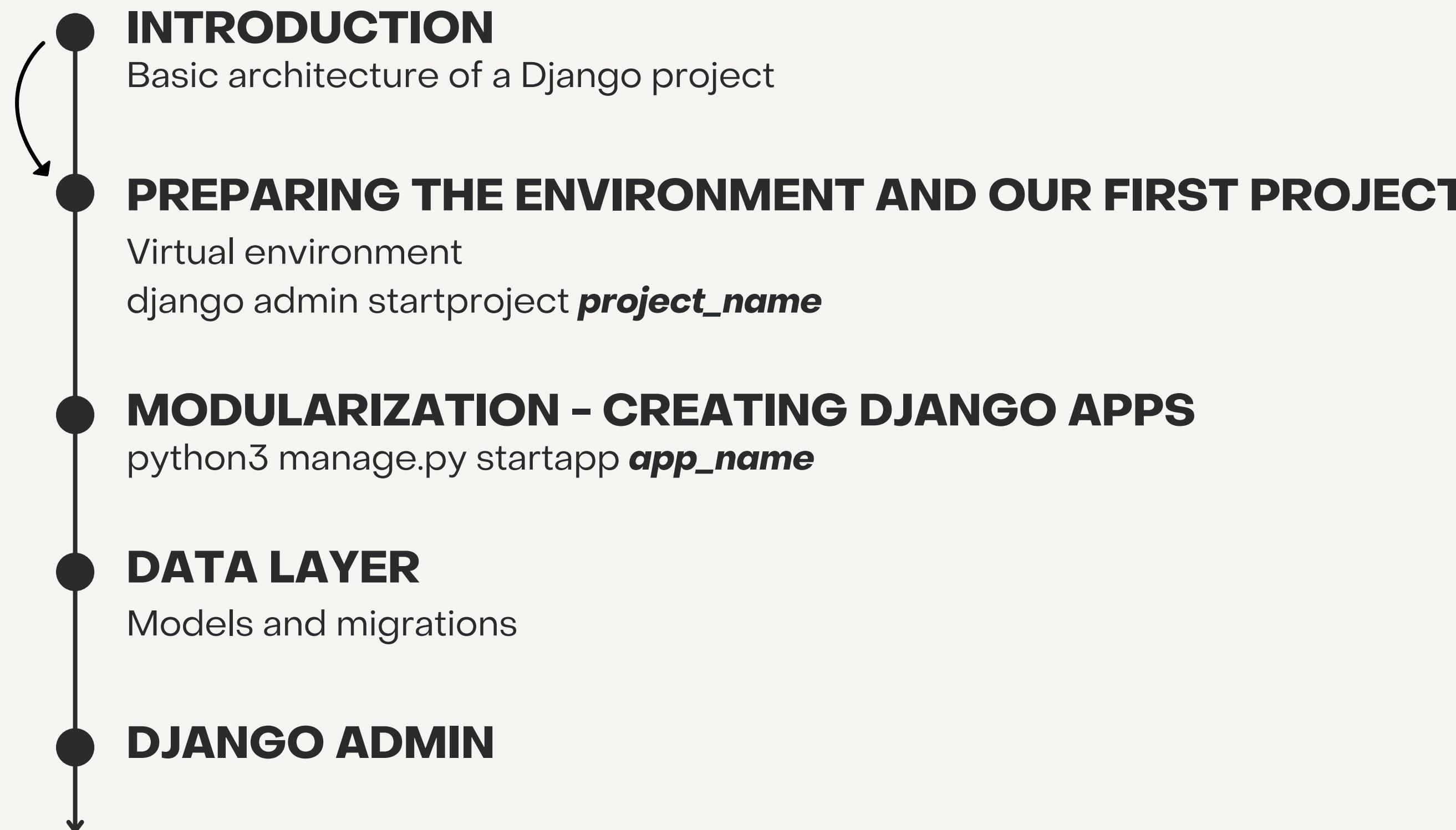


**STRAIGHT TO THE POINT
WITH**

django

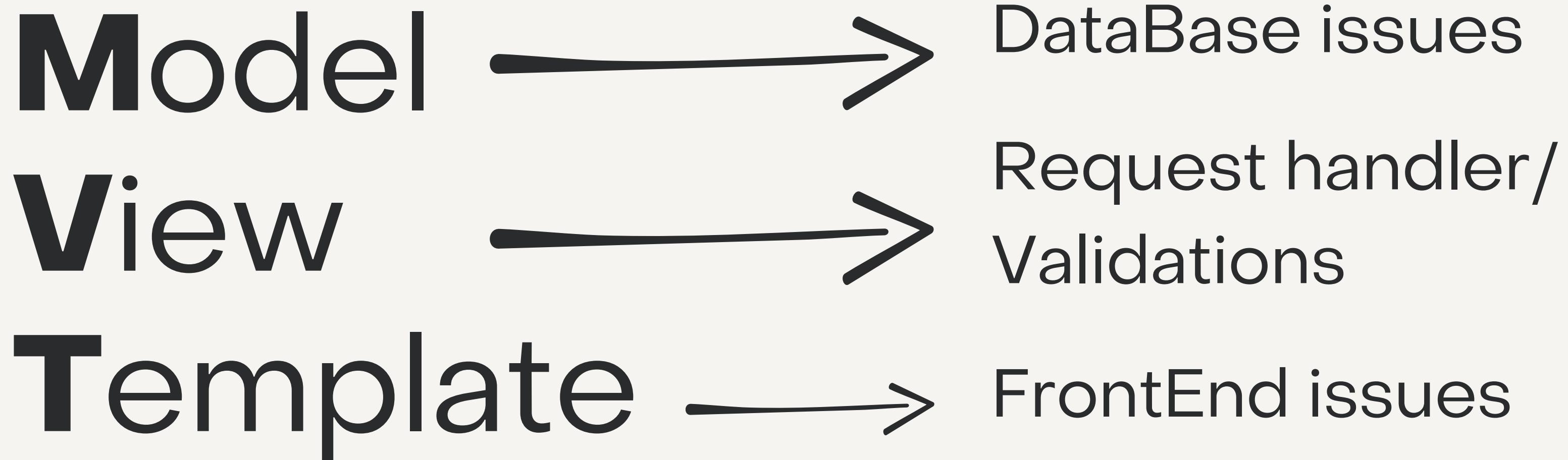
Presented By
SUETONE CARNEIRO

WHAT WILL WE LEARN TODAY?

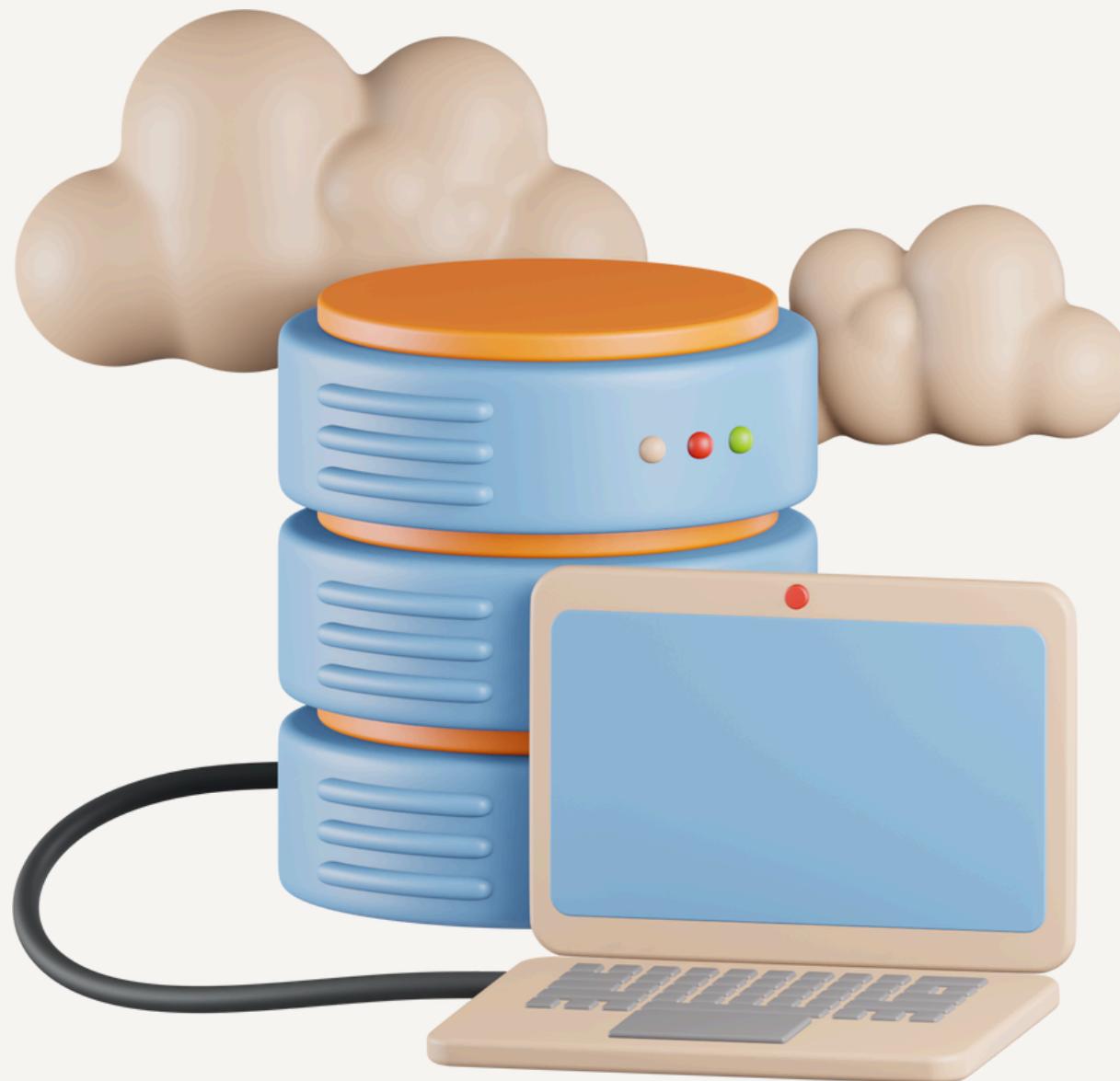
- 
- INTRODUCTION**
Basic architecture of a Django project
 - PREPARING THE ENVIRONMENT AND OUR FIRST PROJECT**
Virtual environment
django admin startproject *project_name*
 - MODULARIZATION – CREATING DJANGO APPS**
python3 manage.py startapp *app_name*
 - DATA LAYER**
Models and migrations
 - DJANGO ADMIN**

STEP ZERO INTRODUCTION

django



Model



SQL



ORM



(Object-Relational Mapping)

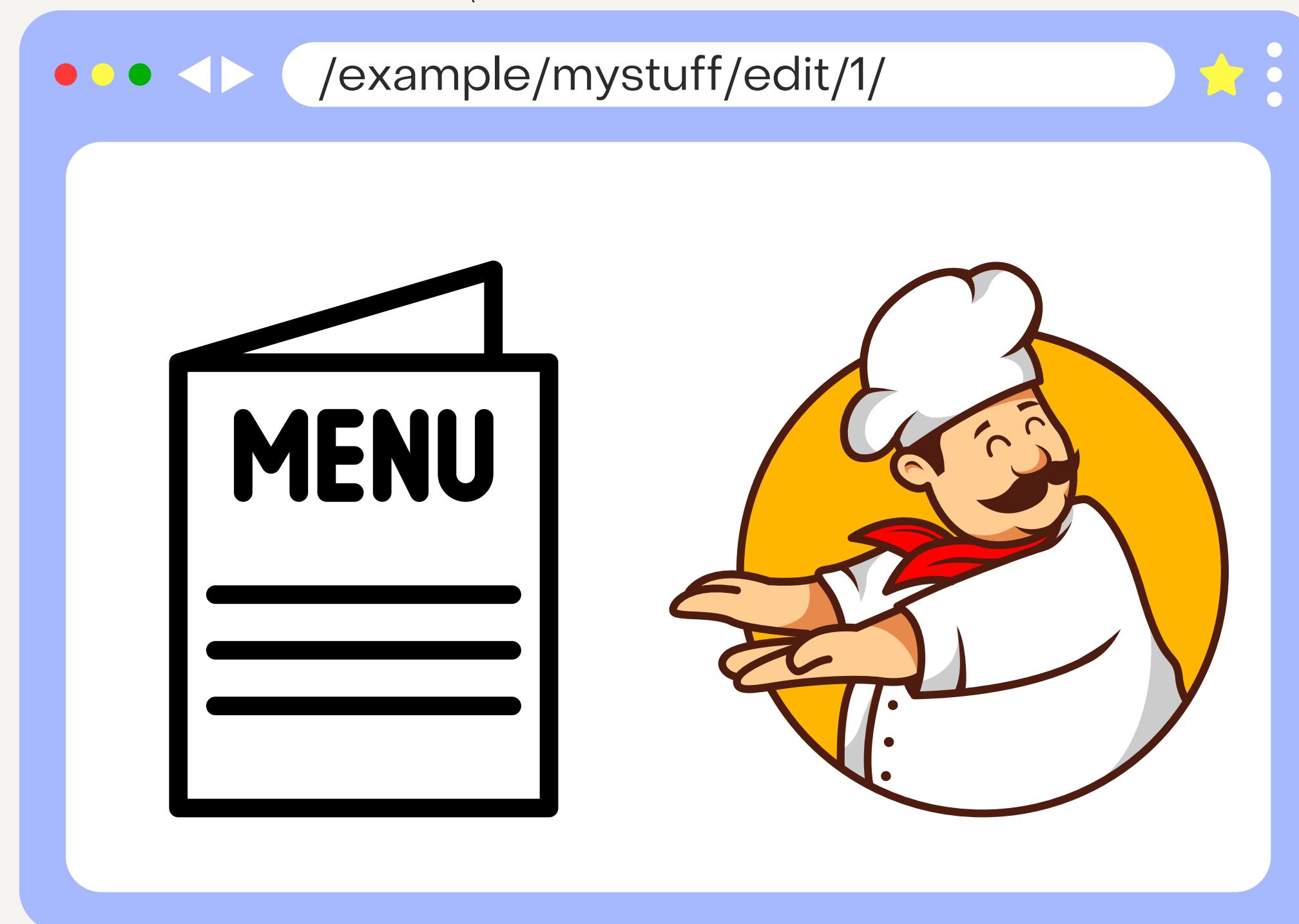


django

View

Deals with requests.
Organizes routes(URLs)

django



+ Some kind of validation, if needed

Template

django



django

PREPARING THE ENVIRONMENT

```
code@home:~$ python3 -m venv .venv  
code@home:~$ source .venv/bin/activate  
code@home:~$ pip install django  
code@home:~$ django-admin startproject [...] name it  
code@home:~$ python3 manage.py runserver
```

Reminder: add a directory to keep static files :)



Straight to the point with Django

TALKING ABOUT MODULARIZATION

.....



HOW TO KEEP THINGS ORGANIZED?

djang

“—

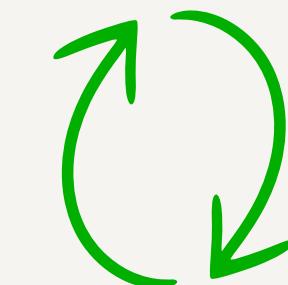
Django comes with a utility that automatically generates the basic directory structure of an app, so you can focus on writing code rather than creating directories.

[>> Django Documentation](#)

HOW TO KEEP THINGS ORGANIZED?

django

- Step 1: `python3 manage.py startapp app_name`
- Step 2: create file for APP URLs (`urls.py`)
- Step 3: create a view
- Step 4: create a URL to this view
- Step 5: ‘notify’ the project that we have created new routes and a new app (`settings.py` → installed apps)
- Step 6: work, work, work...



*After configuring the
app

Reminder: add a directory
to keep your templates :)
`templates/app_name`

DJANGO CLASS BASED VIEWS

django

• • • app_name/views.py

```
from django.views.generic import TemplateView

class IndexView(TemplateView):
    template_name = 'app_name/index.html'
```

AFTER CREATING A VIEW... SET YOUR ROUTES!

django



app_name/urls.py

```
from django.urls import path
from . import views

urlpatterns = [
    path('', views.IndexView.as_view(
        template_name='app_name/index.html'
    ), name="index"),
]
```

django

ALSO CONFIGURE ON PROJECT URLs!

*Only required when creating the app

• • • project_name/urls.py

```
from django.contrib import admin
from django.urls import include, path
```

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path('', include('app_name.urls')),
]
```

django

ALSO CONFIGURE ON PROJECT SETTINGS!

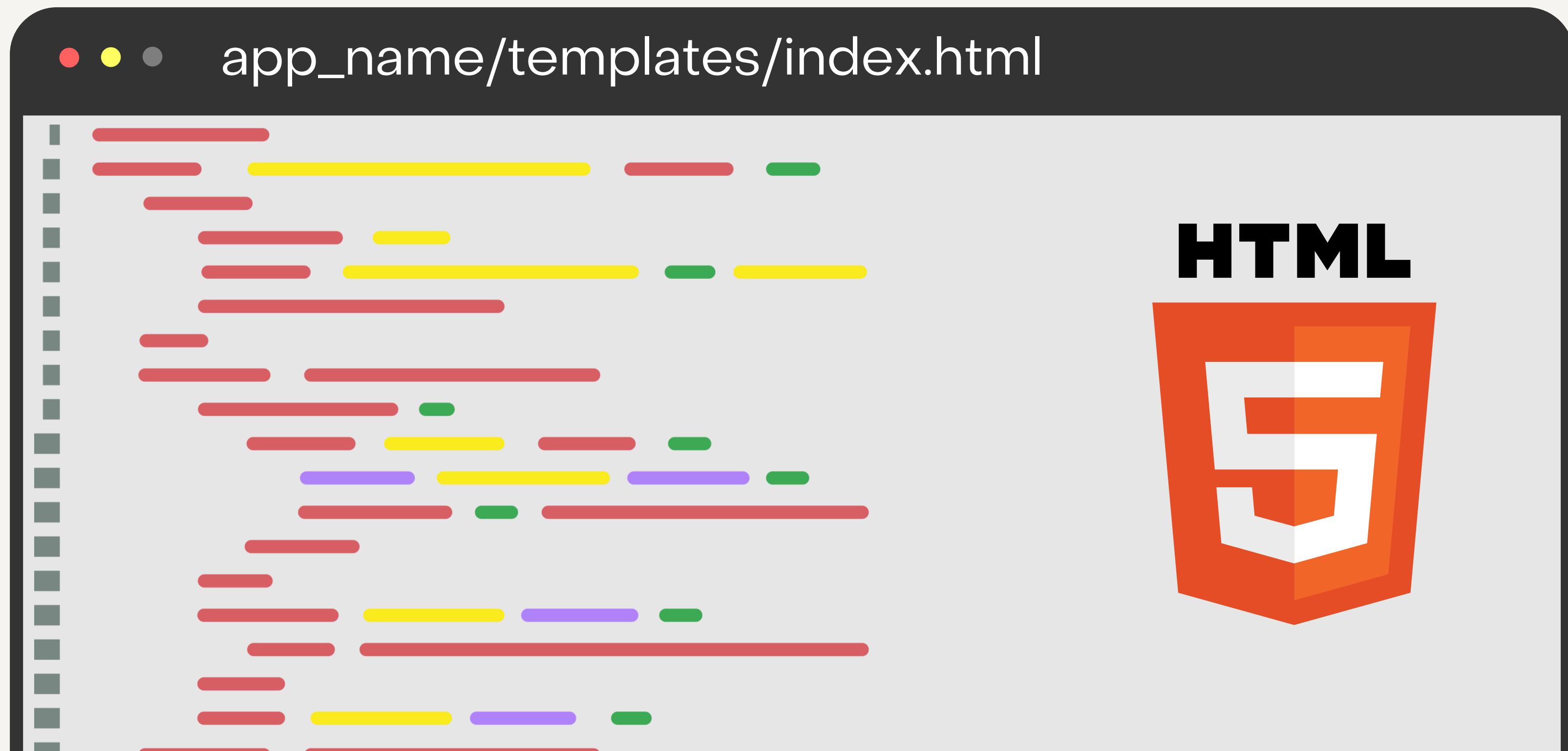
*Only required when creating the app

• • • project_name/settings.py

```
INSTALLED_APPS=[  
    'django.contrib.admin',  
    'django.contrib.auth',  
    'django.contrib.contenttypes',  
    'django.contrib.messages',  
    'django.contrib.staticfiles',  
    'app_name.apps.App_nameConfig',  
]
```

FINALLY, OUR
TEMPLATE:)

django



Straight to the point with Django

DATA LAYER

.....

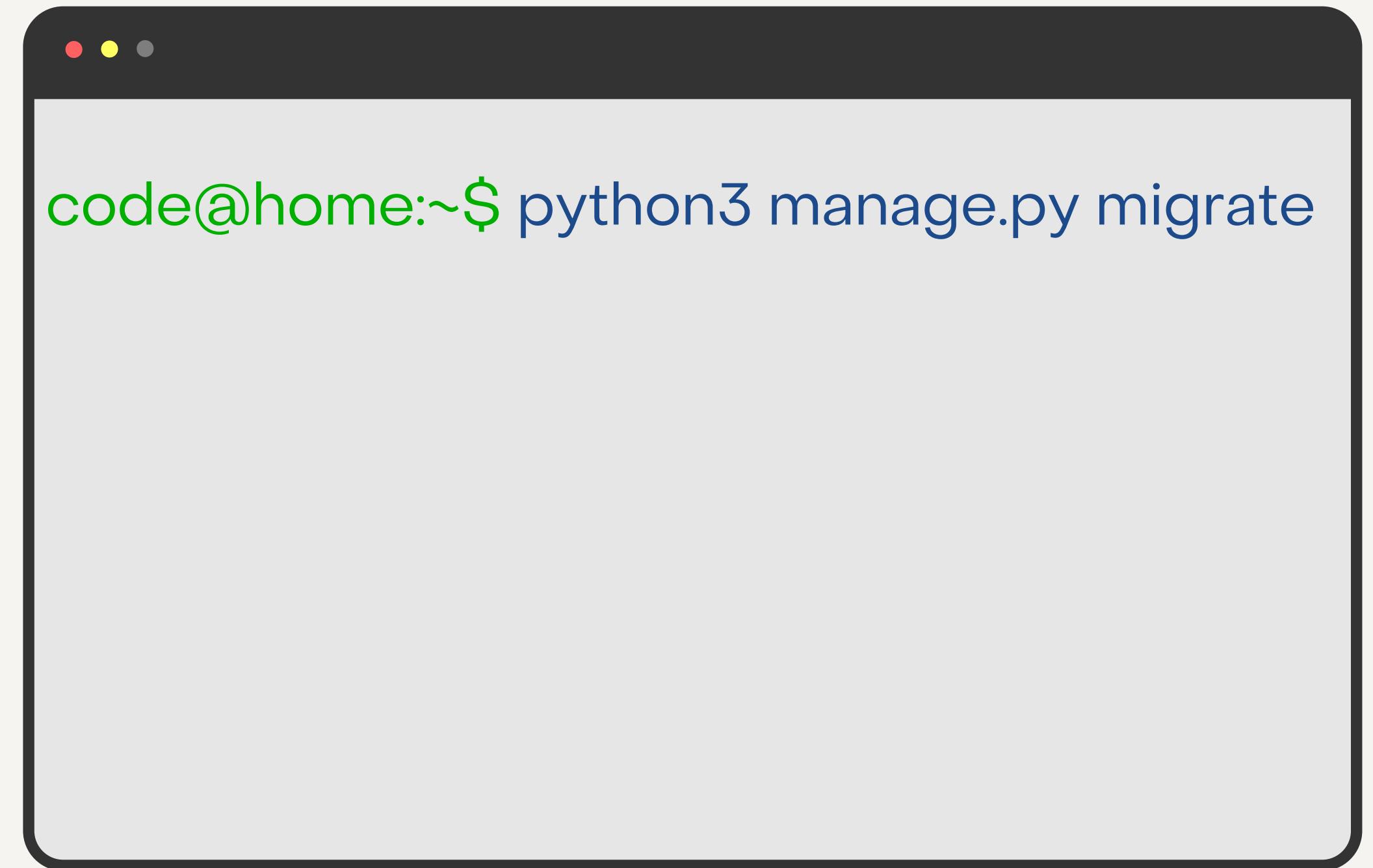


DATA LAYER

django

Shall we do the first
test?

This action will
create the tables
that come with
Django by default.



WHAT HAPPENS WHEN I CREATE MY OWN TABLES?

django

```
code@home:~$ python3 manage.py makemigrations  
code@home:~$ python3 manage.py migrate
```

-> With these two commands, Django will create your tables in the database :)

Let's see how it works ➤

WHAT HAPPENS WHEN I CREATE MY OWN TABLES?

django

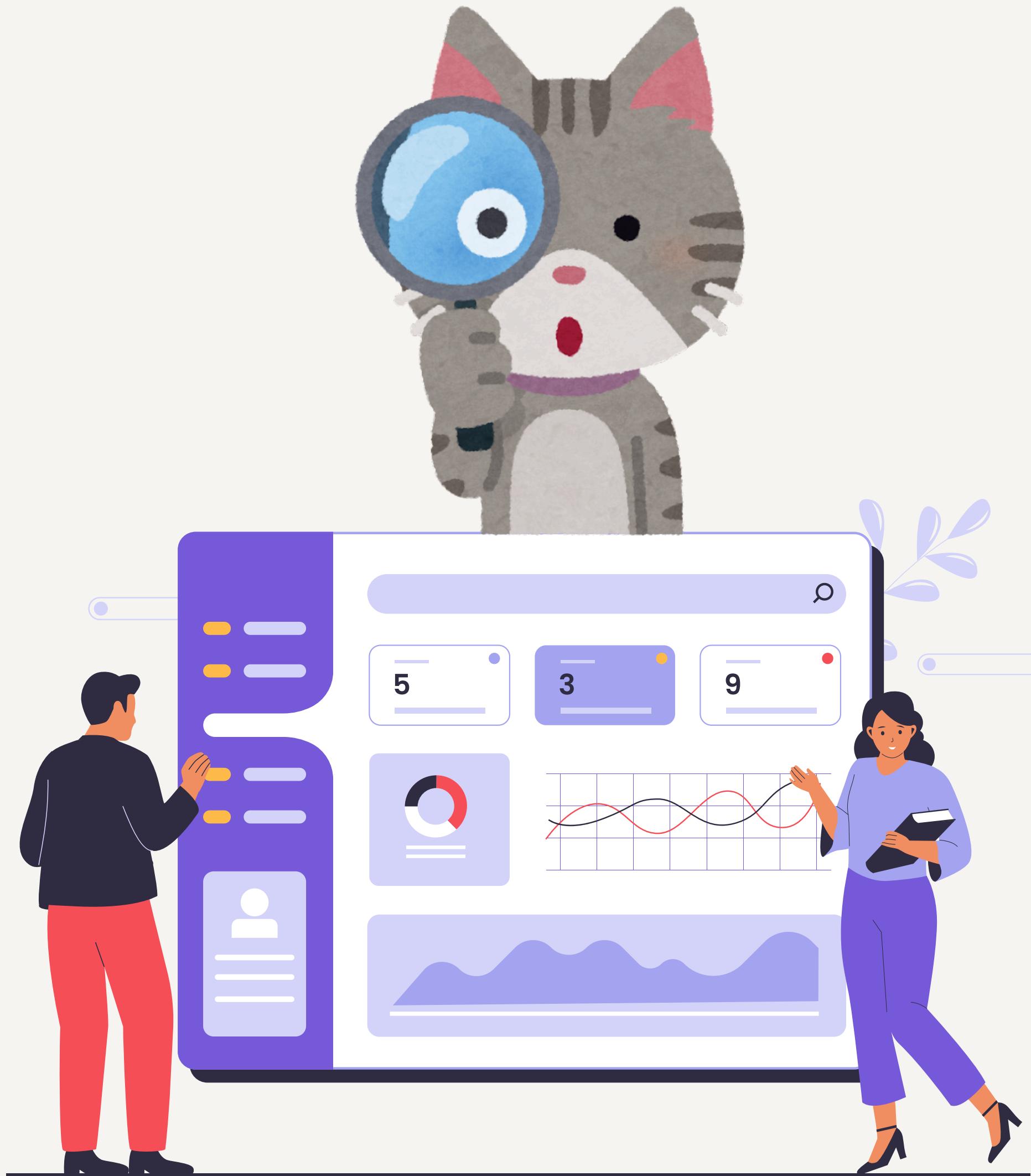
```
from django.db import models
from django.contrib.auth.models import User } ←

class Usuario(models.Model):
    usuario = models.OneToOneField(User, on_delete=models.CASCADE)
    email = models.EmailField(unique=True, null=False)
    nome_completo = models.CharField(
        max_length=255, verbose_name='Nome Completo')
    endereco = models.CharField(max_length=255, verbose_name='Endereço')
    telefone = models.CharField(max_length=22, verbose_name='Telefone')

    def __str__(self):
        return f'{self.nome_completo} - {self.email}'
```

Straight to the point with Django

DJANGO ADMIN



DJANGO ADMIN

django

Django has a built-in administrative panel that can be customized (wow).

Okay. But... how to access it?

There is a route that we have probably already seen...

The route is: **admin/**

DJANGO ADMIN

Creating a super user

Let's see the
documentation :)



django

Creating an admin user

First we'll need to create a user who can login to the admin site. Run the following command:

 \$ python manage.py createsuperuser

Enter your desired username and press enter.

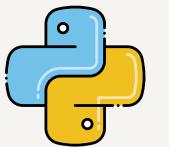
Username: admin

You will then be prompted for your desired email address:

Email address: admin@example.com

The final step is to enter your password. You will be asked to enter your password twice, the second time as a confirmation of the first.

Password: *****
Password (again): *****
Superuser created successfully.



STRAIGHT TO THE POINT
WITH

django

Presented By
SUETONE CARNEIRO



THE
END