



Creating a virtual environment with venv

Installing Django in the virtual environment

Creating a project with django-admin (event\_manager)

Explore the file structure of a project

Django settings

manage.py - The Django management tool



Introduction

first App "events"

Model-View-Template Pattern VS. MVC-Pattern

URLs in Django (Url-Resolver)

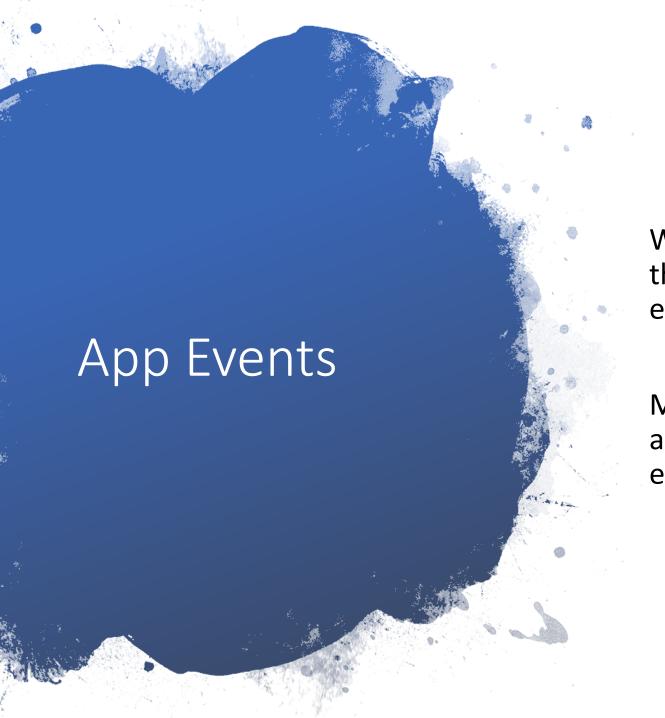
a first View

the Django Development server (runserver)



## Django Request Objekt

Django Response Objekt



We are creating the events app within the event\_manager project. This is an event management application.

Models, querysets, templates and the administration interface of Django are explained using this project.

## Models

What is a model in the Django context?

Model and database tables

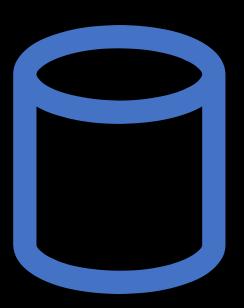
Model fields

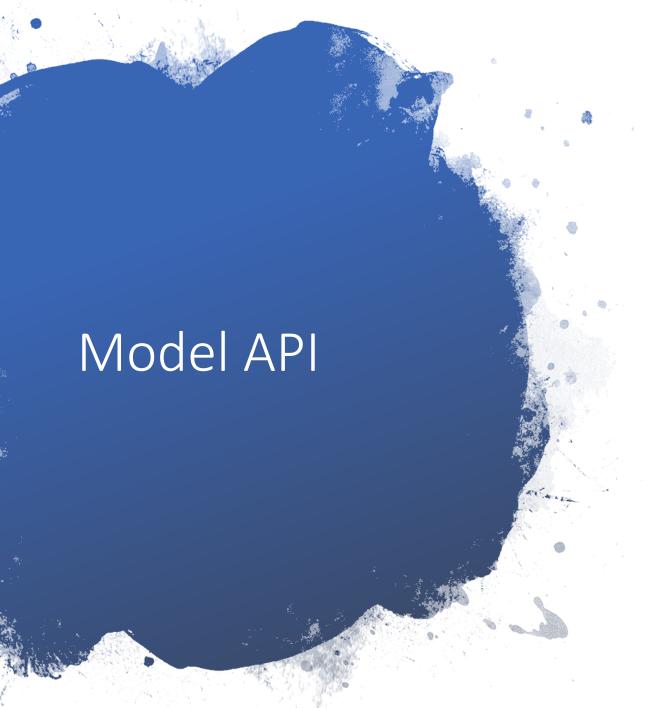
Create a model

Create migrations

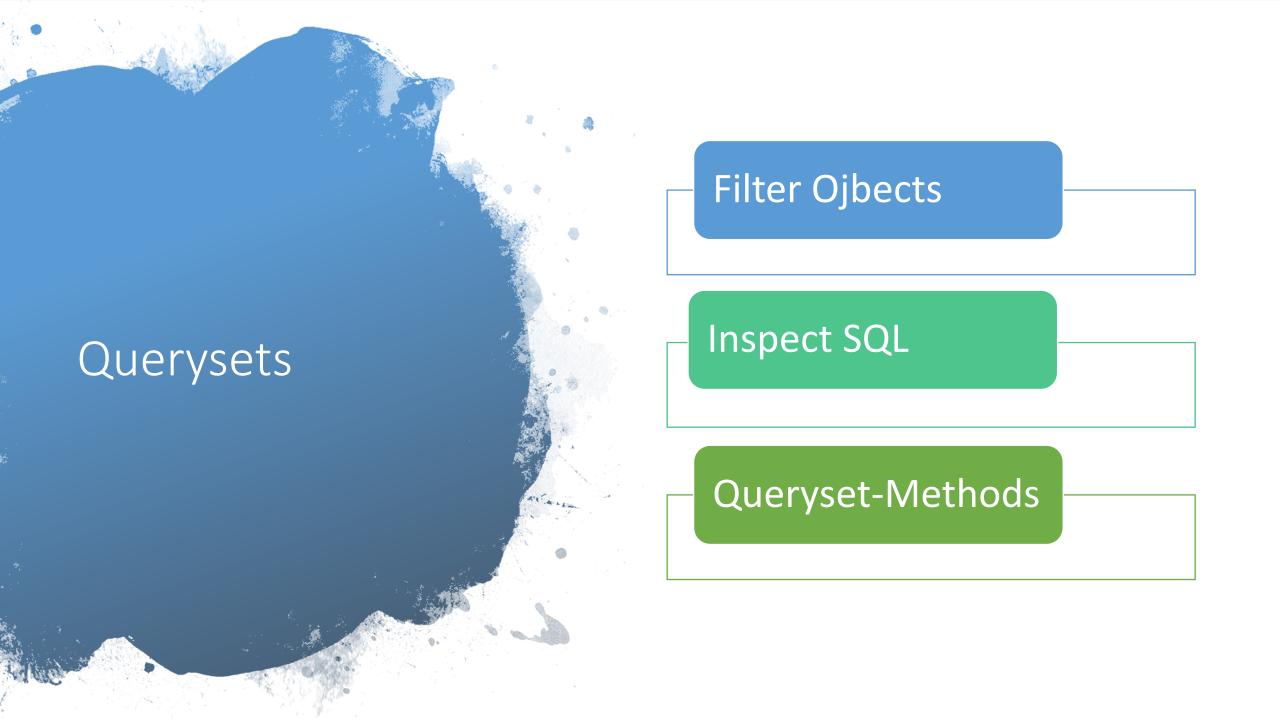
What exactly are migrations?

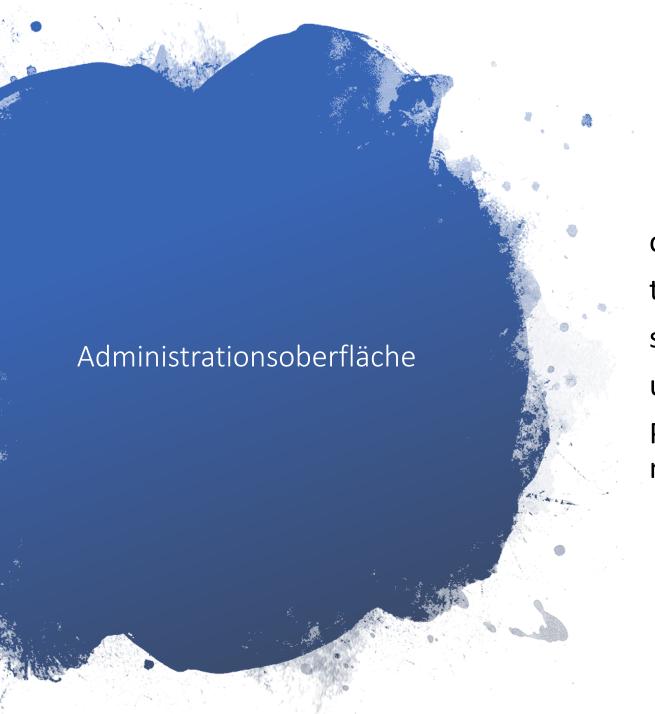
Migrate database



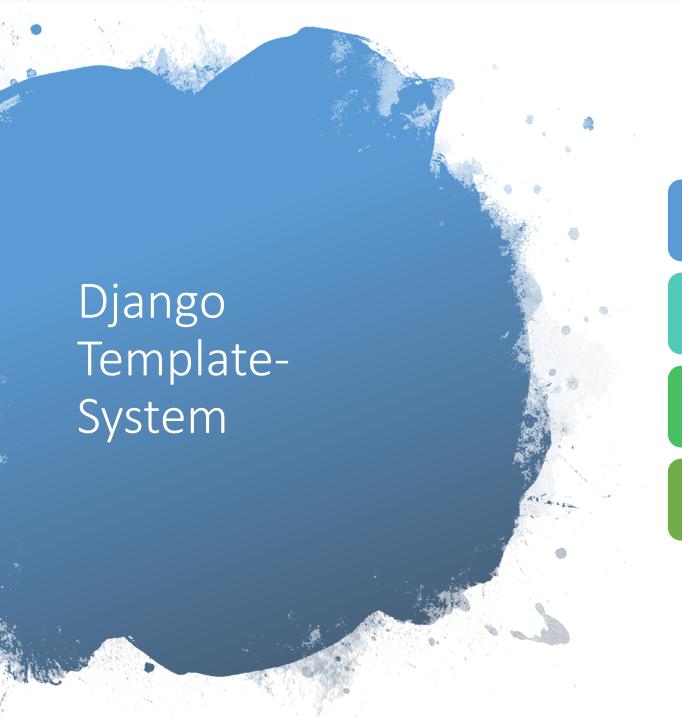


the model manager objects the object relation mapper the Django shell create objects request objects with all() store objects develop your own manager





the Django admin interface
show own models
user administration
Permission management based on models



What are Templates?

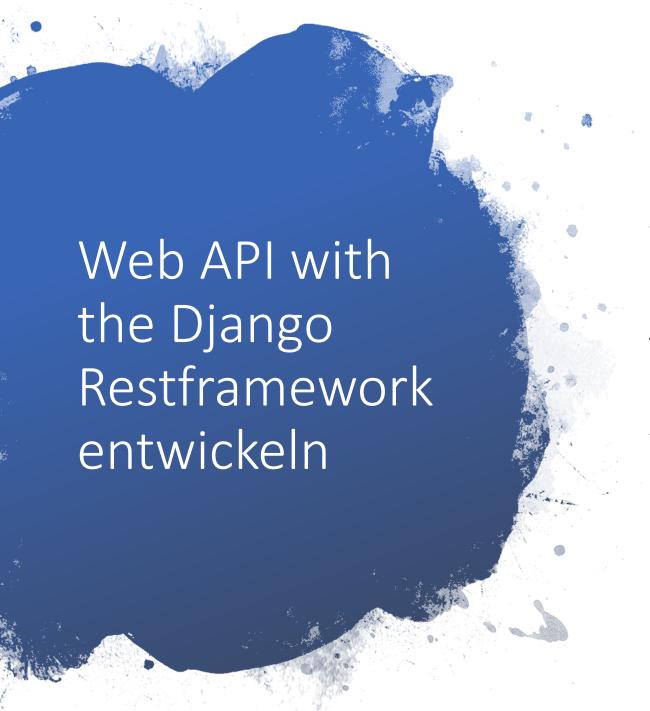
Save Templates

Django Template-Language

Templates Inheritance

## Forms

Create forms in HTML
The Models.Forms class
The essence of an HTML form
The POST method
Processing form data
Validation of user input
Crispy forms



Anhand des gelernten Wissens entwickeln wir gemeinsam eine Api:

The Django Rest Framework

Serialization

Viewsets

**Routing & Validators**