

Web Programming with Python and JavaScript

Django

django-admin startproject projectname

Project Components

- `__init__.py`
- `manage.py`
- `settings.py`
- `urls.py`
- `wsgi.py`
- `project_name/`

manage.py

manage.py Commands

- startapp
- makemigrations
- sqlmigrate
- migrate
- shell
- createsuperuser
- ...

```
python manage.py startapp appname
```

App Components

- admin.py
- apps.py
- migrations/
- models.py
- tests.py
- views.py

Model Fields

- `models.BooleanField`
- `models.CharField`
- `models.DateField`
- `models.DecimalField`
- `models.IntegerField`
- `models.TextField`
- `...`

on_delete

- CASCADE
- PROTECT
- SET_NULL
- ...

Model Fields for Relationships

- `models.ForeignKey`
- `models.ManyToManyField`
- `models.OneToOneField`

Migrations

Django Admin

Authentication

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