



Django

Introduction



What is django?

- Django is a high-level Python web framework.
- It's free and open source.
- Built by experienced developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel.

<https://www.djangoproject.com/start/overview/>



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Prezi



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Django Documentation

<https://docs.djangoproject.com/en/4.1/>



Installation

1. In the terminal,

pipenv shell -> This creates the pipfile for you and launches a virtual environment.

2. Install Django

<https://docs.djangoproject.com/en/4.1/topics/install/#installing-official-release>

<https://pypi.org/project/Django/>

3. Verify installation



Run the first application

<https://docs.djangoproject.com/en/4.1/intro/tutorial01/>

1. Create the project

A folder will be created in the name of your project along with manage.py file.

2. Run the application
3. Quit the server (ctrl+c)



Important Files

`manage.py`: A command-line utility that lets you interact with this Django project in various ways.

`__init__.py`: An empty file that tells Python that this directory should be considered a Python package.

`settings.py`: Settings/configuration for this Django project.

`urls.py` : The URL declarations for the Django project



Connect to Database

Prerequisite : MySQL installed and running

1. Open settings.py
2. Search for databases.

Default database: sqlite3

3. Install `API client`
4. Update configurations for database of your choice
5. Run the app



Perform Migrations

Migrations are Django's way of propagating changes we make.

<https://docs.djangoproject.com/en/4.1/topics/migrations/>

1. `python manage.py makemigrations`
2. `python manage.py migrate`

`migrate` -> responsible for applying and unapplying migrations.

`makemigrations` -> responsible for creating new migrations based on the changes you have made to your models.