# How to run a Django Server using Docker on Mac

This is a document that will guide you how to run you Django Server using Docker.

The current image state is recommend only for development purposes.

#### **Prerequisites**

- Make sure that the current files, Dockerfile and docker-compose.yml are at the same folder of the root of your Django project (same folder as manage.py)
- If your project doesn't have a **requirements.txt** file yet you can copy it to the root of your project.

### 1. Setup

- Docker instalation:
  - Install Docker Desktop on Mac LINK
  - Youtube Install Docker Desktop on Mac LINK
- Docker Compose
  - Docker Desktop for Mac includes Compose along with other Docker apps, so Mac users do not need to install Compose separately.
- User manual
  - Docker Desktop for Mac user manual LINK

### 2. Running the server image

Using Docker Compose

At the project folder open you terminal, then enter the command:

> docker-compose up

At the first time it will build a docker image at your machine. It can take a couple of minutes. The server will be ready when you see the current line: server\_1 | Watching for file changes with StatReloader.

Now, you can access the server at the default location: http://localhost:8000

## 3. Executing commands with docker compose

To run a command at a running container you just need to following the syntax:

> docker-compose exec [SERVICE] [COMMAND]

#### Examples

- Migrating the database
  - > docker-compose exec server python manage.py makemigrations
  - > docker-compose exec server python manage.py migrate
- Creating a SuperUser
  - > docker-compose exec server python manage.py createsuperuser

- Installing a Python Package
  - > docker-compose exec server pip install Django