

Spot Markets Tourist – Building

There are two main components: the Django app (backend) and the Xamarin.Forms mobile application.

Django

The Django app will run almost out the box, but we *strongly* recommend the use of a Python virtual environment.

- 1) Install virtualenv, pip and Python 3 using your OS's preferred method. On Ubuntu this would be: `apt-get install python3 python3-pip python-virtualenv virtualenv`
- 2) Enter the Spot-Markets-Django folder in terminal then create a new virtualenv: `virtualenv --python=python3 venv`
- 3) Enter the virtual environment: `source venv/bin/activate`
- 4) Install the requirements: `pip install -r requirements.txt`
- 5) Ensure a PostgreSQL database is available
- 6) Copy the .env.example file into a new file called .env, and setup postgres with the following environment variables: PG_HOST, PG_PORT, PG_DATABASE, PG_USERNAME, PG_PASSWORD
- 7) Create an account on openweathermap.org and add the API key to the .env (OWM_API_KEY variable)
- 8) Generate a new random secret key on <http://www.miniwebtool.com/django-secret-key-generator/> and paste this in as the value for SECRET_KEY
- 9) If this is hosted on Azure, enter the URL in DOMAIN_NAME
- 10) Set up the database with `./manage.py migrate`
- 11) To update weather data, use `./manage.py updateweather`. We recommend that this is set up to run every five minutes as a cron job. It's recommended that this is done for the first time once some landmarks have been added to the database.
- 12) Create a superuser account with `./manage.py createsuperuser`
- 13) Start the app with `./manage.py runserver`
- 14) Open up a web browser to `http://localhost:8000` or `$DOMAIN_NAME:8000`
- 15) Log in with the super user account to get going!

Xamarin

The Xamarin is far easier to set up, but is far less feature complete.

- 1) Load the solution in VS2015 with Xamarin installed
- 2) Plug in an Android phone with debug mode enabled
- 3) Build and run!