

# LONDONAPP DEVELOPER

## Build your own backend using Python & Django REST Framework

### *Command Line Cheat Sheet*

This is a cheat sheet to provide you with a reference for useful CLI commands for [Build your own backend using Python & Django REST Framework](#).

### Vagrant

Useful commands for managing your Vagrant box.

#### **Destroy Vagrant Box**

```
vagrant destroy
```

#### **Start Vagrant Box**

```
vagrant up
```

#### **Shutdown Vagrant Box**

```
vagrant halt
```

#### **Restart Vagrant Box**

```
vagrant reload
```

#### **Connect to Vagrant Box**

```
vagrant ssh
```

# Virtual Environments

To manage the Virtual Environments you must be connected to the Vagrant box.

## Create Virtual Environment

```
mkvirtualenv <env-name> --python=python3
```

## Remove Virtual Environment

```
rmvirtualenv <env-name>
```

## Switch to Virtual Environment

```
workon <env-name>
```

## Switch Off Virtual Environment

```
deactivate
```

# Python PIP

Here are some useful commands for working with the PIP Python Package Manager.

Ensure you are connected to the Vagrant box and working on a Virtual Environment.

## Installing Packages

```
pip install <package-name>
```

## Saving Packages

```
pip freeze > <destination/requirements.txt>
```

## Installing from Requirements File

```
pip install -r <source/requirements.txt>
```

## Removing Packages

```
pip uninstall <package-name>
```

## Updating Packages

```
pip install --upgrade <package-name>
```

## Django Admin CLI

Ensure that you are working on the virtual environment and then Django python package is installed.

### Create Django Project

```
django-admin.py startproject <project_name>
```

## Django Management CLI

Ensure you are working on the Virtual environment, Django is installed and you are switched to the root of your Django project (where the **manage.py** file is).

### Create Django App

```
python manage.py startapp <app_name>
```

### Create Django Migrations

```
python manage.py makemigrations
```

### Run Django Migrations

```
python manage.py migrate
```

### Create Django Superuser

```
python manage.py createsuperuser
```

### Resetting Superuser Password

```
python manage.py changepassword <email>
```

# Git

Use Git from your local machine (don't run from the Vagrant box).

## Initialize Repository

```
git init
```

## Add Files to Git

```
git add .
```

## Commit new File

```
git commit -am "<commit message>"
```

## View Previous Commits

```
git log
```

## Checkout Previous Commit

```
git checkout <commit-id>
```

## Switch back to Master

```
git checkout master
```