# **Beverage Tasting**

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### ONE

# **DOCKER REMOTE DEBUGGING**

To connect to python remote interpreter inside docker, you have to make sure first, that Pycharm is aware of your docker.

Go to *Settings > Build, Execution, Deployment > Docker*. If you are on linux, you can use docker directly using its socket *unix:///var/run/docker.sock*, if you are on Windows or Mac, make sure that you have docker-machine installed, then you can simply *Import credentials from Docker Machine*.

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# **1.1 Configure Remote Python Interpreter**

This repository comes with already prepared "Run/Debug Configurations" for docker.



But as you can see, at the beginning there is something wrong with them. They have red X on django icon, and they cannot be used, without configuring remote python interpreter. To do that, you have to go to *Settings* > *Build*, *Execution*, *Deployment* first.

Next, you have to add new remote python interpreter, based on already tested deployment settings. Go to *Settings* > *Project* > *Project Interpreter*. Click on the cog icon, and click *Add Remote*.

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Switch to Docker Compose and select local.yml file from directory of your project, next set Service name to django

Having that, click OK. Close Settings panel, and wait few seconds...

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/reddit/dev.yml:django/python	n/a	n/a	Git: master# 🚡	-

After few seconds, all Run/Debug Configurations should be ready to use.



#### Things you can do with provided configuration:

• run and debug python code

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• run and debug tests

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• run and debug migrations or different django management commands

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• and many others ..

### 1.2 Known issues

• Pycharm hangs on "Connecting to Debugger"

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This might be fault of your firewall. Take a look on this ticket - https://youtrack.jetbrains.com/issue/PY-18913

• Modified files in .idea directory

Most of the files from *.idea*/ were added to *.gitignore* with a few exceptions, which were made, to provide "ready to go" configuration. After adding remote interpreter some of these files are altered by PyCharm:

In theory you can remove them from repository, but then, other people will lose a ability to initialize a project from provided configurations as you did. To get rid of this annoying state, you can run command:

\$ git update-index --assume-unchanged beverage\_tasting.iml

#### TWO

# **RUNNING LOCALLY WITH DOCKER**

This project relies heavily on Docker and Docker Compose.

# 2.1 Prerequisites

- Docker
- Docker Compose

# 2.2 Build the App

This command should always be run when something changes either in Dockerfile or in app requirements:

docker-compose -f local.yml build

# 2.3 Run the App

At first build the frontend static files:

docker-compose -f web.yml up --build

Command will build the frontend container and use it to generate static files to /beverage\_tasting/static. Django later collects and serves static files from this directory.

Next step is to actually run Django and PostgreSQL:

docker-compose -f local.yml up

It might be handy to always start services with build options. It is fast when cached and only takes longer when changes occurred. Following command is therefore recommended:

docker-compose -f local.yml up --build

Usually only local.yml file will be used with Docker Compose. You can set environment variable pointing to this file:

export COMPOSE\_FILE=local.yml

Then you can run only:

docker-compose up --build

# 2.4 Executing Management Commands

Run one-off container to perform common Django commands:

docker-compose run --rm django python manage.py createsuperuser

Command will create container with only the Django application and destroy itself afterwards.

# 2.5 Environment Configuration

Configuration files for local environment are located in .envs/.local. Username and password for PostgreSQL in .envs/.local/.postgres might come handy when setting up remote access, e.g. for DBeaver.

#### THREE

### PASSWORDLESS AUTHENTICATION

This app uses passwordless authentication. Advantage of this approach is no need to use any user passwords. This guide will show you the authentication flow.

### 3.1 Obtain a Callback Token

The first step is to obtain a callback token. Callback token is later replaced for the long-lived token. Use following command to obtain it:

curl -X POST -d "email=info@tastebeer.org" https://tastebeer.org/auth/email/

Command above will trigger email sending to the address provided.

**Note:** Local development server does not send real e-mails. Instead e-mail HTML is printed to standard output. Search for login code there.

Warning: Authentication library currently uses only 6-digit callback tokens.

### 3.2 Obtain an Authorization Token

Callback token is short lived (15 minutes) and should be exchanged for authorization token:

Note: This is a moment when user registration took place. User e-mail is connected with given token in database.

# 3.3 Using the Authorization Token

Most of API calls are private, sometimes limited only to the owner user. Provide obtained authorization token to get access to such resource:

```
curl -i -H "Accept: application/json" \
  -H "Content-Type: application/json" \
  -H "Authorization: Token 89ae6b76a9ec140a16ff369ef2f16e77f9b2919b" \
  https://tastebeer.org/api/users/me/
```

FOUR

API

API of this application was created with Django REST framework. It is browsable locally at localhost:8000/api/.

Alternatively use cURL if you have authorization token:

```
curl -i -H "Accept: application/json" \
  -H "Content-Type: application/json" \
  -H "Authorization: Token 89ae6b76a9ec140a16ff369ef2f16e77f9b2919b" \
  localhost:8000/api/
```

API endpoints won't be listed here as they are easily accessible on their own.

# 4.1 List All URLs

Listing all API URLs might be helpful and it can be done easily:

docker-compose -f local.yml run --rm django python manage.py show\_urls

# FIVE

### **TESTING**

This project aims to high coverage and quality of testing.

Run the following command to test the application:

docker-compose -f local.yml run --rm django pytest

### 5.1 Coverage

Run tests with code coverage first:

docker-compose -f local.yml run --rm django coverage run -m pytest

Once finished either run report to see coverage immediately or generate browsable html files:

docker-compose -f local.yml run --rm django coverage report docker-compose -f local.yml run --rm django coverage html

Generated HTML report can be found in coverage\_html\_report.

SIX

# **CODE STYLE**

No specific code style is enforced, but the code must adhere to the rules set by following tools:

- mypy
- Black
- Flake8

# 6.1 Run the Lint Check

Recommended order of running tools mentioned above is as follows:

docker-compose -f local.yml run --rm django mypy
docker-compose -f local.yml run --rm django black .
docker-compose -f local.yml run --rm django flake8

This order makes the most sense because mypy fail requires code adjustments. These are then reformatted with Black if needed and Flake8 confirms change validity according to PEP8 recommendations.

#### SEVEN

# **CONTRIBUTIONS**

Your help with development, testing or documentation is very welcomed. Please, follow this short guide to make the most of it.

# 7.1 Development Contributions

For now it is just a matter of a pull request in our repository.

# 7.2 Documentation Contributions

Any contributions should be either in a form of an issue or a pull request in our repository.

Use following command to generate the documentation locally:

docker-compose -f local.yml run --rm django sphinx-build docs/ docs/\_build/html/

# 7.3 Bug Reporting

Please use issues in our repository to report bugs you found.

Warning: Report any security related bugs to contact@tastebeer.org directly.

# EIGHT

# **INDICES AND TABLES**

- genindex
- modindex
- search