

QA testing setup T3 2022 –

Purpose:

This document has been written for the QA team to assist with setting up and testing parts of the dream big project. This was developed by the T3 team as there has been little guidance or information on setting up for tests.

Intended Audience:

Anyone new to the QA team

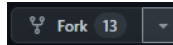
Requirements:

- If you do not already have one, you will need to set up a Git account. You only need a free account [Signing up for a new GitHub account - GitHub Docs](#)
- You will need to setup the development environment as a first step. Up to date instructions on how to do this can be found on the git repository [maddernd/dream-big: Dev DreamBig \(github.com\)](#)
- You will also need VSCode [Download Visual Studio Code - Mac, Linux, Windows](#)

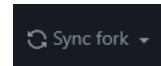
Git setup

Using git, create your own fork of the development repository at. [maddernd/dream-big: Dev DreamBig \(github.com\)](#)

You can do this by going to the git repository on a web browser and clicking the fork button on the right hand side.

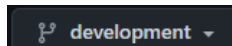


To update your fork with any updates from the main repository click



Important: Ensure that you are using the Development branch

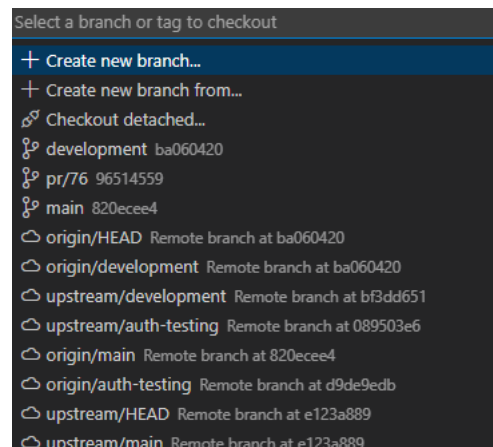
On the browser you can see the dev branch by clicking the branch button and selecting development.



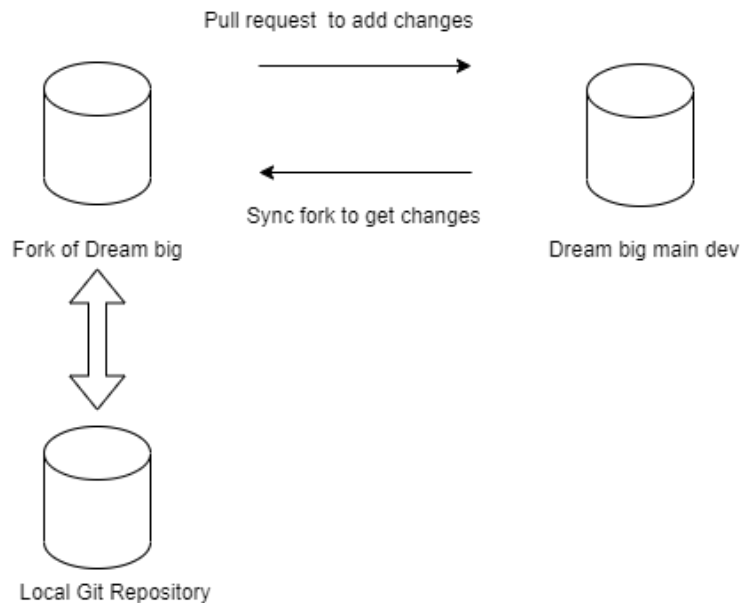
You can also check this in VS code down the bottom left hand side.



The branch can be changed in the source control.



When git is setup, it operates as per the diagram below.



Pull requests

When you have synced your updated files over to your fork you can then apply for a Pull request to update the main repository. You can do this from a web browser under the menu using the

New pull request

button

Pull requests

When submitting a Pull request you must enter in the commit message as per company guidelines which can be found here : [doubtfire-deploy/CONTRIBUTING.md at development · doubtfire-lms/doubtfire-deploy \(github.com\)](#) a short summary is listed below.

```
Commit Message Header
<type>(<scope>): <short summary>
|
|   ↳ Summary in present tense. Not capitalized. No period at the end.
|   ↳ Commit Scope (optional): animations|common|style|forms|http|router|service-worker|
|   upgrade|changelog|dev-infra|docs-infra|migrations|
|   ↳ Commit Type: build|ci|docs|feat|fix|perf|refactor|test
```

Eg. Updating an API test

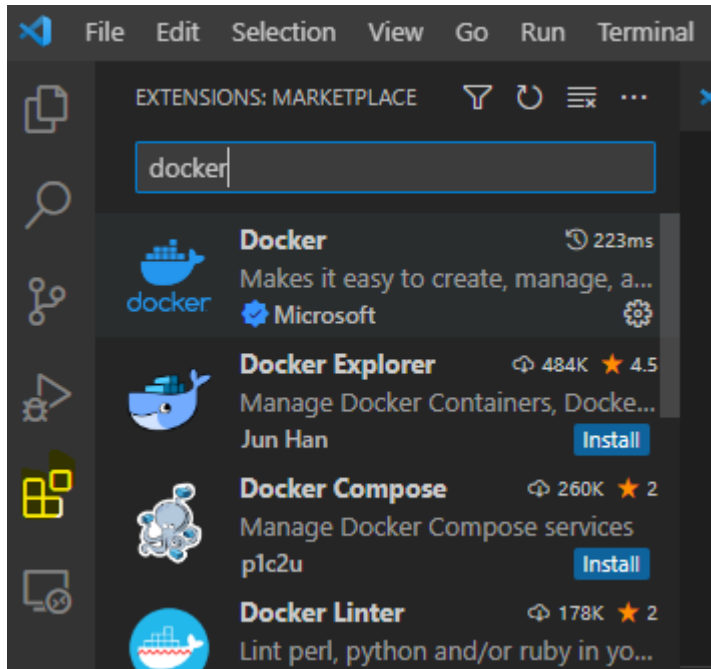
test: update api test to correct error

VS Code

After you have installed VS code open the root folder of the Dream big install you have set up.

Install docker extension

The easiest way to run tests is to utilise the docker extension which can be added to VS code. To do this select the extensions menu item on the left-hand side menu and search for “docker”



Click the **Install** button to install the extension.

Testing file locations:

dream-big-api -> test

models: contains all of the database test files

fixtures: contains all of the yaml (yml) files with the test data.

dream-big-api -> spec

api: contains the api test files.

A list of all the testing and information is stored on the excel file in the QA teams channel.

Running tests

In order to run the tests you use the docker extension inside VS code and “attach shell” to the docker container that you wish to use.

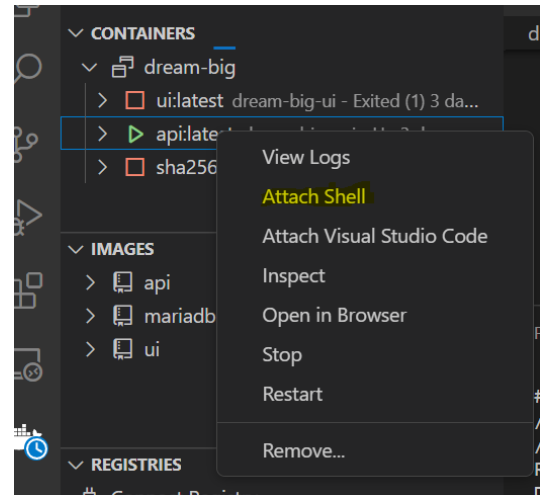
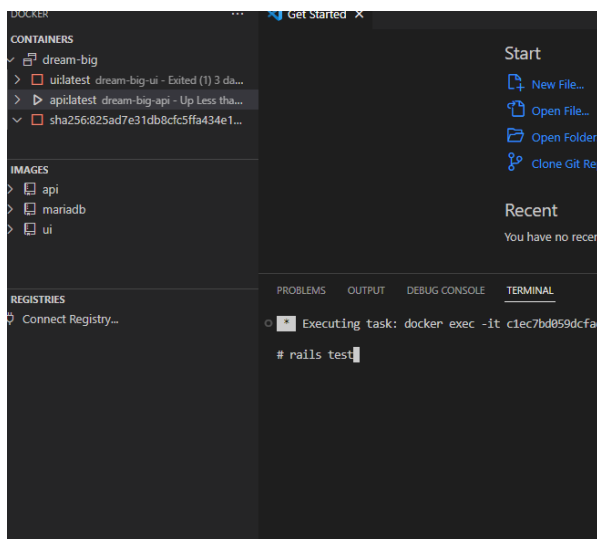
Make sure that Docker desktop is running and that the container that you want to use is started. If it is not started just right click the container and select “Run”

Right click the container and select “Attach Shell”

You should now be able to run rails test.

In the console window type **rails test** (to run all tests)

Alternatively, you can use rails test (test file name) to just run one individual test.



Installing Rspec for testing

The gem for rspec has already been included in the main gemfile but you may still need some additional install steps to get it work.

In the console window type “**bundle install**” this will ensure that you have all the required files to run rspec.

You should now be able to run rspec testing using the shell.