

SUSE Hack Week 2024 - Day 5

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The problem with a failing test was driving me nuts [yesterday](#). And I made a classic Engineer mistake, I didn't take a step back to clear my head and recharge. I continued to work on the same problem till 1 AM, of course without a result, before I gave up. After some sleep and getting back to work with a structured approach, it took me less than 15 minutes today to validate my theory and figure out what the problem was... Damn, I'm happy I found it but all the time I wasted last night... Whatever, chasing the white rabbit and getting a bit lost happens to the best sometimes.

So, what was the issue? I want to know if a method was called with a specific set of args by using `assert_called_once_with`. Visually, the expected and actual values match. But I pass an object of `model.Project` and Mock checks if it's the same instance of the object, not if the content matches. I create a `project` object in my tests, and `pagure.lib.tasks_services.trigger_ci_build()` does the same. Even though the keys and values look identical, there are two different objects and the assertion fails.

To solve it, I have to Mock `pagure.lib.query.get_authorized_project()` and inject the `project` object that's created in the test. Then the whole thing works as I want it. Next step: Refactoring to use `model.PullRequest` object with `access` to all pull request related information instead of `pull_request_id` and `pull_request_uid`.

That worked pretty well, writing the tests before the actual code feels weird at first but today that was a productivity booster. It's much easier to focus on the next feature or refactoring, while I don't have to worry that silently breaks something else. As long the other tests continue to pass, I'm still on track. I tried Test-Driven-Development before, but I guess bad habits came back and I never went all-in with it for a longer session.

This [Pull Request](#) contains the current state and the outcome of my Hack Week project. I finished around 2/3 of what was planned, I hope to get the rest done in the next week or two.

I wrote a lot Python code before, including tests, but a couple days with an intensive focus helped a lot to brush up my knowledge. Good chances that I not waste time with such a stupid problem next time ;) This week re-affirmed that my passion is solving problems and writing code. I hope I can do that more regularly in future and have the opportunity to free up time and attend SUSE Hack Week 25 as well.