

Documentation SLM 2023 RetroRealTTT

authors

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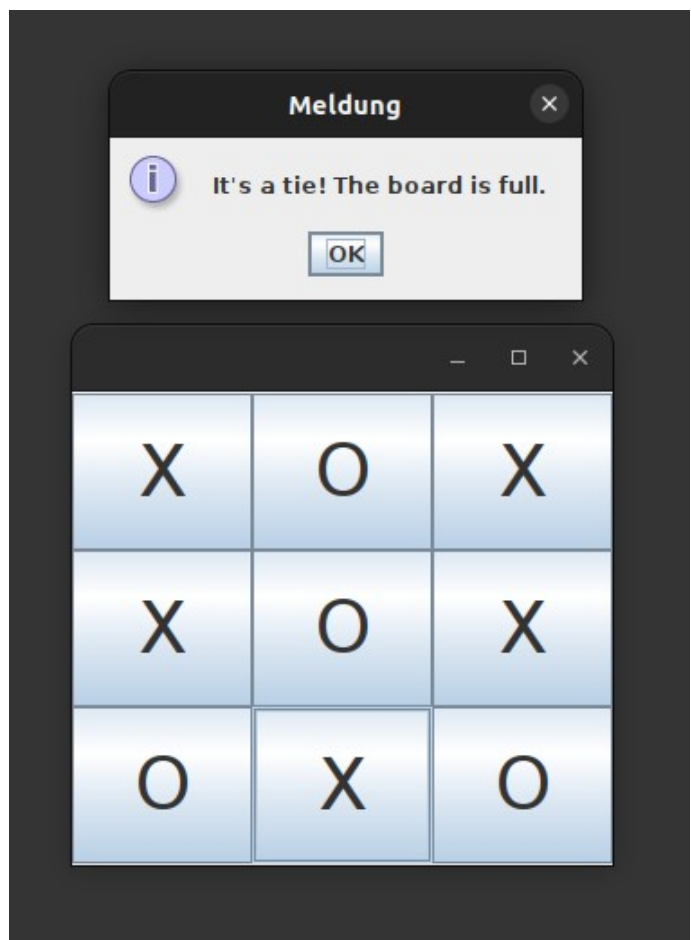
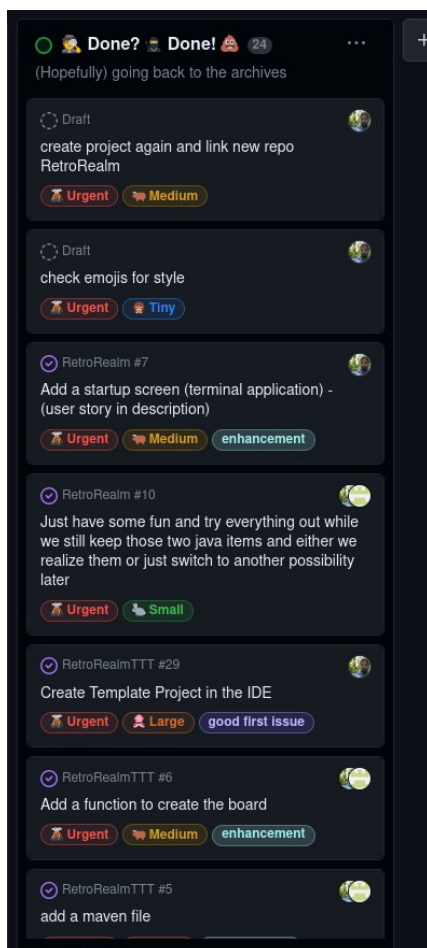
1. Introduction

The task has been, to implement a TicTacToe game **using GitHub workflows** and to have a nice **project structure and workflows**.

The following paragraphs portray the process of this project

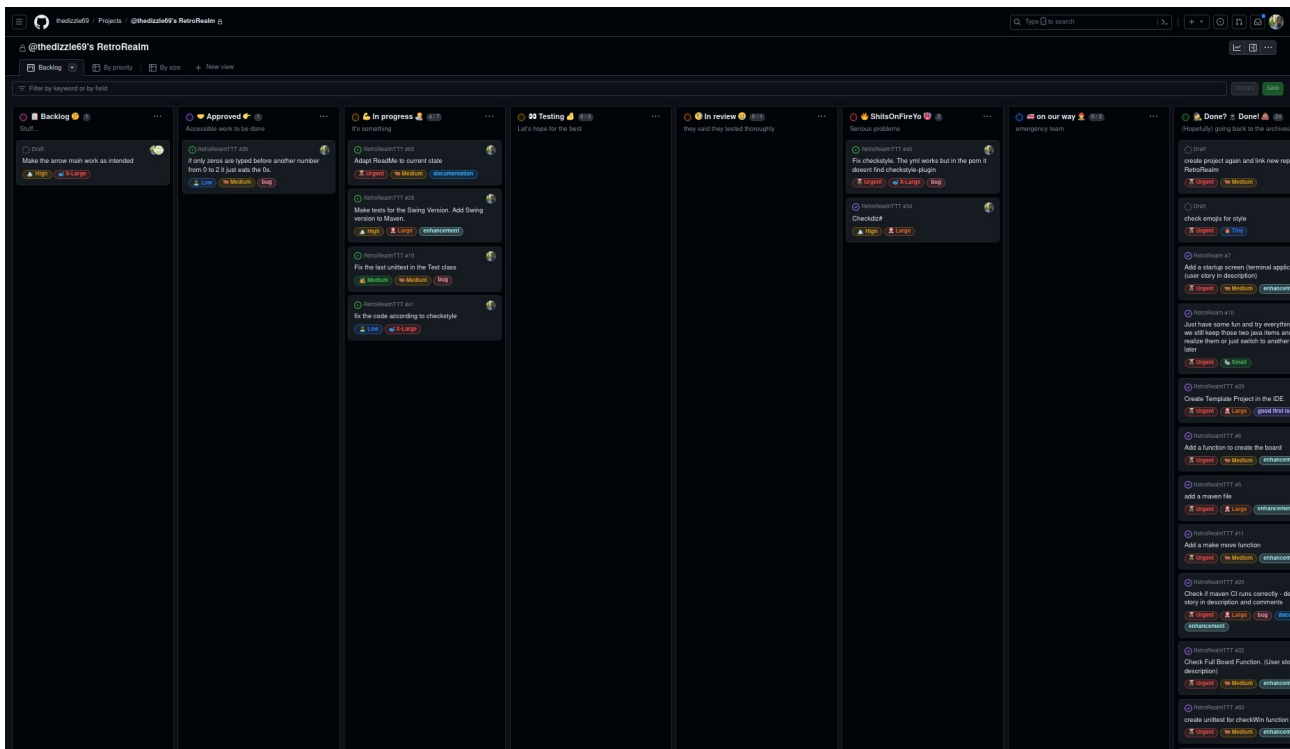
2. In the beginning

The first thing to do was to **create a github project**... so we did that. In the following we will refer to the different stages and tasks:



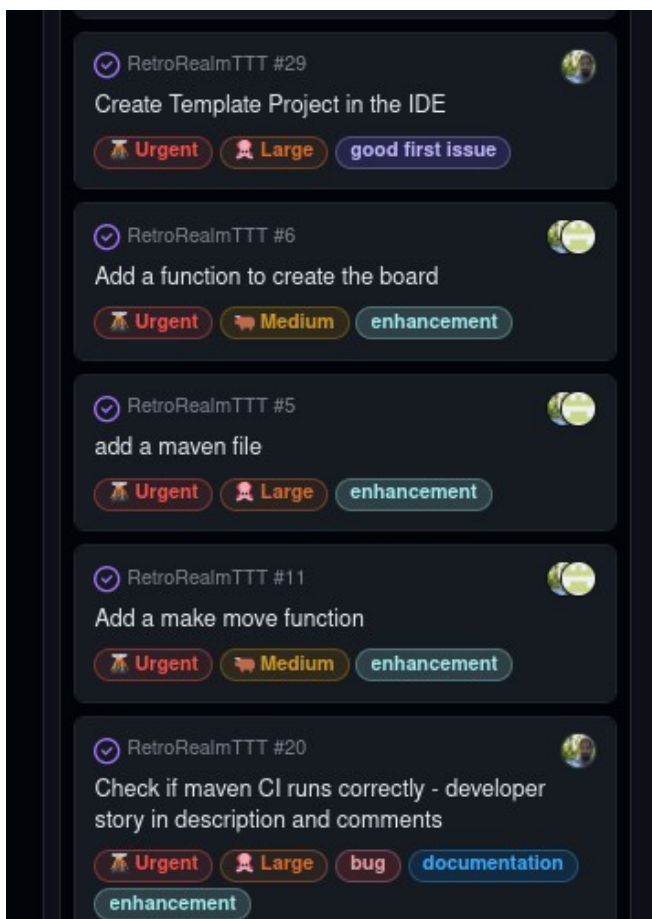
The first tasks were to link the repo and most importantly to have a structured project. Columns for every step of the project were created (and obviously emojis were added to make it look nicer).

Screenshot of the **whole project** (a little bad to read as I had to zoom out)

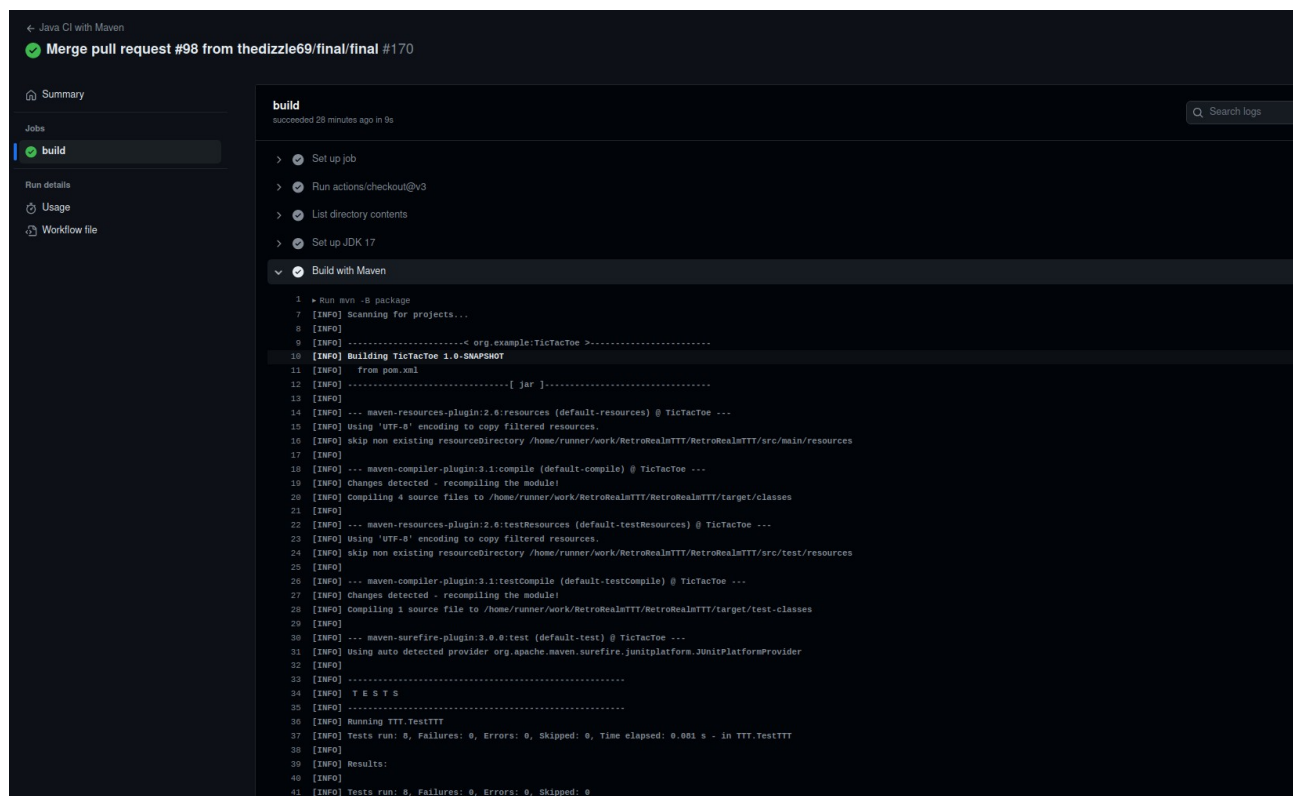
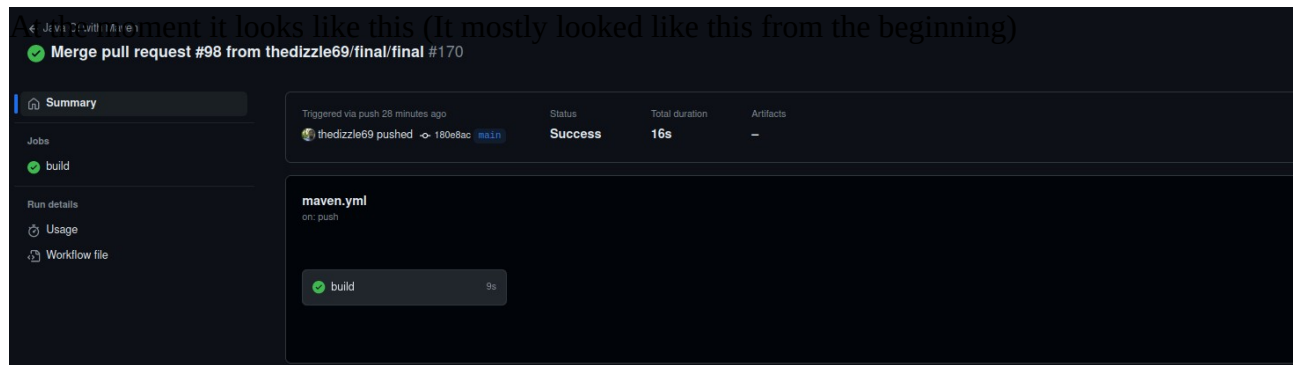


Let's skip the part where everyone was advised to just get to know git and have fun. We then **created a functioning Repo and made a template maven project** in the IDE and pushed that thing.

Now we started to implement the **first functions** and also created the first maven job as seen below:



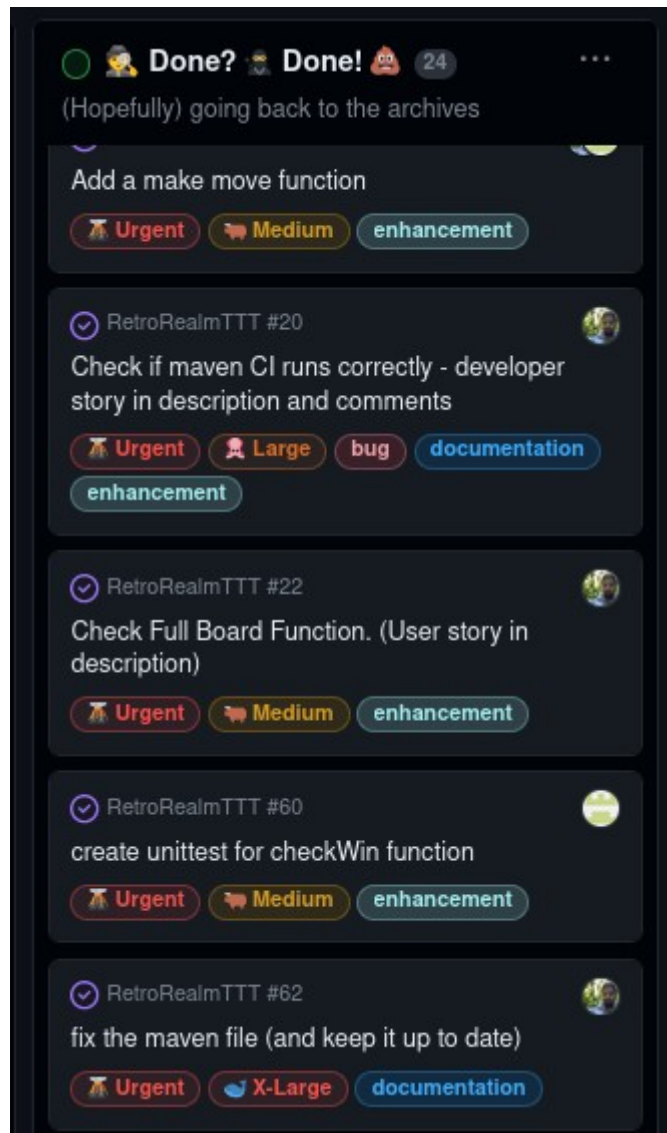
The new **auto job** called **maven.yml** made sure that on every pull, the project gets checked for build errors.



Also we had to make sure that the test file will be included. As seen it is included and runs all tests before finishing the job:

3. Developing

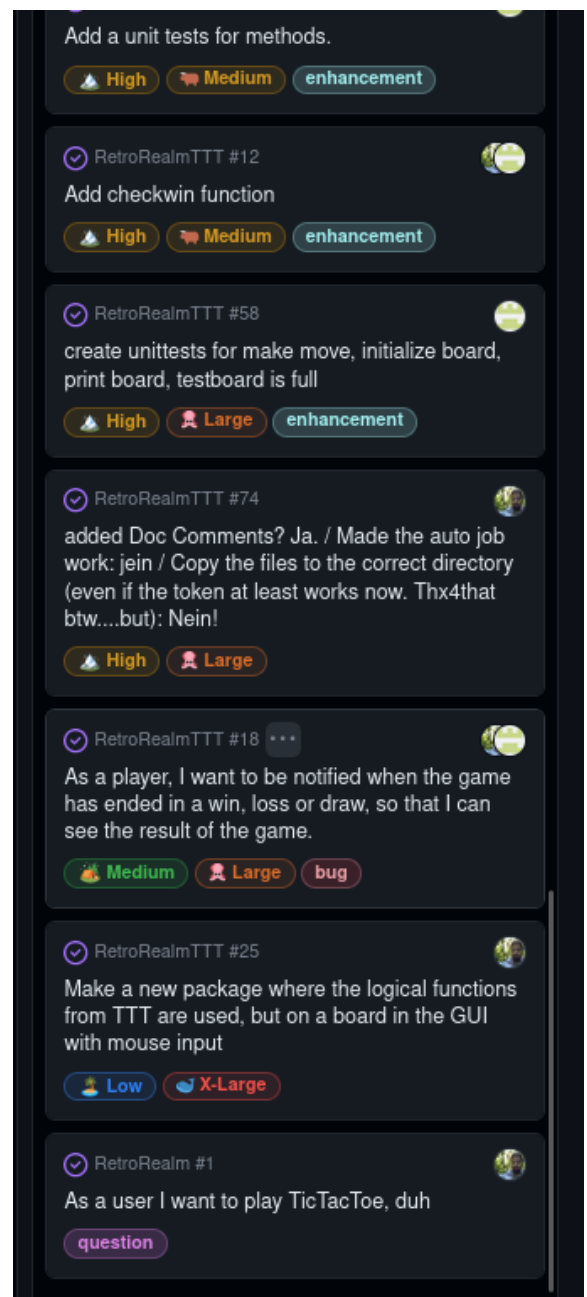
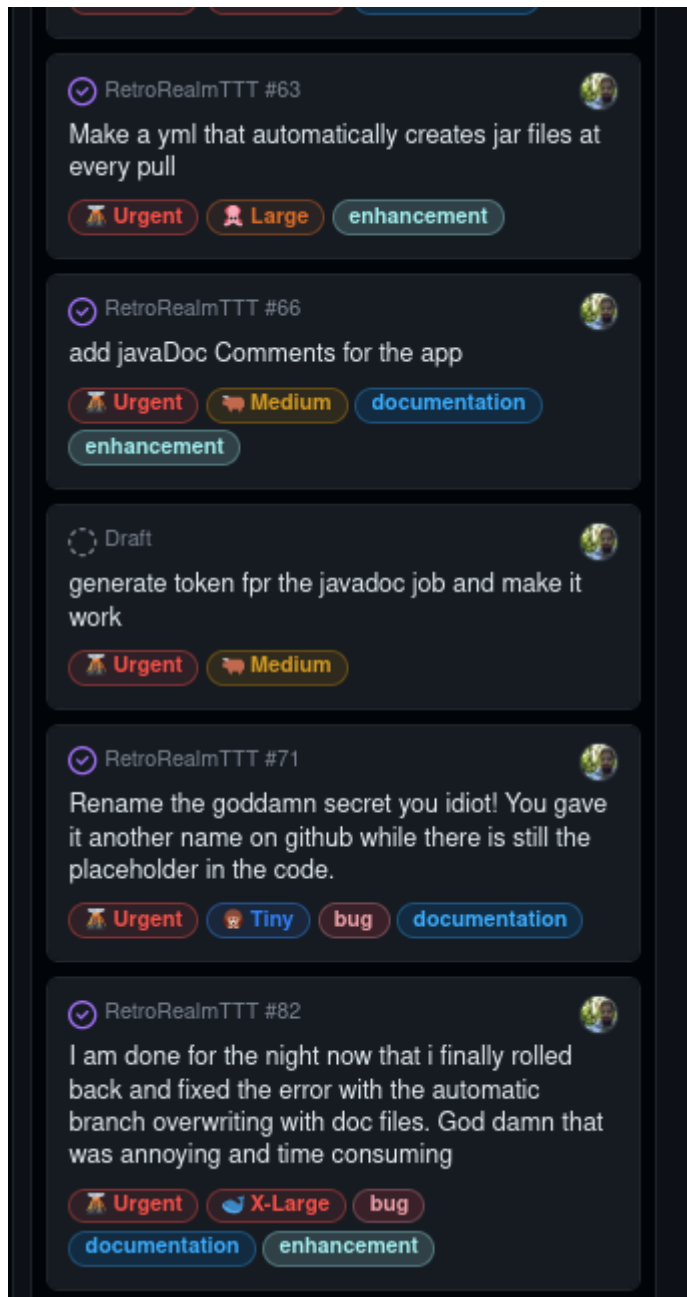
As we now were good to go, we **implemented functions for the app** itself, checked them for build errors and wrote **test files** (they are located in the src directory parallel to the main folder)



While making the program itself we included **functions, tests, JavaDoc comments, and also implemented a GUI Version which runs on Java Swing** (way better than the fucked up terminal app. My C java is terminal but 1000 times better than this crap)

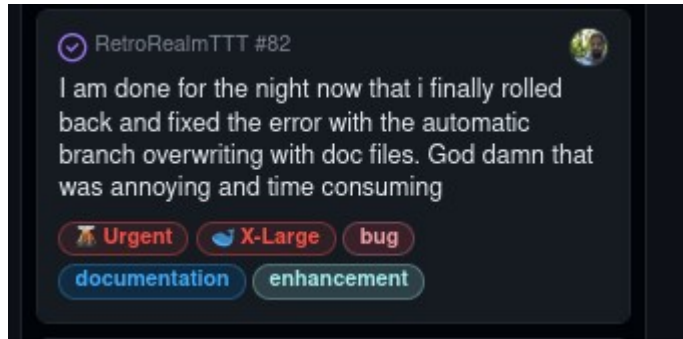
4. Developing Jobs (workflow .ymls) (jar job, javadoc job, checkstyle job)

But there were a few jobs to be done still. So we created workflows which export our newly made JavaDoc.comments, compile the respective files to differentiate between the 2 apps and only compile the needed files and then copy it into a specific folder. There is a folder for the docs (/docs) and a folder for the execs (jar) in which only the wanted files get copied too. Also we made a gh-pages branch where we deploy our docs.

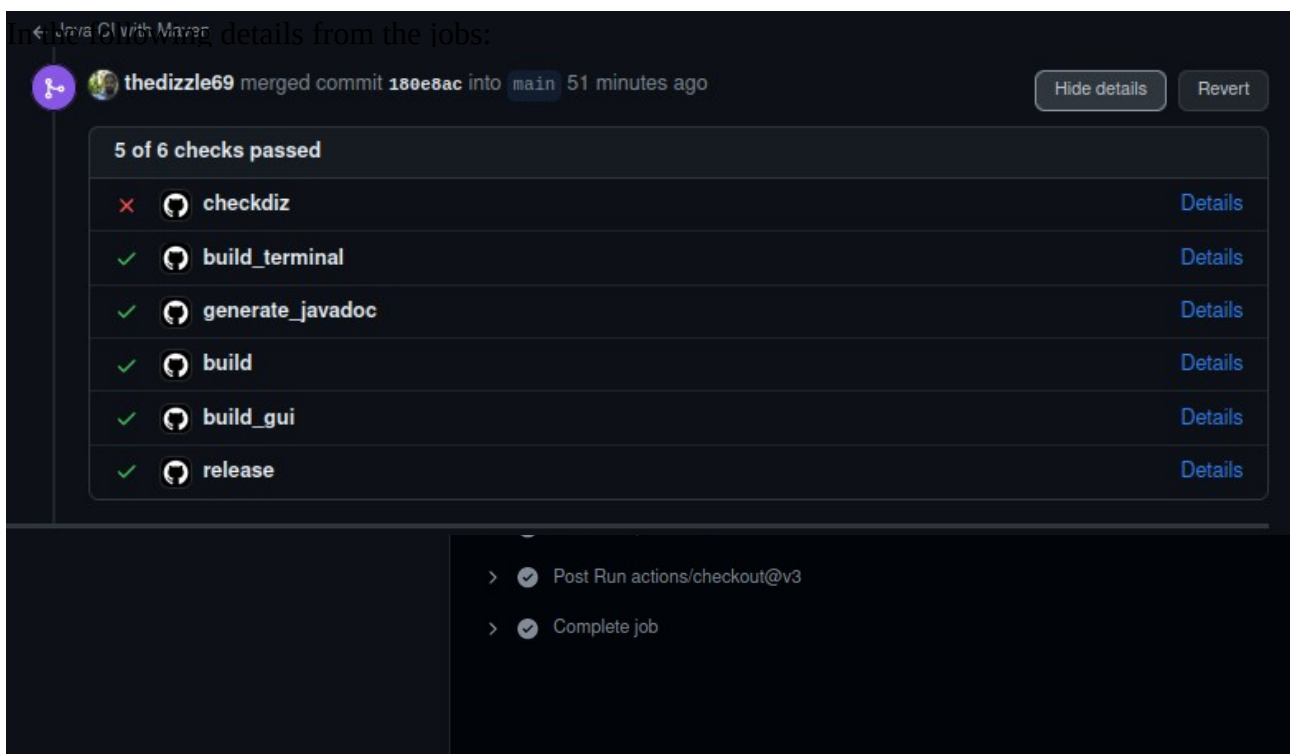


5. Finishing

The **jobs worked out pretty well**, even if some of them were a pain in the ass, (and one fucking job overwrote the whole structure, so we've had to **roll back. But manually** and using another branch. The default branch wouldn't use our git anymore, so it was hours of trying to find a workaround to roll back in a sensible way!!!)



Well. I am drifting away. As said. **The jobs work very well**, and in the logs one can see that **everything runs as expected** (the checkstyle fails but this is expected as the job is not customized, but uses standard values like „80 symbol line length“):



In the following the detailed jobs:

maven.yml build job and javadoc.yml javadoc job:

← Build and Release JARs

✓ added readme and howto use java #73

Summary

Jobs

- ✓ build_terminal
- ✓ build_gui
- ✓ release

Run details

- Usage
- Workflow file

Triggered via pull request 1 hour ago

thedizzle69 opened #98 `final/final`

Status	Total duration	Artifacts
Success	29s	2

build.yml
on: pull_request

✓ build_terminal 6s

✓ build_gui 10s

✓ release 2s

> ✓ Complete job

generate_javadoc
succeeded 1 hour ago in 8s

- > ✓ Set up job
- > ✓ Checkout code
- > ✓ Set up Java
- > ✓ Generate Javadoc
- > ✓ Move Javadoc to Directory
- > ✓ Upload Javadoc to GitHub Pages
- > ✓ Post Set up Java
- > ✓ Post Checkout code
- > ✓ Complete job

build.yml jar job and checkdiz.yml checkstyle job:

← Build and Release JARs

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Summary

Jobs

- ✓ build_terminal
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- ✓ release

Run details

- Usage
- Workflow file

Triggered via pull request 1 hour ago

theDizzle69 opened #98 `final/final`

Status

Success

Total duration

29s

Artifacts

2

build.yml

on: pull_request

✓ build_terminal

6s

✓ build_gui

10s

→

✓ release

2s

Actions

New workflow

All workflows

Build and Release JARs

Checkdiz

Generate and Deploy Javadoc

Java CI with Maven

pages-build-deployment

Management

- Caches
- Deployments
- Runners

Checkdiz

checkdiz.yml

123 workflow runs

✗ Merge pull request #98 from theDizzle69/final/final

Checkdiz #123: Commit 180e8ac pushed by theDizzle69

main

✗ added readme and howto use java

Checkdiz #122: Pull request #98 opened by theDizzle69

final/final

✗ Delete README.md

Checkdiz #121: Commit d022381 pushed by theDizzle69

main

✗ Merge pull request #97 from theDizzle69/final/final

Checkdiz #120: Commit 3bcfb04 pushed by theDizzle69

main

✗ changed secret

Checkdiz #119: Pull request #97 synchronize by theDizzle69

final/final

✗ changed secret

Checkdiz #118: Pull request #97 synchronize by theDizzle69

final/final

✗ changed secret

Summa summarum: I think the project is done well according to the tasks given. Now have fun to read all that.