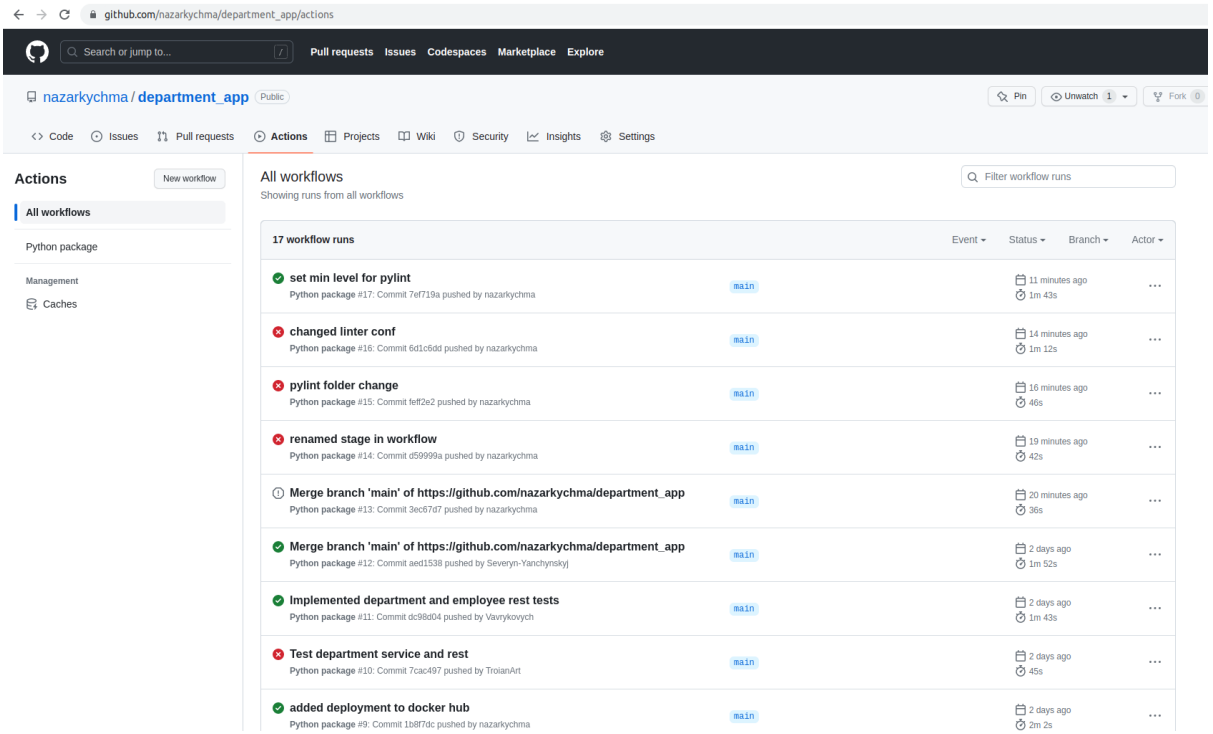
Our team has used Github Actions to create CI pipeline.

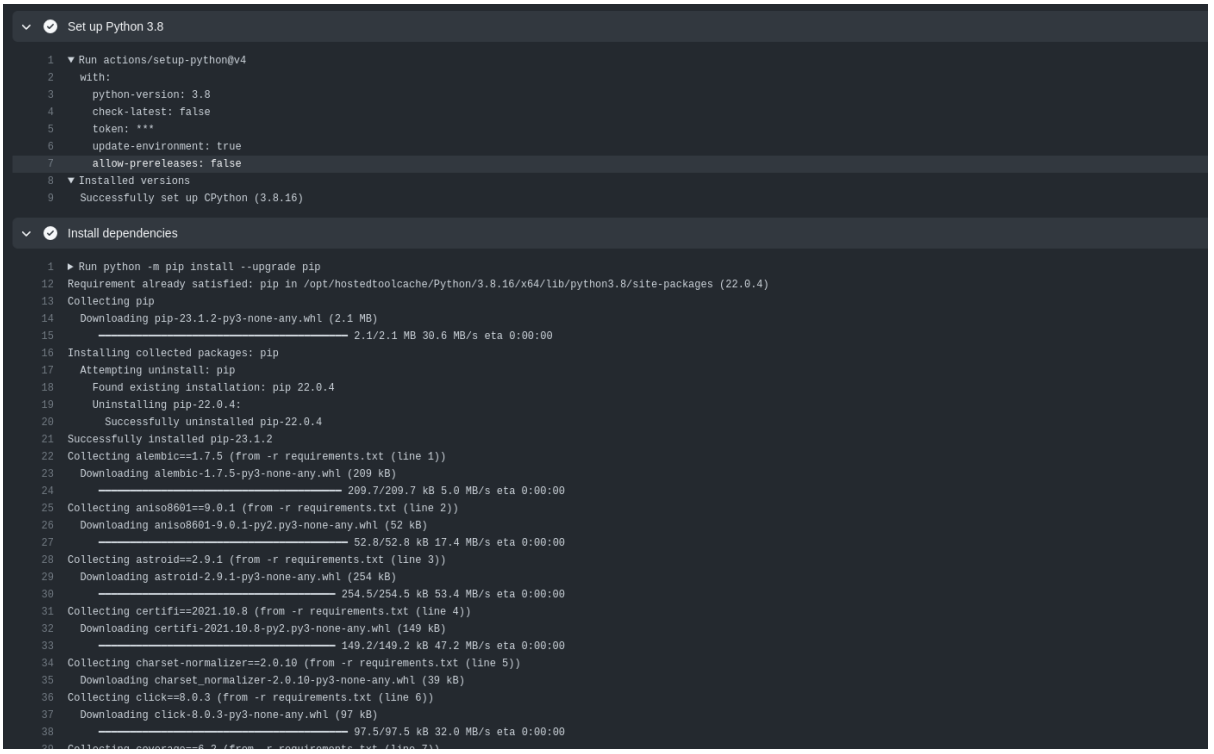


Pipeline itself can be found here https://github.com/nazarkychma/department_app/blob/main/.github/workflows/main.yml

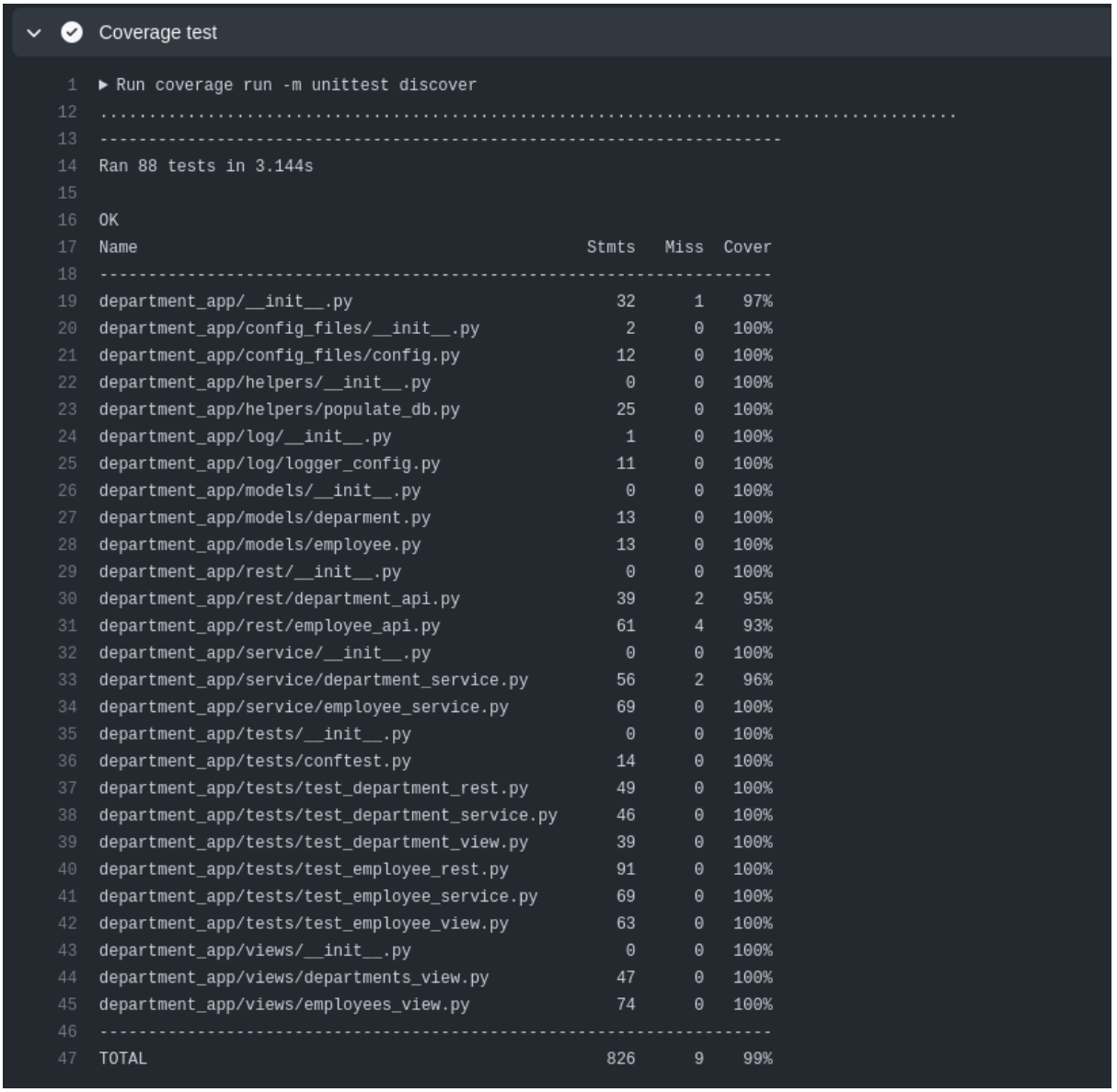
Pipeline is being triggered whenever commit is made to any branch.

It basically consist of this stages:

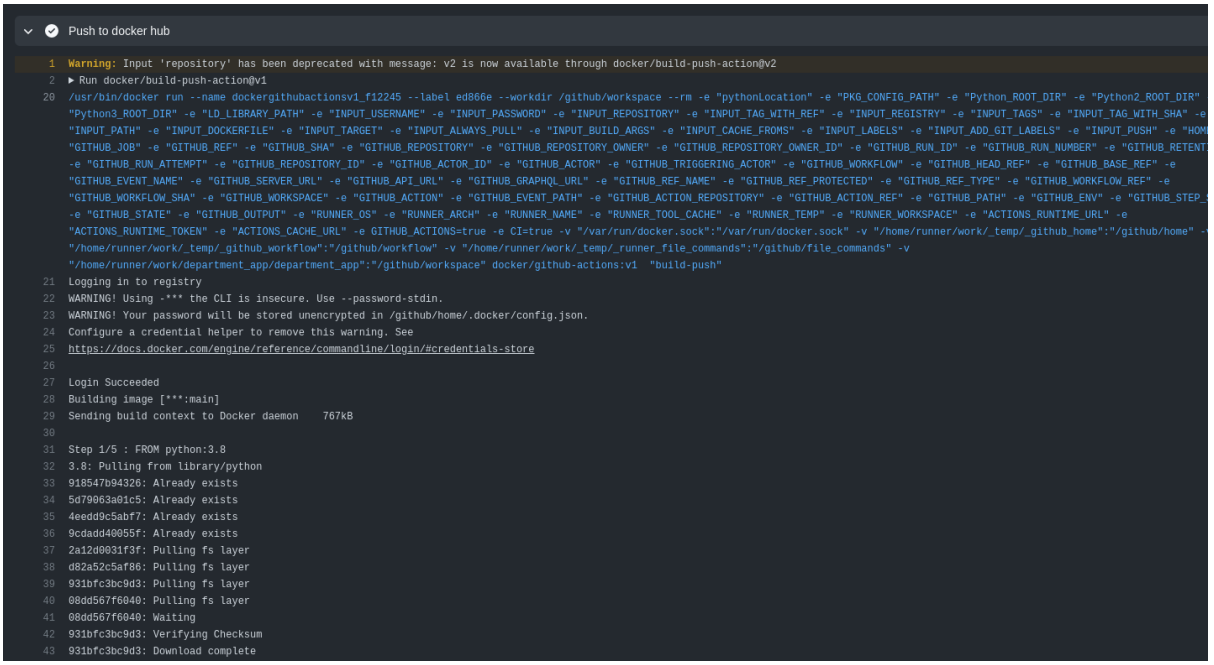
1) Setting up an environment
   Firstly it installs Python3 and then installs project requirements, which are listed in requirements.txt file.

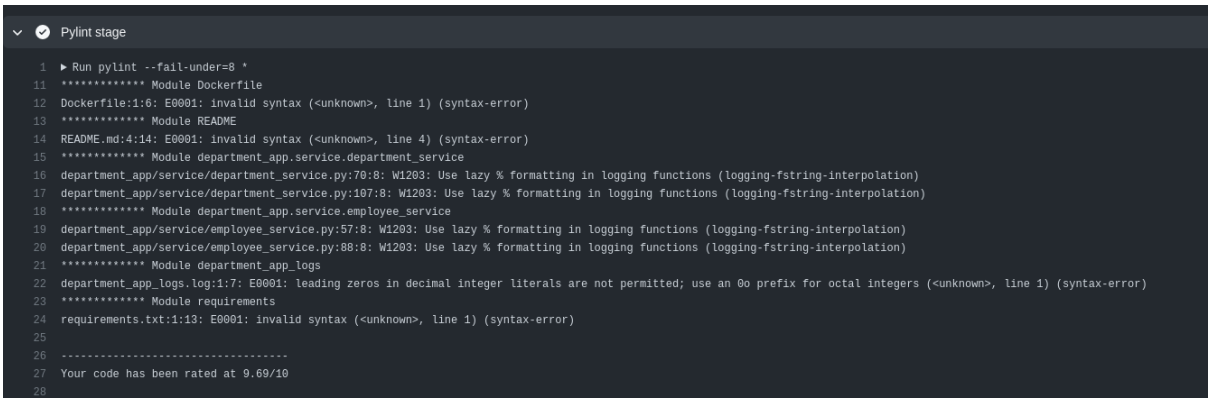


2) Then it automatically runs unit tests from task 2 and reports the coverage of code. If coverage is less than 90%, the workflow will fail and the new build will not be published.



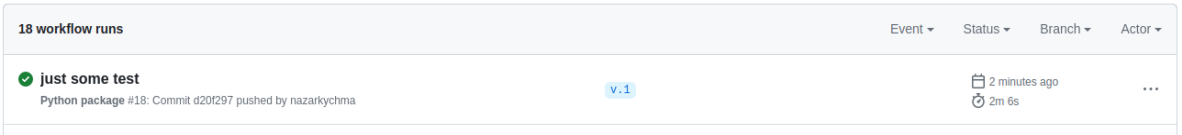
3) Next stage is linter. We are using pylint to check our code quality. If the code is rated at less than 8 out of 10, the workflow will fail and the new build will not be published.





4) The last stage is docker image build and publishing to docker hub (https://hub.docker.com/repository/docker/nazarkychma/department_app/general). As far as our project is written using python, there is no build stage, but you can see build details of docker image.

Tag (or version) of image is being matched with a branch name, so for example if we want to create version v.1.0.2, then we should create a branch with the same name.



Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
v.1		Image	---	a few seconds ago
main		Image	---	22 minutes ago

See all

Go to Advanced Image Management