Agile Processes

Group Project

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A logo of a person running on a keyboard

Description automatically generated

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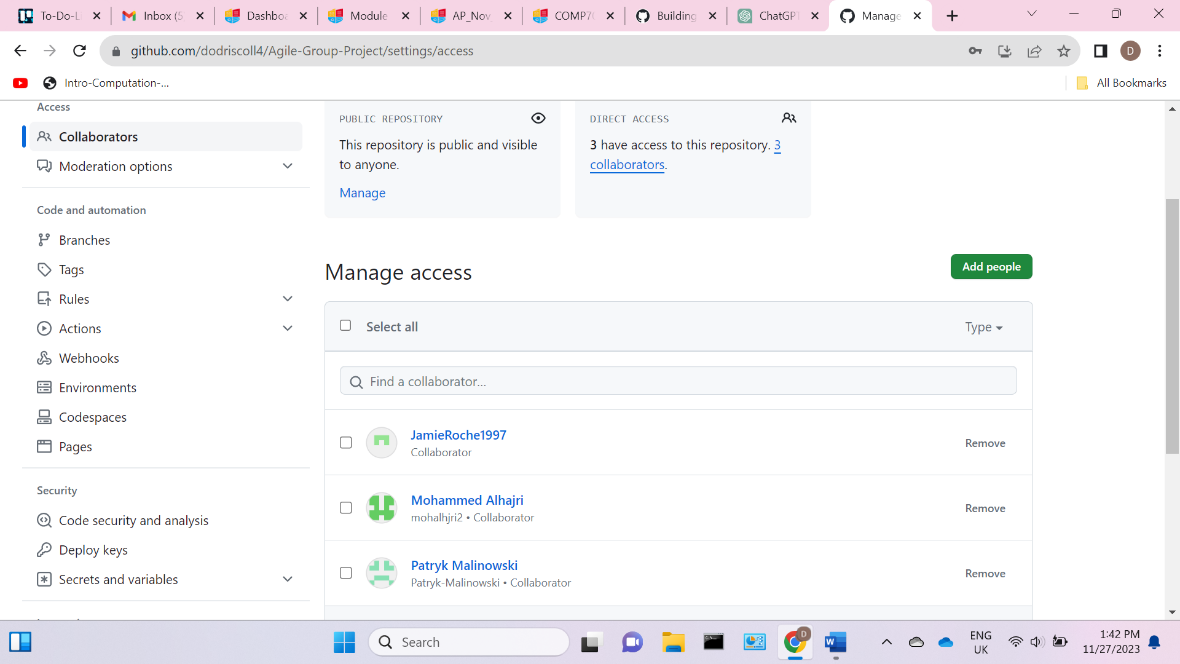
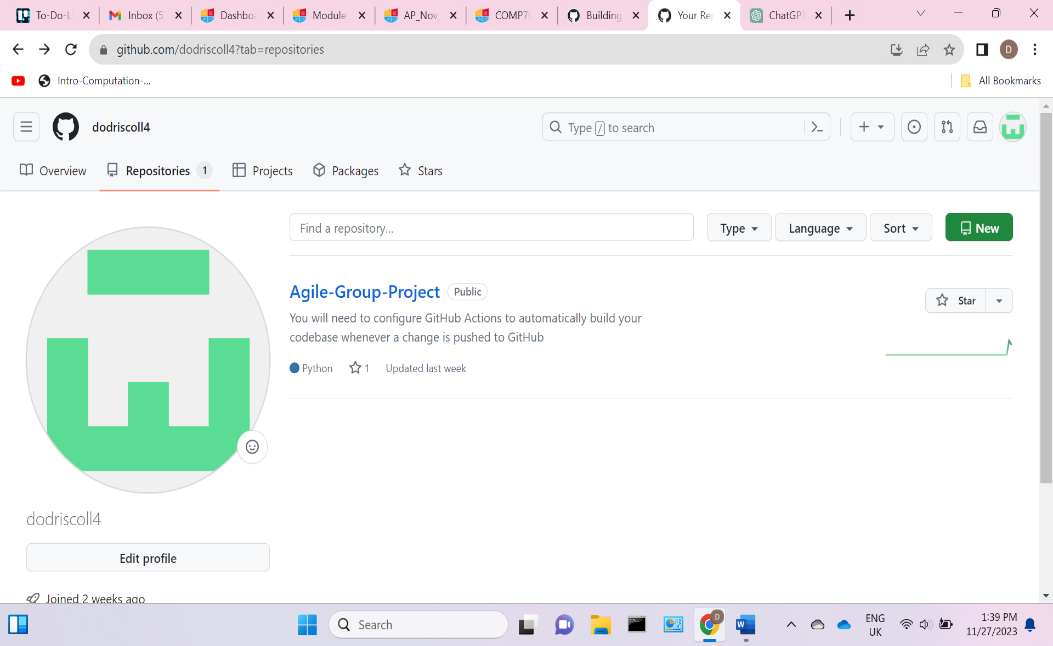
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# Introduction

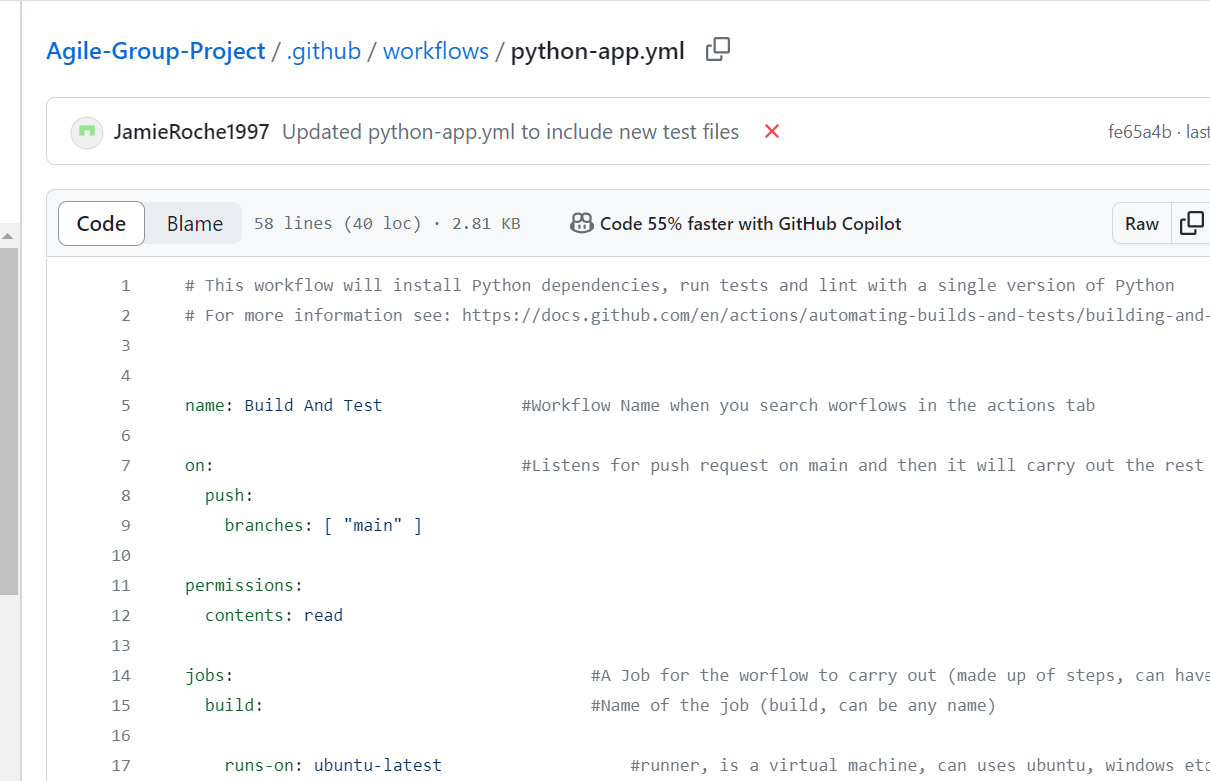
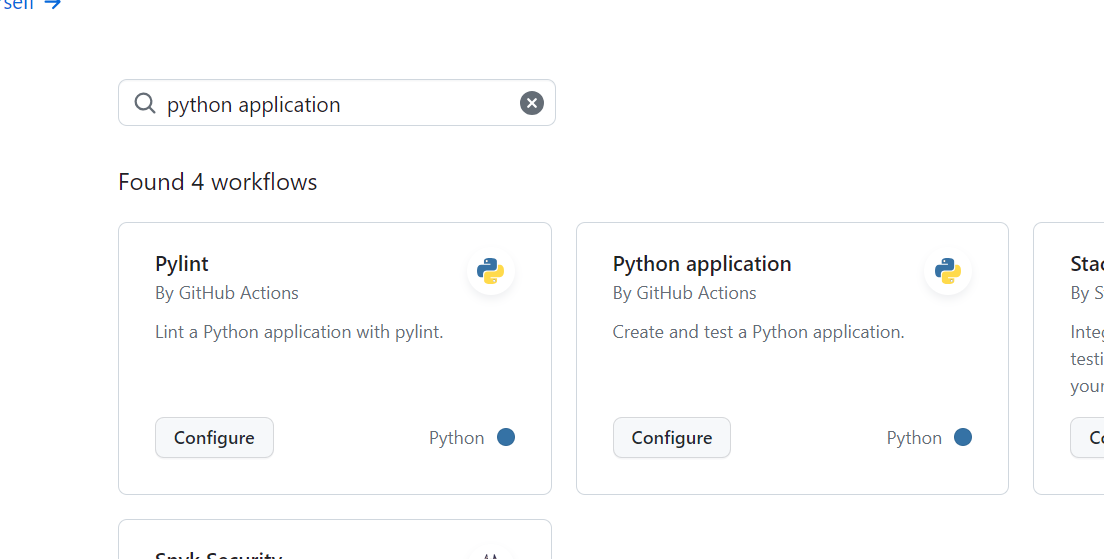
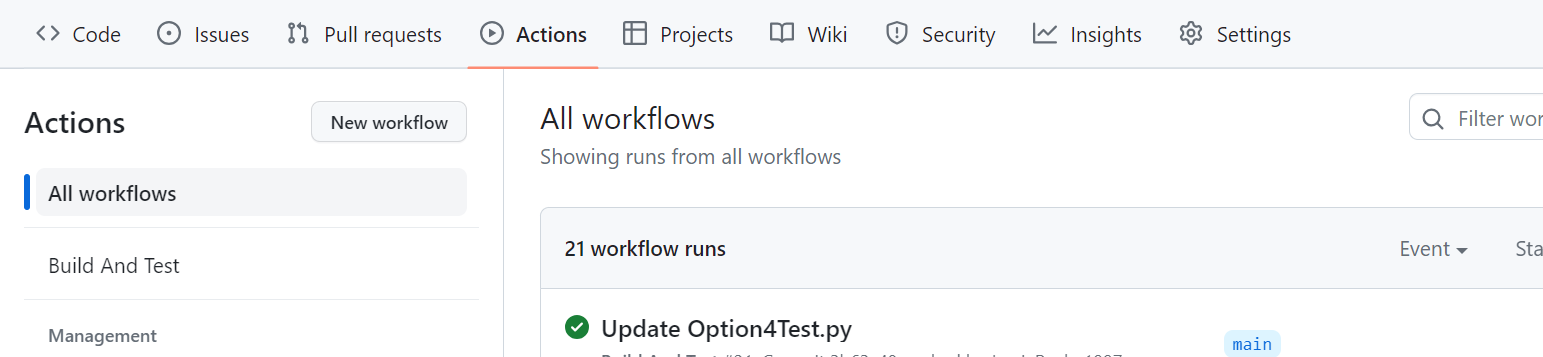
The goal of this group project was to investigate the usefulness of the GitHub Actions continuous integration facility to a group of software developers. For this project we created a continuous integration workflow specifically for a python project.

# Setup

Firstly, it was necessary to setup a shared repository on GitHub for our python project. This was simply done by creating a new repository, followed by settings, the collaborators tab and inviting other group members to the repository. Each member can then set up their own local repository on their local machine where they can make push and pull requests for the python project.



Next, we needed to create a GitHub Actions workflow for our repo. This was done by clicking actions, create new workflow and finding the python application workflow that is pre-built for GitHub Actions. This means that python dependencies are already included allowing us to run and test our python code through GitHub Actions. The workflow created will automatically run tests and linting operations with each push to the repo. We can then configure the workflow using the YAML language on the python-app.yml file.



Now with our shared repo setup on GitHub with our python workflow created, it was time to configure the process in which the workflow executes as well as uploading our python codebase, test files and text files.

# Configuration

To begin our configuration, each group member had to download all necessary text files as well as the python codebase needed for the project. This allowed for each member to edit and change pieces of code related to their designated piece of work on the codebase file. Once each member was happy that the code works fine, a test file for that function or code was then created and tested locally. With both the code base file and test file working, the codebase file was then pushed to update the repo for the incoming test file. Then the test file is pushed and added to the workflow where it runs previous tests if any to ensure correct code and functionality on each push. GitHub Actions tells the user if a correct or incorrect push has been made as seen below.

