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CS 472-1001
February 12th, 2024

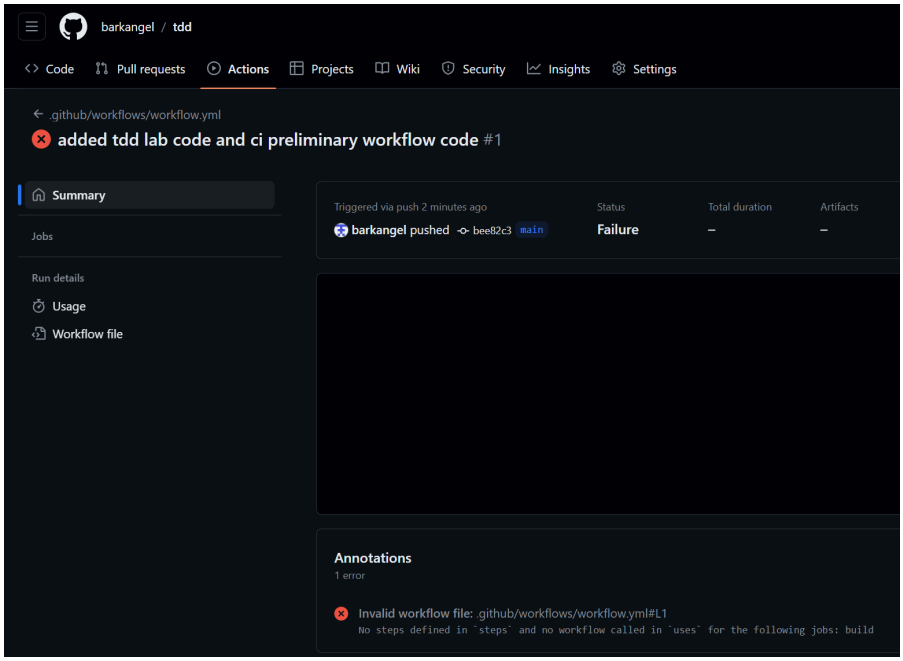
Report - Continuous Integration

Fork repository: https://github.com/barkangel/tdd

Task 1: Adding workflow github folder and creating new repository

- Workflow preliminary code

- Error proof: (repo name at top)



Task 2:

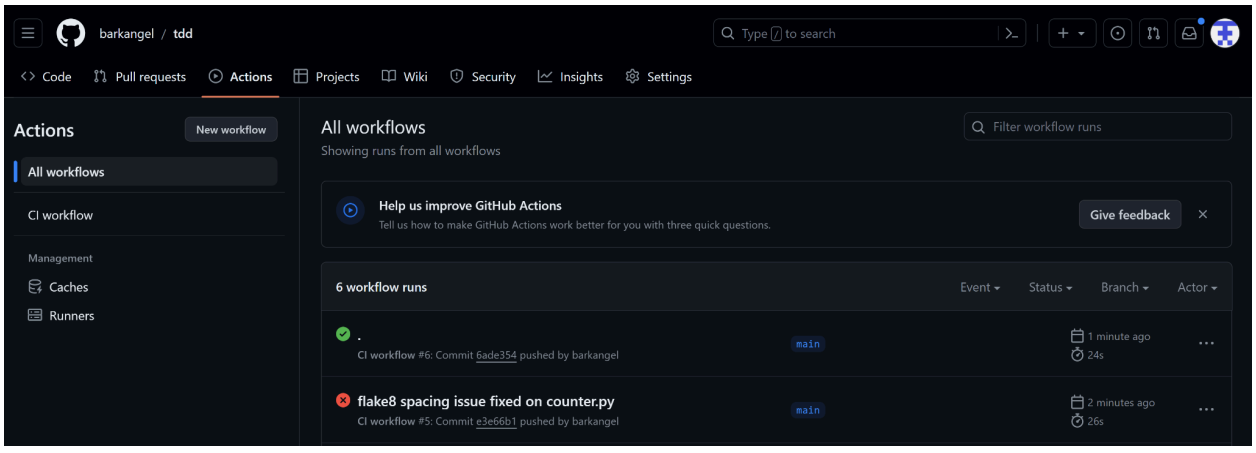
- Updating workflow.yml to include new jobs:

workflow.yml | counter.py

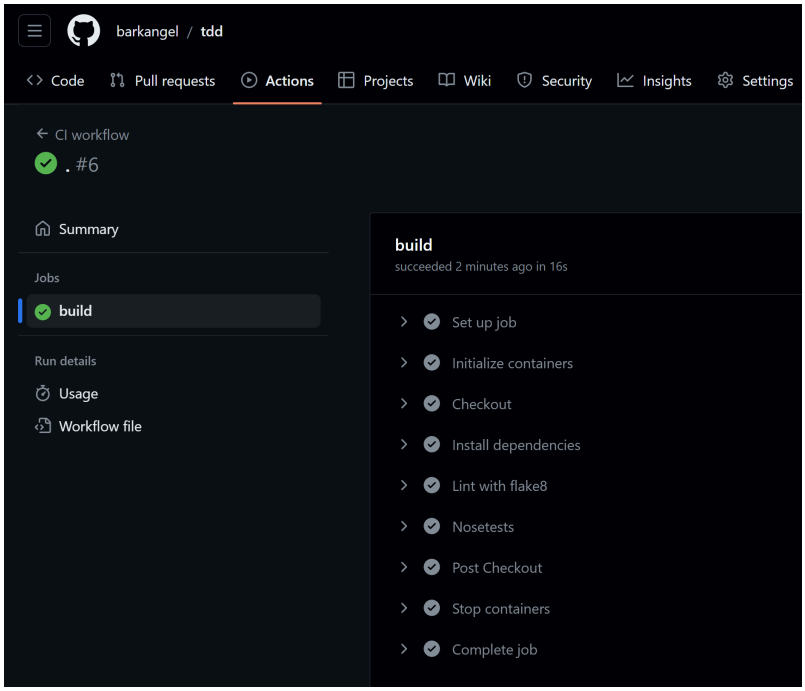
.github > workflows > workflow.yml

```yaml
name: "CI workflow"

on:
    push:
        branches:
            - main
    pull_request:
        branches:
            - main

jobs:
    build:
        runs-on: ubuntu-latest
        container: python:3.9-slim
        steps:
            - name: Checkout
              uses: actions/checkout@v3
            - name: Install dependencies
              run: |
                python -m pip install --upgrade pip
                pip install -r requirements.txt
            - name: Lint with flake8
              run: |
                flake8 src --count --select=E9,F63,F7,F82 --show-source --statistics
                flake8 src --count --max-complexity=10 --max-line-length=127 --statistics
            - name: Nosetests
              run: |
                nosetests -v --with-spec --spec-color --with-coverage --cover-package=app
```

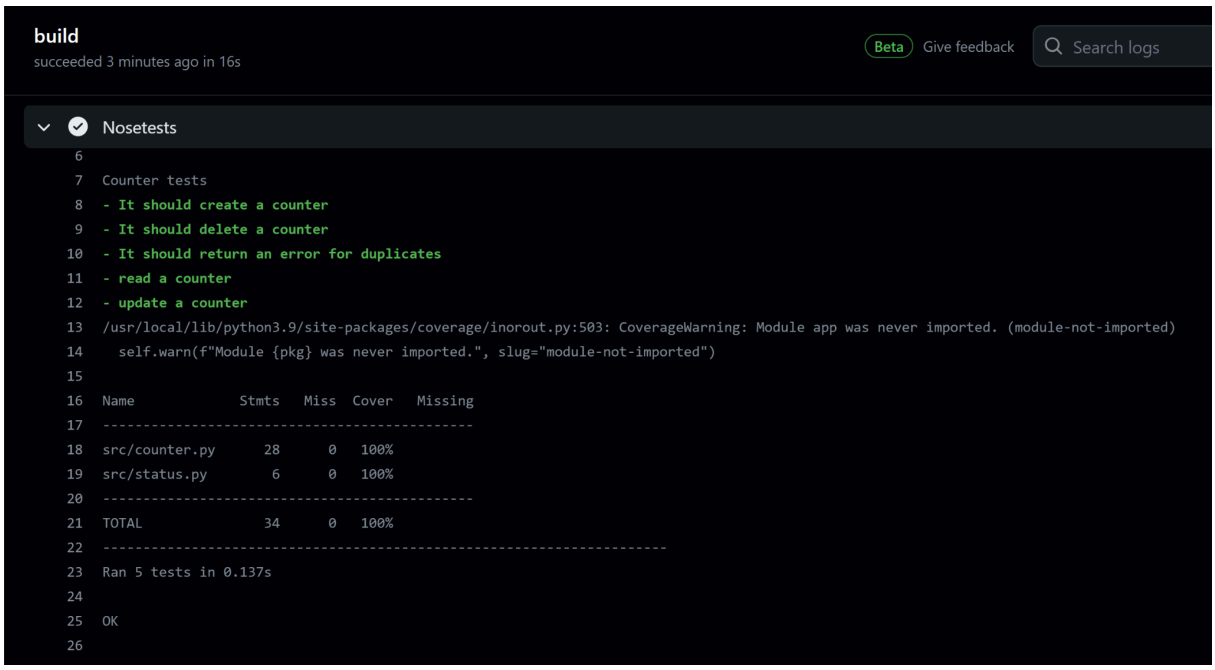
- Running jobs on Github actions from workflow.yml (repo name at top)



- Successful builds: (repo name at top)



- Run unit tests with nose, which I named “Nosetests”:



- Adding delete cases

Creating test_delete_a_counter(self) in test_counter.py:

```
def test_delete_a_counter(self):
    """It should delete a counter"""
    result = self.client.post('/counters/toBeDel')
    self.assertEqual(result.status_code, status.HTTP_201_CREATED)

    delResult = self.client.delete('/counters/toBeDel')
    self.assertEqual(delResult.status_code, status.HTTP_204_NO_CONTENT)
```

We are now in **RED** stage, because our new test case fails.

Creating delete_counter(name) in counter.py:

```
@app.route('/counters/<name>', methods=['DELETE'])
def delete_counter(name):
    app.logger.info(f"Request to delete counter: {name}")
    if name in COUNTERS:
        COUNTERS.pop(name)
        return {name: name}, status.HTTP_204_NO_CONTENT
```

We are now in **GREEN** stage, because we have written minimum amount of code to pass test.