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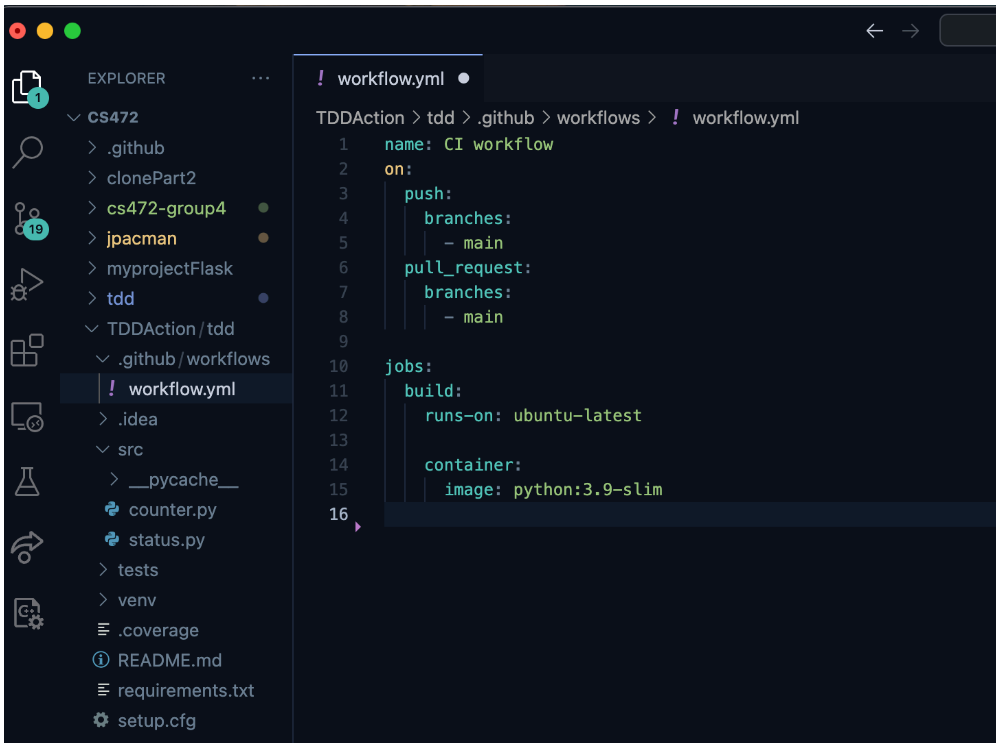
CS472
Feb 10, 2024
https://github.com/junxjr/tdd

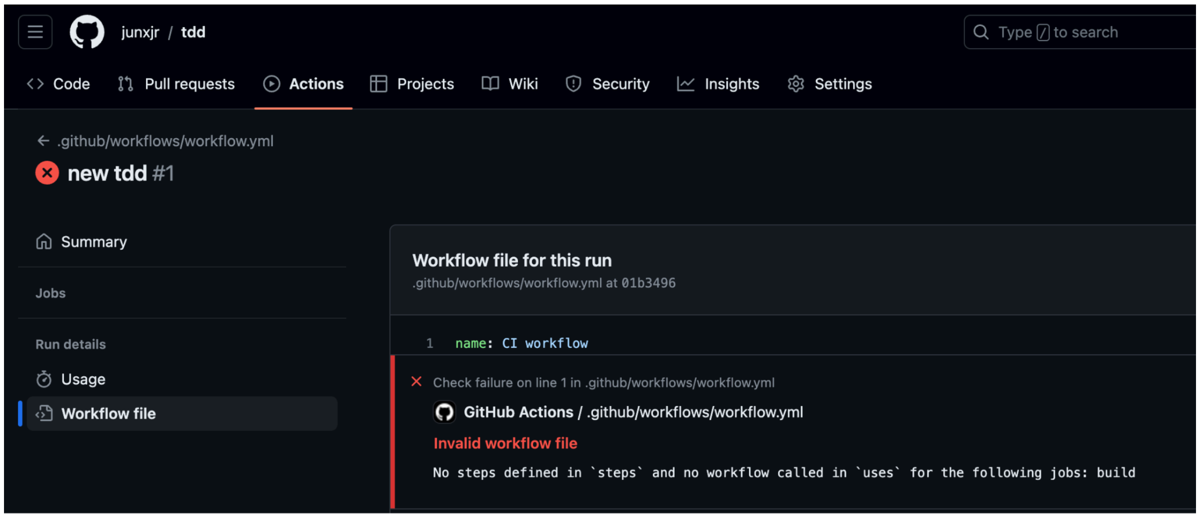
Continuous Integration Report

Task 1:

For this task, I followed all the instructions, and created workflow.yml. After I pushed the file to github, the actions tab failed as stated. Here are screenshots of my workflow and action tab.



```
name: CI workflow
on:
  push:
    branches:
      - main
  pull_request:
    branches:
      - main

jobs:
  build:
    runs-on: ubuntu-latest

    container:
      image: python:3.9-slim
```



Workflow file for this run
.github/workflows/workflow.yml at 01b3496

```
name: CI workflow
```

Check failure on line 1 in .github/workflows/workflow.yml

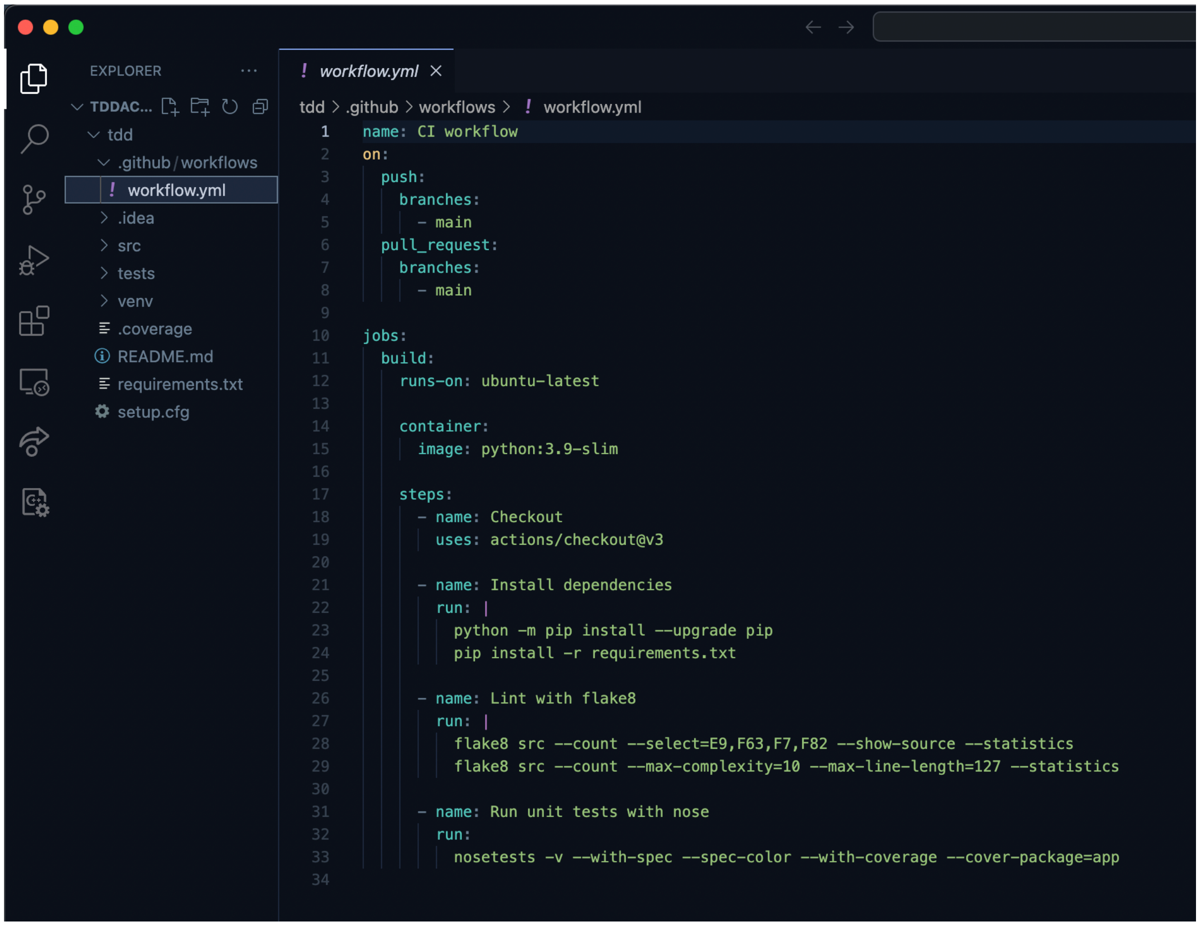
GitHub Actions / .github/workflows/workflow.yml

Invalid workflow file

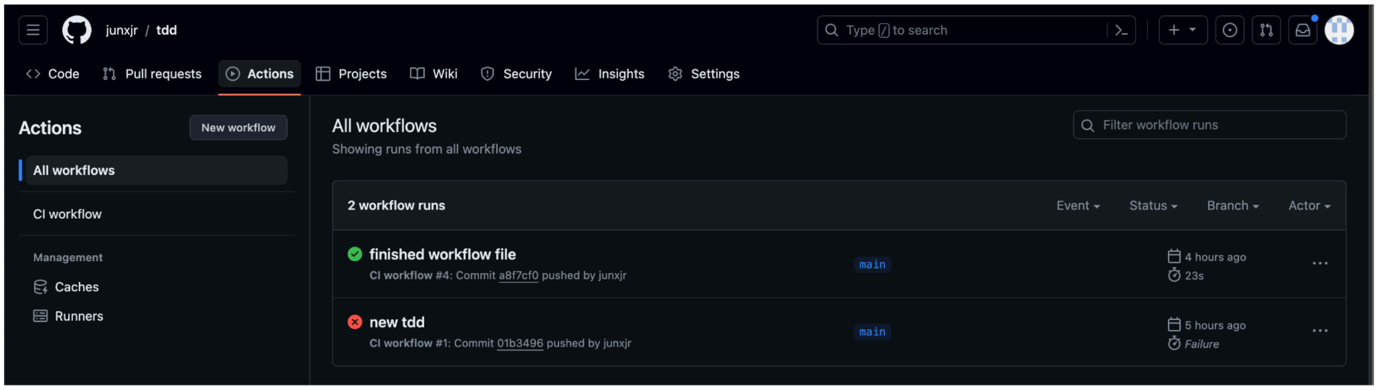
```
No steps defined in `steps` and no workflow called in `uses` for the following jobs: build
```

Task 2:

Moving on to task 2, I simply followed the instructions and added the steps. After I pushed my workflow to github, my actions passed successfully.



```yaml
name: CI workflow
on:
  push:
    branches:
      - main
  pull_request:
    branches:
      - main

jobs:
  build:
    runs-on: ubuntu-latest

    container:
      image: 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: Run unit tests with nose
        run:
          nosetests -v --with-spec --spec-color --with-coverage --cover-package=app

```



All workflows
Showing runs from all workflows

2 workflow runs

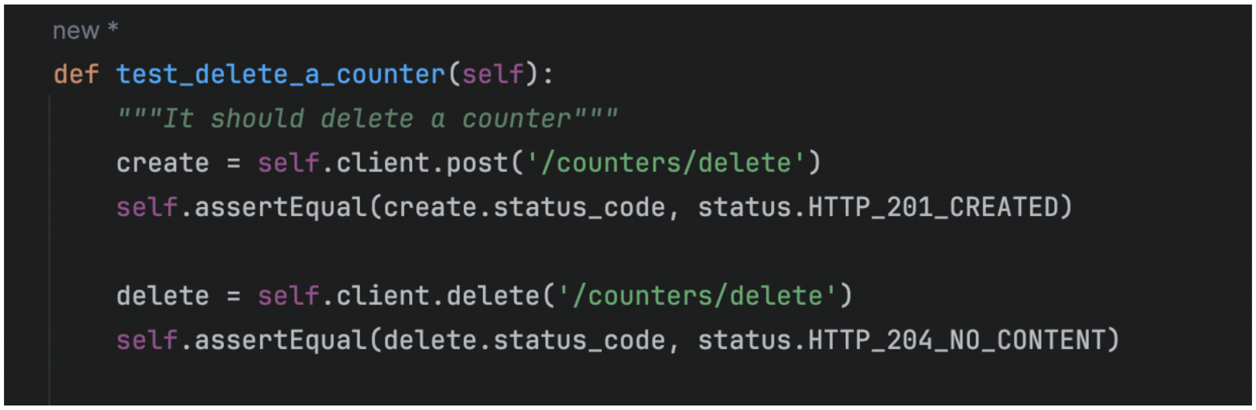
finished workflow file
CI workflow #4: Commit a8f7cf0 pushed by junxjr — main — 4 hours ago — 23s

new tdd
CI workflow #1: Commit 01b3496 pushed by junxjr — main — 5 hours ago — Failure

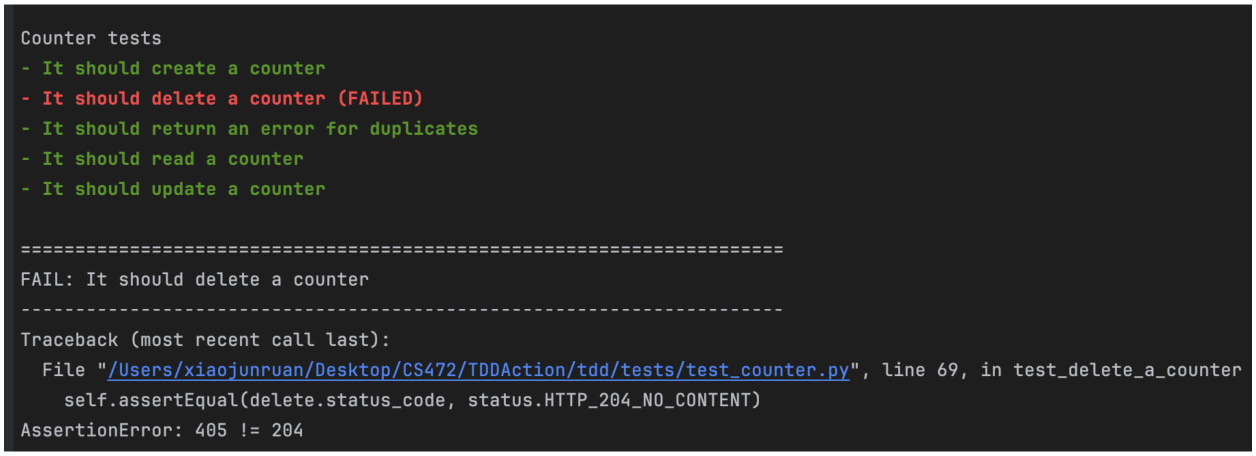
Task 2: Delete a counter

The RED Phase for delete a counter. I added a new test to delete a counter in my test_counter.py file. First, I created a counter using POST, then I checked if the return code was successful. After that, I deleted the counter using DELETE, and ensured that the return code is

204_NO_CONTENT. However, since I have not implemented the counter.py yet, it is in the RED phase. Here are the screenshots:

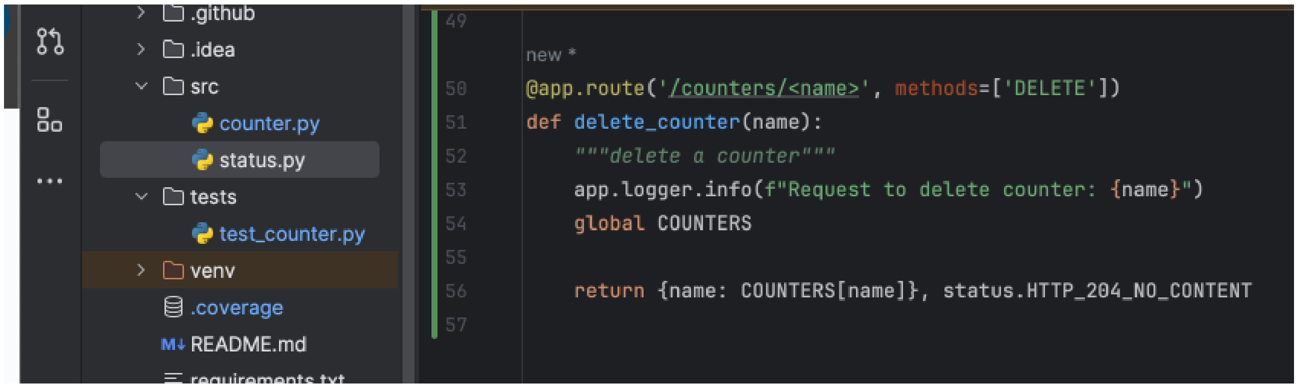


```
new *
def test_delete_a_counter(self):
    """It should delete a counter"""
    create = self.client.post('/counters/delete')
    self.assertEqual(create.status_code, status.HTTP_201_CREATED)

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

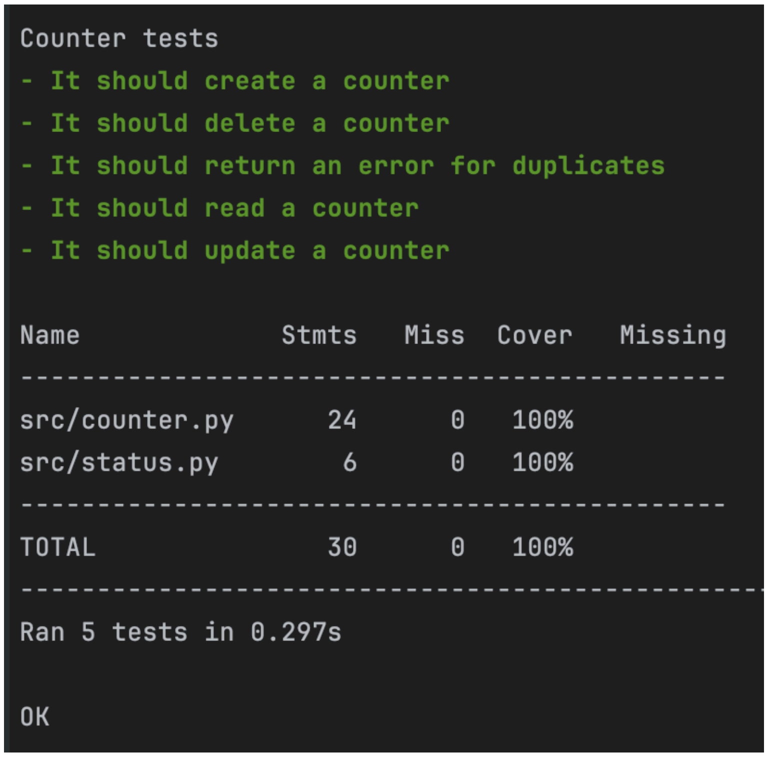


```
Counter tests
- It should create a counter
- It should delete a counter (FAILED)
- It should return an error for duplicates
- It should read a counter
- It should update a counter

======================================================================
FAIL: It should delete a counter
----------------------------------------------------------------------
Traceback (most recent call last):
  File "/Users/xiaojunruan/Desktop/CS472/TDDAction/tdd/tests/test_counter.py", line 69, in test_delete_a_counter
    self.assertEqual(delete.status_code, status.HTTP_204_NO_CONTENT)
AssertionError: 405 != 204
```

The GREEN Phase for delete a counter. In the counter.py, I first created a route to delete a counter for the method. With the global counter, I returned it with the 204_NO_CONTENT code for delete successfully.

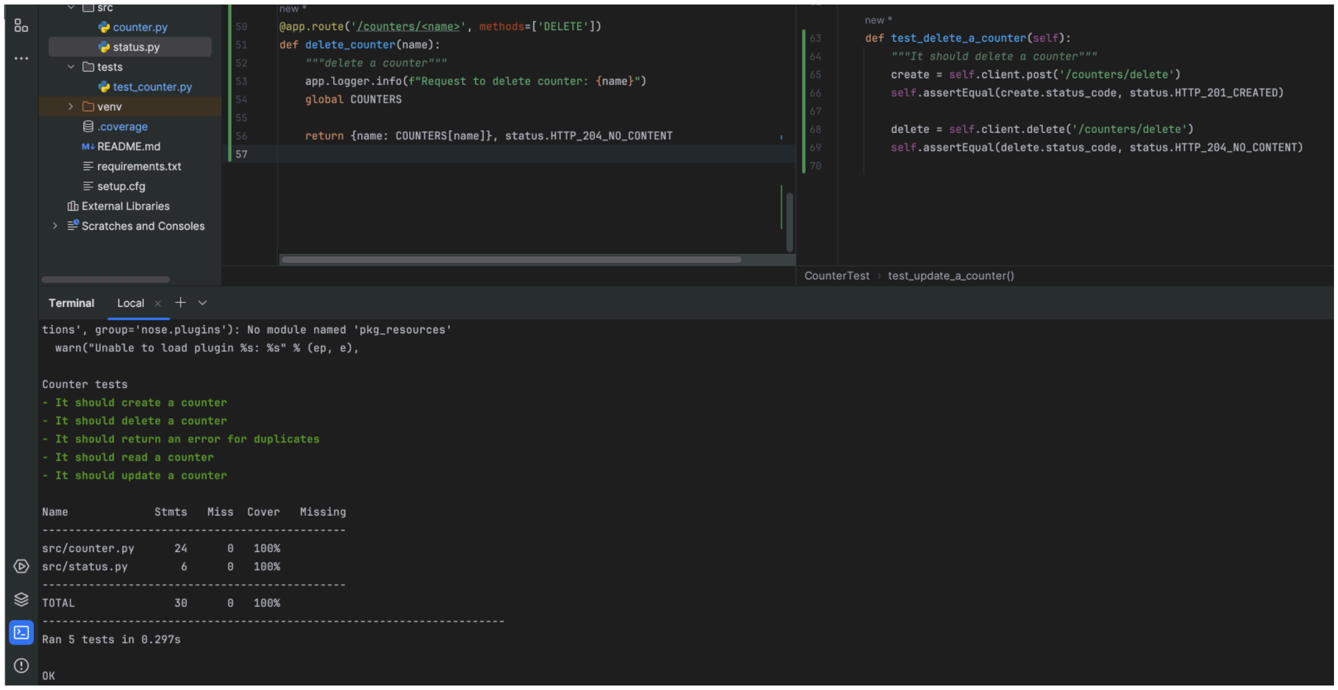


```
new *
@app.route('/counters/<name>', methods=['DELETE'])
def delete_counter(name):
    """delete a counter"""
    app.logger.info(f"Request to delete counter: {name}")
    global COUNTERS

    return {name: COUNTERS[name]}, status.HTTP_204_NO_CONTENT
```



```
Counter tests
- It should create a counter
- It should delete a counter
- It should return an error for duplicates
- It should read a counter
- It should update a counter

Name              Stmts   Miss  Cover   Missing
-----------------------------------------------
src/counter.py       24      0   100%
src/status.py         6      0   100%
-----------------------------------------------
TOTAL                30      0   100%
--------------------------------------------------
Ran 5 tests in 0.297s

OK
```

The Refactoring Phase for delete a counter was simply checking the code was formatted correctly and ensuring the coverage is 100%. Other than that, I didn't really change the code.



```python
@app.route('/counters/<name>', methods=['DELETE'])
def delete_counter(name):
    """delete a counter"""
    app.logger.info(f"Request to delete counter: {name}")
    global COUNTERS

    return {name: COUNTERS[name]}, status.HTTP_204_NO_CONTENT
```

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

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

```
tions', group='nose.plugins'): No module named 'pkg_resources'
  warn("Unable to load plugin %s: %s" % (ep, e),

Counter tests
- It should create a counter
- It should delete a counter
- It should return an error for duplicates
- It should read a counter
- It should update a counter

Name              Stmts   Miss  Cover   Missing
-----------------------------------------------
src/counter.py       24      0   100%
src/status.py         6      0   100%
-----------------------------------------------
TOTAL                30      0   100%
----------------------------------------------------------------------
Ran 5 tests in 0.297s

OK
```