**Running static code analysis using Sonar Cloud in CI pipeline**
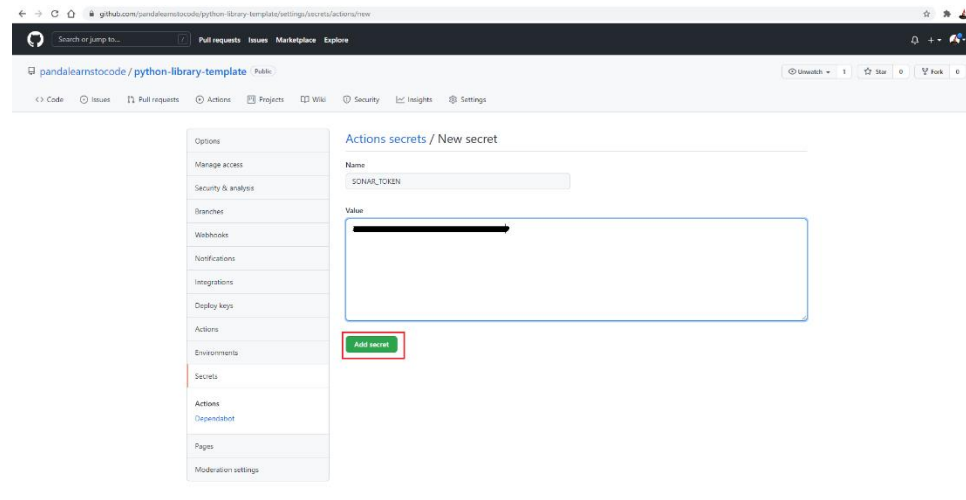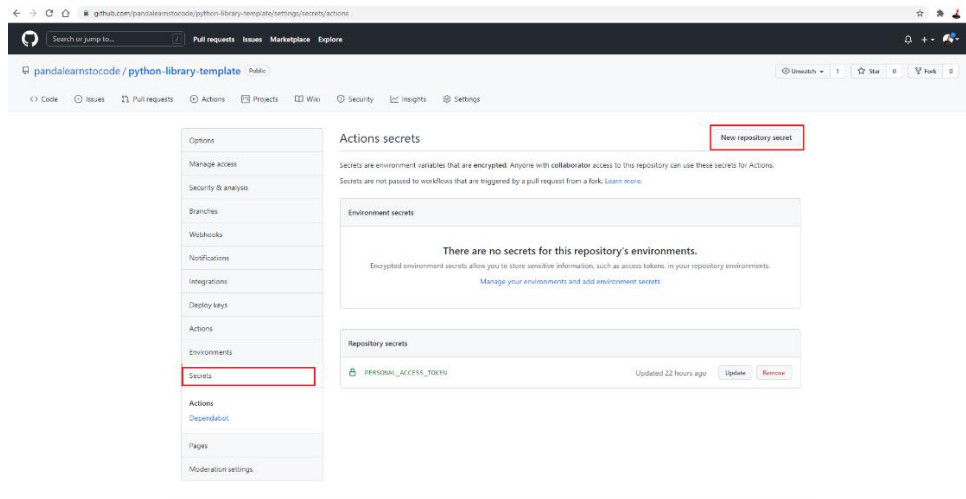
**Step 1:** Importing project to sonar cloud: login to sonarcloud.io → import GitHub organization → select a repository in which you want to run sonar cloud static code analysis → sonar cloud will import the repository → copy paste the project key and organization key from the landing page → these values has to be updated in sonar-project.properties in project root directory.



**Step 2:** Get SONAR_TOKEN from sonarcloud.io. Log into SonarCloud → Click on your profile → 'My Account' → 'Security' → Generate your access token for SonarCloud here → Go to your repository settings in GitHub → 'Secrets' → add a new secret with name SONAR_TOKEN and use the generated SonarCloud access token as value.

**Step 4:** Add pytest, flake8 and pylint related command in action → add SonarCloud action in GitHub action → From sonar cloud project → administrative → switch off automatic integration with github repository → trigger CI pipeline → Validate all the required things are getting reflected in sonar cloud dashboard or not.
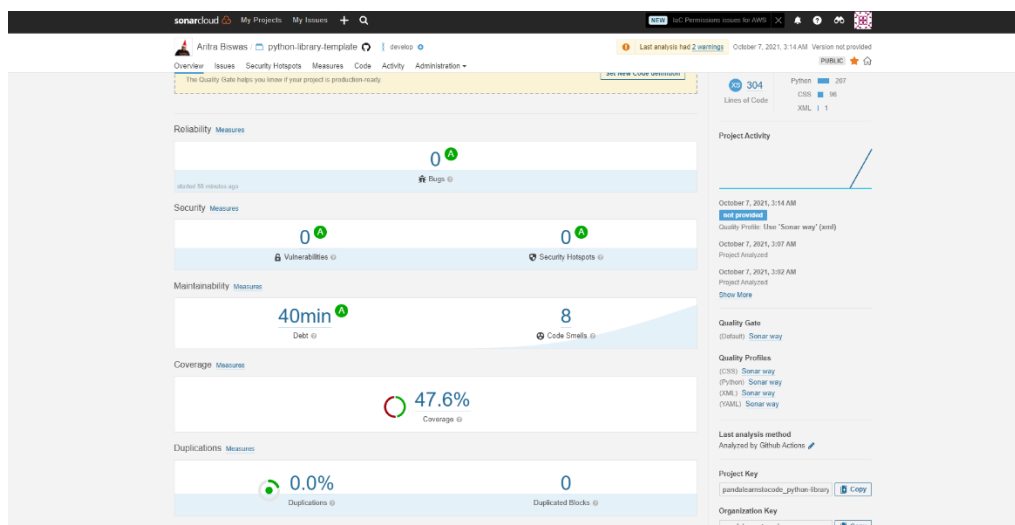
**TODO:**

- Quality gate
- PR decorator
- Adding status badge
- Notification if the merge fails
- Enabling things based on PR, not by push

**Reference:**

1. https://dev.to/remast/go-for-sonarcloud-with-github-actions-3pmn
2. https://github.com/pandalearnstocode/python-library-template/blob/develop/.github/workflows/python-app.yml
3. https://github.com/pandalearnstocode/python-library-template/blob/develop/sonar-project.properties
4. https://sonarcloud.io/dashboard?id=pandalearnstocode_python-library-template