TVVS Exercise

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Requirements

For this project to work, you'll need

- NodeJS.

    - Ideally, you would use version **14+**.
    - You can download Node on their download page.
    - As for *recommendation*, using a package manager for (U)nix systems can be more convenient.

- An account in one of the following git hosting providers.

    - GitHub
    - BitBucket
    - GitLab

    NOTE: Some features may be different depending on the providers. **GitHub** will be the main focus of this exercise.

Project setup

1. Create a new project designated *tvvs-exercise*.

2. After that, go to your repository "Actions" tab and enable workflows (if you haven't already).

3. Go to https://sonarcloud.io/ & Log in.

4. Click on import an organization from GitHub and select your account.

5. Either select all repositories or just the *tvvs-exercise* and hit **install**.

6. Accept default import values, but make sure the *"free plan"* is selected.

7. Select the imported repository and hit *"set up"*.

8. Choose GitHub Actions as you CI and follow instructions, making sure you select the JS/TS build.

    - Don't configure a workflow, because the base project already comes with it. But you should configure the repository secrets!

    - Also, make sure you save the **project key** and **organization** since it'll be required in step 11.

9. Go to **Administration > New Code** and set the project based on *"Previous Version"*.

10. Go to the initial project and configure the git as explained in your newly GitHub repository in step 1 (init/branch/remote configuration).

11. Make the following changes to your `sonar-project.properties` file.

    ```
    sonar.projectKey={YOUR PROJECT KEY}
    # You can find this under Administration > Update Key
    sonar.organization={YOUR ORGANIZATION NAME}
    ```

12. Commit and push your changes.

13. Check if the sonarcloud action passes and then check the project in sonarcloud.

14. Remove the `src/` folder from the `.gitignore` and uncomment the lines metioned in `sonar-project.properties`.

    ```
    sonar.eslint.reportPaths=coverage/lint.json
    ```

15. Commit and push your new changes.

16. Check if the sonarcloud action passes and then check the project in sonarcloud (it should be **RED**)!

Exercises

Some exercises require you to install all npm's dependencies. To do that, simply do `npm install` in the root directory. NPM already comes bundled with NodeJS.

1. Start by analyzing each category of sonarcloud and fixing the corresponding issue. Push your code with each fix to make sure it's the correct fix.

2. Run ESLint and fix more issues (if any).

```
npm run lint
```

3. Run Prettier and format your code according to codestyle.

```
npm run format
```

4. Run audit to try to fix vulnerabilities in dependencies.

```
npm audit
```

```
npm audit fix
```

```
npm outdated
```

```
npm update
```

```
npm audit
```

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