Test Management tool
- TestLink -

Exercise

The purpose of this exercise is to explore the TestLink tool and discuss the best way to manage tests in a calculator webapp

- **Please clone or download the following repository:**

  https://github.com/tchuna/TVVS_TestManageTools

- **Inside the folder calculator_TVVS/react-backend execute the following commands:**
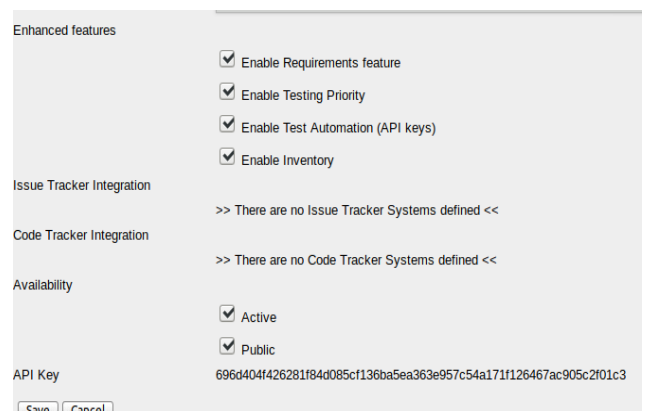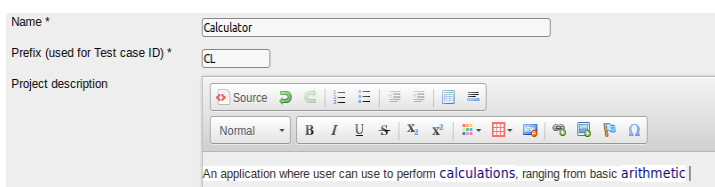
  npm install

  npm start

- **Inside the folder calculator_TVVS/client execute the following commands:**

  npm install

  npm start

1. Create a new project

a) Give a name to the project;
b) Give a description to the project;
c) Select all the enhanced features.

2. Create a Requirement Specification for a Basic Arithmetic whit following requirement operations:

a) Subtract two numbers
b) Add two numbers
c) Multiply two numbers
d) Divide two numbers

3. Create a Test Suite with the following Test Case:

a) Test Subtract two numbers
b) Test Add two numbers
c) Test Multiply two numbers
d) Test Divide two numbers
e) Coverage test
f) Mutation test
h) Security Test
i) Eslint Test

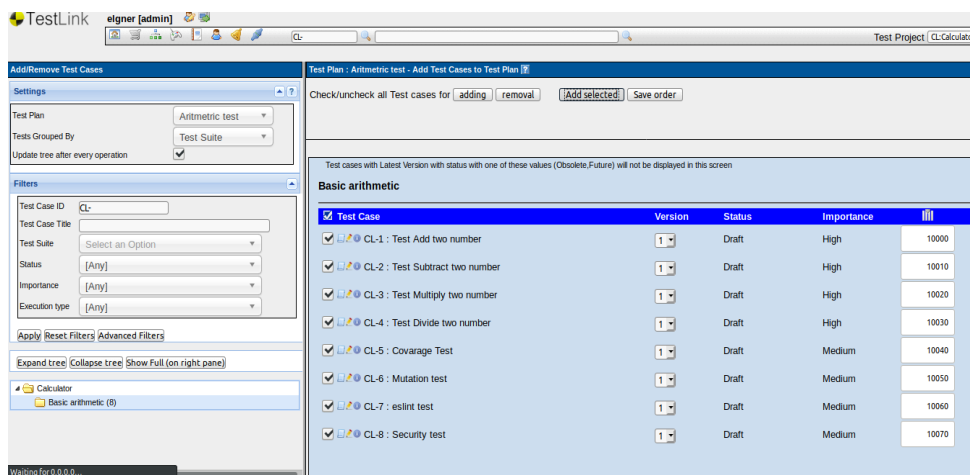## 4. Link Test case to the Test Requirement:

a) Go to Requirement Specification
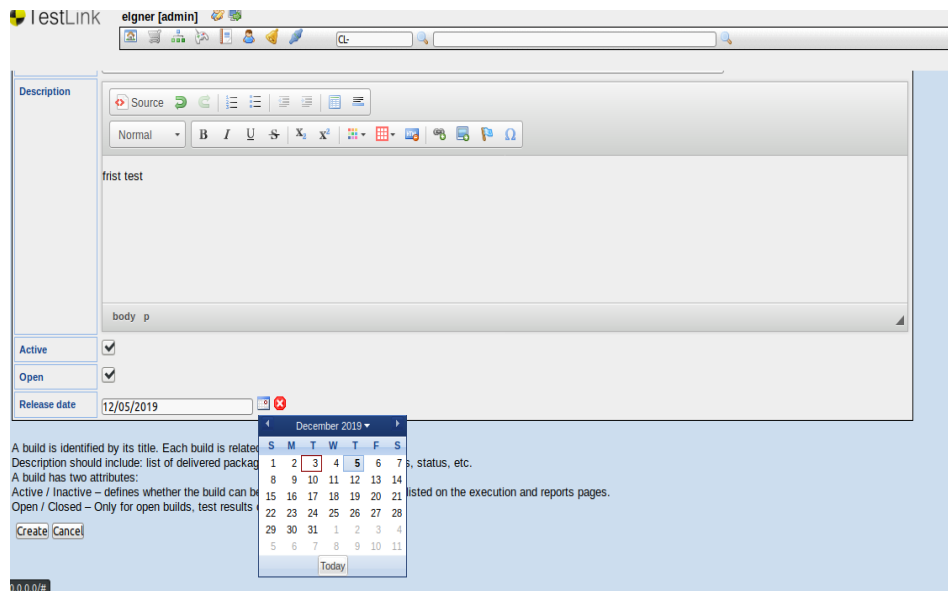b) On Coverage add test case for the requirement
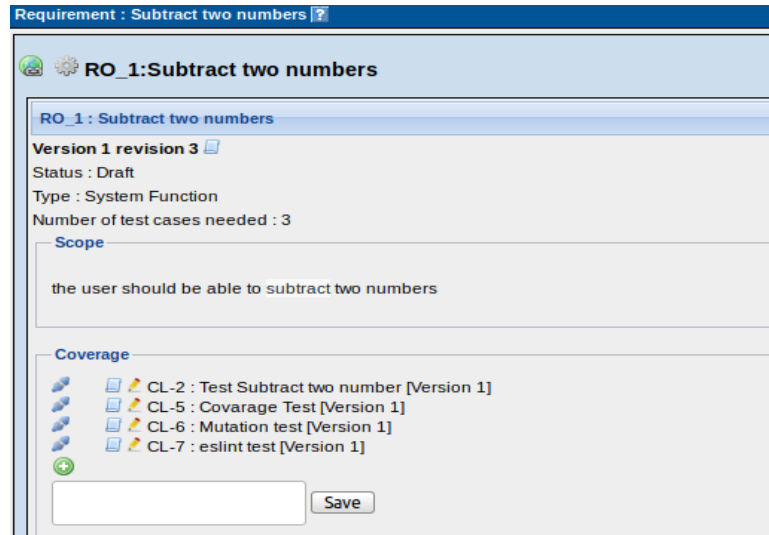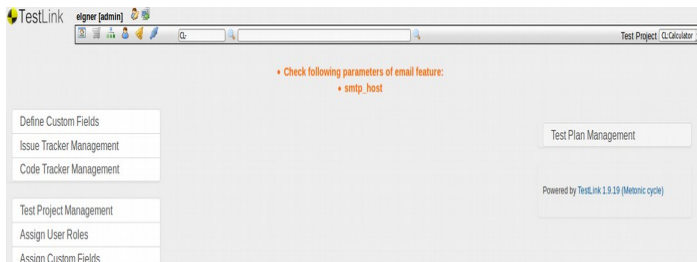
5. Create a Test Plan in home page

a) Give a name and description
b) Add all the test case to this test plan

6. Create a Builds/Releases in home page

a) Name it version-1

b) Give a date to the release

7. Now, inside the folder calculator_TVVS/react-backend run the following commands and fill the test result in the TestLink test case:

a) npm run unit-test

b) npm run covarage-test

c) npm run mutation-test

d) npm run test-linter

e) npm run vulnerability-test

8. In Home page (TestLink) in the section Execute Test execute all the test case according to the results obtained in the previous line.
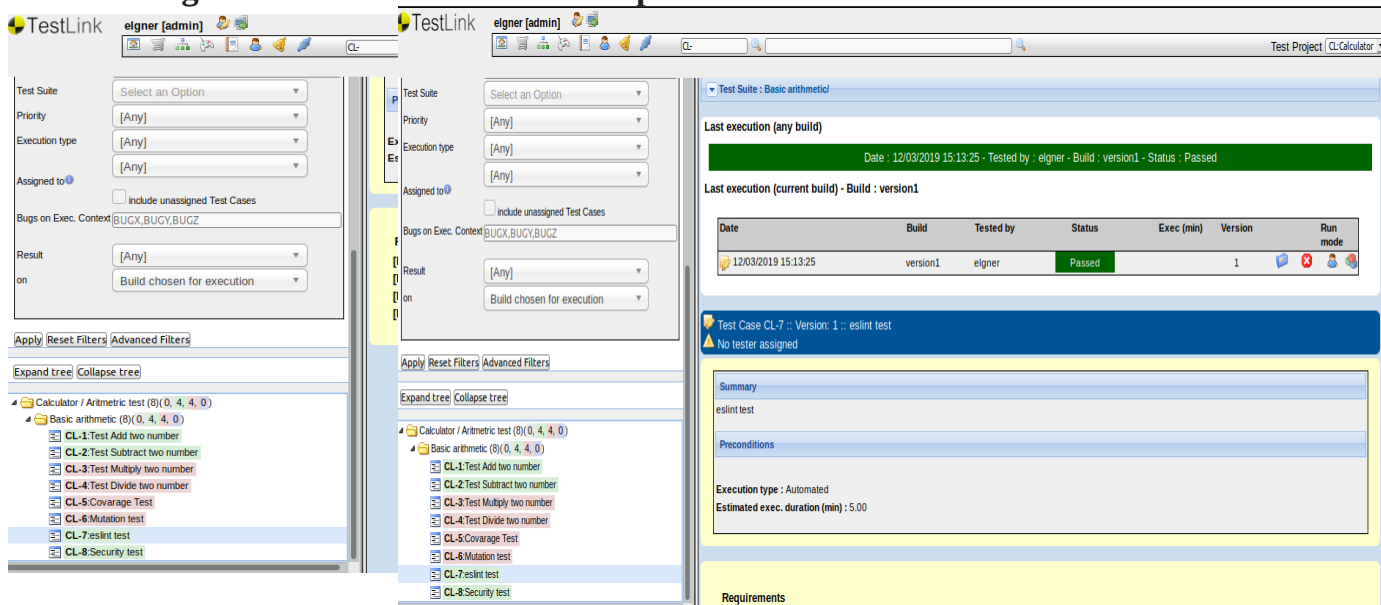
9. Now inside the folder calculator_TVVS/react-backend/Tests in the file test.js try to fix the failed tests and execute again the all test case in TestLink.

10. Finally, Generate a report in Home page
a) Test Reports and Metrics
b) Metrics Dashboard