Code Coverage

Overview

High code coverage during testing is an important aspect of developing a robust application. So long as tests are correctly written it ensures the application will behave as expected and outlines any issues during deployment, further development, and refactoring.

Coveralls

Coveralls is a popular webapp which is used to record the code coverage for a project and generate shield badges for publication on readmes etc.

To use, register for an account and link github. For each project which code coverage is required, create a new project in the coveralls dashboard using the ‘add repo’ button, then select the desired repo from github.

Travis CI can then be setup to automatically send code coverage for various different applications upon build completion.

Node Code Coverage - Jest

For node applications, the coveralls npm package can be used to send coverage reports created by the Jest JavaScript testing framework.

First, add the latest version of coveralls to the node project:

npm install coveralls --save-dev

Then if using TravisCI, add the coveralls script to the package.json after the test script:

"scripts": {

"test": "jest --no-cache --coverage",

"coveralls": "cat ./coverage/lcov.info | coveralls"

},

Then tell travis to run the test and coveralls script in the .travis.yml file:

script:

- yarn test

- yarn coveralls

The coveralls package should then automatically send the coverage report to coveralls for evaluation.