JavaScript Unit Testing

The document is based on the node package manager (NPM). If your system doesn’t have the node js . Install it.

Technology:

Javascript Runner: NodeJS or any browser.

Frameworks : Qunit, RequireJS.

Test Runner : Karma

Pluggins : Karma Code coverage and karma spec reporter.

Setup.

Karma is Test Runner tool to run the test cases.

npm install karma --save-dev

# Install plugins for karma to work with Qunit framework.

npm install karma-qunit

#Install firefox launcher to run the test cases.

karma-firefox-launcher --save-dev

# Install global karma CLI to access the Karma through command line interface.

npm install -g karma-cli

# Install QUnit framework.

npm install --save-dev qunitjs

#Install requirejs. Requirejs used to load the javascript modules.

npm install requirejs –save-dev

#Install the code coverage plugins

npm install  karma-coverage --save-dev

npm install  karma-spec-reporter --save-dev

Verifying the npm packages.

1. Launch the command line interface.
2. Type node –v to verity node installed or not. If installed it prints the version details.
3. npm –v to verify the npm package manager installed or not. If installed it prints the npm version.
4. npm ls –depth=0 to verify the all installed packages.