

# Mocha Testing

<http://visionmedia.github.io/mocha/>

## Installation

- install the mocha & eslint-plugin-mocha plugins via npm

```
$ npm install --save-dev mocha
$ npm install --save-dev eslint-plugin-mocha
```

- create test folder and put test case there
- to run test, just issue command mocha

```
$ mocha
```

Edit the .eslintrc.json file to include the eslint-plugin-mocha plugins

```
{
  ...
  "plugins": [
    "mocha"
  ],
  "rules": {
    ...
    "mocha/no-exclusive-tests": "error",
    "prefer-arrow-callback": 0,
    "mocha/prefer-arrow-callback": 2
  }
}
```

## Using .only for exclusive test only

Mocha has a feature that allows you to run tests exclusively by appending `.only` to a test-suite or a test-case. This feature is really helpful to debug a failing test, so you don't have to execute all of your tests. After you have fixed your test and before committing the changes you have to remove `.only` to ensure all tests are executed on your build system.

This rule looks for every `describe.only`, `it.only`, `suite.only`, `test.only`, `context.only` and `specify.only` occurrences within the source code.

e.g.

```
describe('.saveOne', function () {
  it.only('will run the test', async function () {
    ...
  })
})
```

```
  })
  it.only('will not run this test', async function () {
    ...
  })
})
```

## prefer arrow function callbacks (mocha-aware)

In ES6, we use arrow function a lot. But in Mocha, both describe and it callback should NOT use arrow function as the this will no longer refer to suite/test.

e.g. INCORRECT

```
describe('User', () => {
  this.timeout(5000) // this is not refer to suite
  ...
})
```

CORRECT

```
describe('User', function () {
  this.timeout(5000) // this is ok
  ...
})
```

## Test Case

- Reference

<http://www.wekeroad.com/2012/02/25/testing-your-model-with-mocha-mongo-and-nodejs/>

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