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Mocha

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Overview

JS testing framework specifically designed for use with asynchronous functions.

Installation

```
npm i mocha

npm i -g mocha
```

It is useful to install **mocha** both locally and globally as this makes it possible to use the **mocha** runner at command line.

Running mocha

To use Mocha - simply add **mocha** to a **test** script in the **package.json** file.

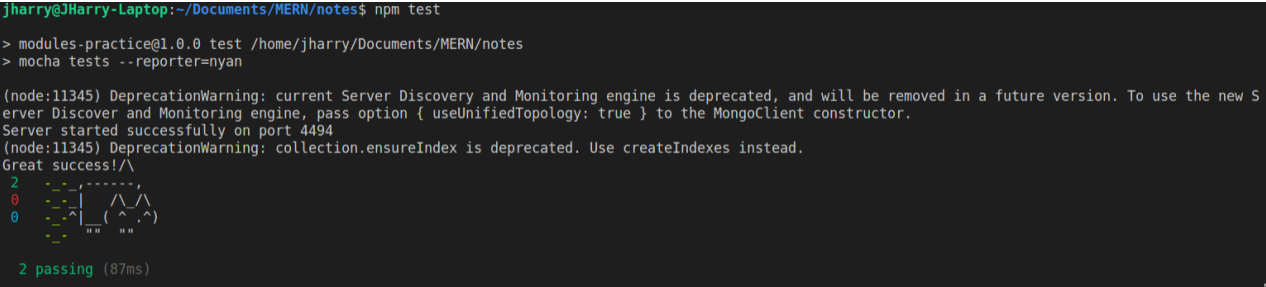
```
"scripts": {
  "start": "node index.js",
  "test": "mocha"
}
```

Now, when **npm test** is run Mocha will scan through the current folder and run any test scripts it finds.

If your tests are in a sub-folder (*/tests* for example) then simply include the relative path to that folder in the test script, like so:

```
"scripts": {
  "start": "node index.js",
  "test": "mocha tests"
}
```

Mocha will output the test results to the console in this format:



describe (it)

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Mocha tests are designated using `describe()` or `it()`, these functions take in two arguments:

1. A description - as a `string`.
2. The test itself - as a `function`.

For example:

```
describe('Testing a feature', function() {  
  
  it('Should do one thing', function() {  
    //test it does one thing  
  });  
  
  it('Should do another thing', function() {  
    //test it does another thing  
  });  
  
});
```

Passing arrow functions to Mocha is discouraged. Lambdas lexically bind `this` and cannot access the Mocha context.

If you do not need to use Mocha's context, lambdas should work.

Hooks

Mocha provides the hooks `before()`, `after()` and `beforeEach()` and `afterEach()`. These should be used to set up preconditions and clean up after your tests.

```
describe('Hooks', function(){  
  before(function(){  
    // runs once before the first test in this block  
  });  
  
  after(function(){  
    // runs once after the last test in this block  
  });  
  
  beforeEach(function(){  
    // runs before each test in this block  
  });  
  
  afterEach(function(){  
    // runs after each test in this block  
  });  
  
  // test cases  
});
```

Exclusive tests

Exclusivity allows you to run *only* the specified suite or test-case by appending `.only()` to the function.

```
describe('Exclusive tests', function(){  
  describe.only('This one', function() {  
    // some implementation  
  });  
});
```

All nested suites will still be executed.

Here's an example of executing an individual test case:

```
describe('Exclusive tests', function(){
  describe('Collection', function(){

    it.only('Should run', function(){
      // ...
    });

    it('Will not run', function(){
      // ...
    });
  });
});
```

Skipping tests

This feature is the inverse of `.only()`.

By appending `.skip()` we tell Mocha to ignore tests. Anything skipped will be marked as pending and reported as such.

```
describe('A suite', function(){
  describe('A more segregation', function(){

    it.skip('Should skip',function(){
      // ...
    });

    it('Should run',function(){
      // ...
    });
  });
});
```

Tutorial

There is no tutorial for this module.

Exercises

There is no exercise for this module.