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Testing : it is use to find the defects or error or bugs in the application without main method or function.

Black box testing : input process output

White box testing : input process output

Unit testing : unit testing is use to test function functionality (we write the code inside function or method or class or modules).

Angular Testing

UI Testing :

Jasmine : Jasmine is open source testing framework which help to do the Testing for JS. It may be client side Java Script as well as Server side (Node JS). Jasmine provide to of pre-defined API to do all types of testing.

Angular Testing :

Jasmine and Karma for Angular Testing.

Mocha : Mocha is light weighted testing framework compare with Jasmine.

Mocha with Chai (Assertion library framework). We use this testing framework for Node JS.

JEST :

React JS with JEST is framework for testing.

Testing with simple Plain JavaScript program

Jasmine testing framework provided test suite and test case.

Test suite : all testing framework provided pre-defined function is describe. It is behave like a container which help to write more than one test cases.

Syntax

describe(“message”,callback);

describe(“message”,()=> {

})

Test case : all testing framework provide pre-defined function ie it. This function help to do test the function functionality. It contains more than one expect function to check actual and expected output.

it(“message”,callback)

describe(“Message”,()=> {

it(“simple testing1”,()=> {

more than one expect function to test the function functionality

})

it(“simple testing2”,()=> {

})

it(“simple testing3”,()=> {

})

})

Angular took the help of Jasmine framework to do the testing. Because Jasmine provided describe, it and more than one expect functions.

Angular took the help Karma. Karma is test runner to display the testing output.

Angular provided pre-defined API ie TestBed which help to do the testing for angular component, service, module, pipe etc.

Hook function : life cycle function which will call automatically

beforeEach() : this function call automatically before each it function.

beforeAll() : this function call automatically before all it function. It will call only once

afterEach() : this function call automatically after each it function

afterAll() : this function call automatically after all it function. It will call only once.

function add(a,b) {

Coding….

var result = getInfo(a,b);

If(result) {

return true;

}else {

Return false;

}

}

Function getInfo(a,b) {

}