Day 10: 6 Oct 2024

Testing :

Testing is use to check bugs or error in the application.

If we run the application using console or browser or using some tool.

Indirectly we are testing the code.

Main method

int a=10,b=20;

int sum = a+b;

Display b;

public int add(int x, int y) {

int sum = x+y;

return sum;

}

Testing is use to test my function functionality with main method or main function.

Testing mainly divided into two types.

Black box testing

Input **Process** Output

Input

<http://www.gmail.com>

emailid : [admin@gmail.com](mailto:admin@gmail.com)

password : admin@123 success

actual value and expected value must be match then we can say test is pass.

White box testing

Input **Process** Output

We need to write the code using that language to do the testing.

Unit testing : Unit testing is a type of software (whit box testing). Which help to test smallest code which written in method or function. It is use to test function functionality working or not.

Junit : Junit is an open source framework which help to do the unit testing in Java.

Nunit : .net

Angular : Jasmine

React JS : Jest

Node JS : Mocha with Chai

Junit 3.x

Junit 4.x

Junit 5.x version

Test Case : Junit Test case is a type of class which contains more than one method or function with @Test annotation which help to test every method independently. It is like a main method.

It is collection of more than one test methods.

Spring boot Testing :

In Spring boot we can test JavaBean or entity class, Controller class, Service class,

When ever we create any spring boot project using spring initializer by default that project contains spring boot testing starter.

Course End Project Rest API

travel company

First Eureka Server : Web Starter and Eureka Starter

Cab-Booking-micro service

Web Starter, Jpa Starter, MySQL Connector, Devtool, Eureka Client, Lombok etc

Cab (Cid PK Auto increment), typeofcab, seat capacity, company, fare etc

Add, find by id, find all cabs, update , delete etc.

Booking (BID PK Auto increment), CID(FK), time, distance, amount etc.

Create end points.

Those end point test using post man or any other tools.

Please write test case mainly service layer if need you can try controller layer also.