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7-2 Project Two

I used Junit testing for all three of the assignments and project one. I tried to make sure that all requirements were accounted for during the testing process. When I was doing my testing for all the milestone assignments I wanted to concentrate on the requirements. The Contact Class I tested for the ID string, first/last name, and phone number were no longer than 10 characters/digits long and that the address was no longer than 30 characters long because they couldn’t be null.

@Test

void testNullArguments() {

Assertions.assertThrows(IllegalArgumentException.class, () ->{

new Contact(null, null, null, null, null);

});

@Test

void testSetFirstAndLastName() {

Contact contact = new Contact("198896", "Brandon", "Jones", "2596140378", "691 Palm Street");

contact.setFirstName("Brayden");

contact.setLastName("Jones");

assertTrue(contact.getFullName().equals("Brayden Jones"));

}

These two code snippets are testing null arguments for Contact Class and testing making sure that everything is within the requirements. From the example above I checked how it ran. After the Junit test was ran, I had no errors and no failures. The only Junit test that had an failure when tested was the Appointment Service. I believe overall the efficiency of my code was a 70% due to not testing everything that needed to be tested and for not fixing that one error that was in the Appointment Service.

One software technique that I used was black-box testing. I had all the requirements and specifications from the client. I also used Unit testing because I tested each of the lines of code to make sure that there were no errors. I had used regression testing as well. I had three different modules client, task, and appointment. There are a lot of testing techniques that I didn’t use. Some of those techniques are white-box testing, automation testing, and error testing (GeeksforGeeks, 2022).

White box testing is one of the testing techniques that I didn’t use. White box testing is mostly used when the person testing knows the internal workings and can access the source code. Automation testing uses an automation tool to test software and can complete tasks without the help of a manual tester (person). Error testing is used by someone who has experience testing or knows the system well enough to know where the system may have a weakness (GeeksforGeeks, 2022).

This was the first time for me to use testing. I had never done testing by writing specific code to test each function of code. All I have ever done was write code and run it. If there were any errors, I would go through and fix them. When it comes to caution while testing, I didn’t have much. I know I missed certain functions while testing. I should have made sure that everything was tested. The things I did test were all good and had no errors. Bias is a big concern while testing. The person who created the code is always going to have some sort of bias if they test their own code. Testers need to have little to no bias at all. If they do have bias, there’s a good chance that errors will be overlooked and that could cause trouble. It is very important to not cut corners on testing. Testing needs to be done thoroughly so everything is running right and all errors are caught before the software is deployed.

Works Cited

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