CS-320 Module Project Two

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Unit testing is an important stage of the software development and it requires to write code

with the best industry practices. My strategy was to follow these practices and my priority

was to ensure that my codes pass the unit testing. In the first module (contact services). I

needed to test the first and last name which could not be null and cannot exceed the 10

character limit. Similarly, the Task service was also required the task Id and task name and

description of the task which all of these fields could not be null and had to be less than the

character limit. And for the last milestone, the appointment service required the

appointment Id and appointment Date which could not be date in the past.

Every module had great details in increasing the testing coverage and that helped to

improve the overall test outcomes and higher percentage of the coverage displayed the

higher test passing success. Compiling and running the code required the use of multiple

methods such as arrays and strings and I had to use different methods to find the best code

for each of the module assignments. I took advantage of the tools available at SNHU, to

better understand and expand my knowledge and coding skills. One of the great tools is the

tutoring service and also many tutorials available online.

Reflection:

In today’s technology era and use of technology in every industry and project, the

importance of the testing increases and to have a successful project we must ensure that our

program is running as expected and to save time and resources testing should occur during

the development and very often, and that is the purpose of the unit testing. During my

assignments I practiced the importance of proper testing to ensure my assignments passing

rate is improved through using JUnit testing.

There are multiple testing methods such as static testing, unit testing and white box testing.

For my assignments I employed unit testing which tests each unit and test the next unit

when the first unit is passed. Static testing is a testing method that does not run the program

to test its behavior, which I did not find it useful my projects as I needed to test my code by

actually, run the code to check its behaviors and functionality. After working on these

assignments, I better understand the importance of the testing and specially unit testing, I

had worked with testing frameworks before but did not have a lot of exposure to writing

test codes and this course helped me understand the best practices and gain knowledge for

my future projects.

As mentioned before, testing is a very important stage of the development, and it is crucial

to understand the proper implementation and functionality of the program, and as software

developers we should ensure that these practices run through all of our projects and even

the teams we work with. When we test the code frequently, improved the project success

and mitigate the risk and help reduce time and budgets and the overall experience of the

project and client satisfaction. As software developers we should get in the habit of testing

our codes as frequent as possible and in an incremental.