CS 320

Module 5 Journal

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* What were the software testing techniques that you employed for each of the milestones? Describe their characteristics using specific details.

For each of the milestones I used the process of verifying the assignments requirements. I created test cases of what the methods intentions were to perform. As an example, the creation of all the contact, task, and appointment all had a similar requirement that the data types could not be null. In all three of these test cases I tested a creation of one of these objects with null requirements to verify that the requirements were met. This type of data validation was done through all three modules and they helped me to understand that the code was executing properly.

* What are the other software testing techniques that you did not use for the milestones? Describe their characteristics using specific details.

In my type of testing I avoided using types of testing like automated testing. Automated testing would use a service that would run after build events in Eclipse but for my purposes I implemented manual testing. The other type of testing that I did not implement was integration testing. This type of testing would test the data from multiple sources and for my purposes I chose not to test it in that manner.

* For each of the techniques you discussed, explain the practical uses and implications for different software development projects and situations.

For the type of testing I did (validation testing) the practical uses are things like making sure we are fulfilling the requirements, acceptance testing, and quality assurance. As far as the implications are compliance and customer satisfaction. The problem with this type of testing though is it can be very time consuming because of the amount of test cases to create. As far as the 2 types of testing I did not implement (Integration and automation) there are several practical uses. These are things like early detection of issues, consistency, scalability, and efficiency and speed. Even though these things are very good reasons for these types of testing there are also some pretty large negatives. These negatives are things like initial investment, maintenance, resource intensive, and skill requirements. These 3 types of testing work great for things like Web applications, mobile applications, E-commerce and things like these. In these types of projects, integration works by making sure the systems all function together, automation implements frequent testing to verify the consistency of it, and the validation makes sure it meets customers needs and requirements.