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**Software Development Testing Techniques**

1. **How do you conduct software testing? Explain your answer.**

On my journey of being an IT student, when I create software or a code for my project is creating separate file of codes and then compile it. This way I can somehow manage to fix the bugs easily, unlike having a bunch of codes I find it hard to fix the errors. After creating codes, I connect it to the other source code and make the software function works as it should be. When I compile the source code and success making the connections and they work as one, simply do a double checking, like running test again to make sure that there are no slipped bugs through the other stage of testing.

1. **What is the importance of conducting software testing? Explain your answer.**

The importance of conducting software testing is that you can be able to find what are those things that need to be fix, so that this way you can be able to fix it as early as possible compare to having a bunch of codes that is more complicated to fix the bugs. One of the advantages of this is that it could your journey along the way runs smoothly. Software testing is a crucial step in the engineering and development of software. It's a preventative approach to guarantee the high caliber and dependability of software products, stop expensive and disruptive problems, and ultimately provide value to stakeholders and end users. Effective testing is a key component of success in the dynamic sector of IT, where software is continually improving.

1. **What testing technique is effective? Explain your answer by providing facts and information.**

The testing technique that is more effective for me is the dynamic testing, I actually doing this kind of a test whenever I create a project and it is really helpful when it comes to fixing bugs in the codes. It focuses on evaluating a software application's performance and behavior while it is being actively executed or used. This kind of testing is essential for ensuring that the software adheres to the preset design and functional specifications that were established at the beginning of the project and performs as intended. By comparing the expected results with the actual results while the software is being executed, it plays a crucial part in the software development and quality assurance process.

1. **How effective is testing technique in establishing quality software information systems?**

Testing technique can become effective when establishing a good quality of software information systems. Before a product is released to the market, early software testing reveals issues. The sooner test feedback is received by development teams, the sooner they can address problems such as wrong choice of design, bugs and etc. Specially today, ensuring the security of a software information system is of the utmost significance. Organizations and people are seriously at risk from security lapses, data leaks, and cyberattacks. A key factor in enhancing the security of software information systems is rigorous testing, especially security testing.