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SNHU

* What occurs during the testing stage of the SDLC?

What occurs during the stage of SDLC is the testers test the product. The testing state is used to discover any defects in the products. These defects are then reported, tracked, fixed, and re-tested until the product reaches the standards of the SRS, which is requested by the customer.

* Why is the testing stage vital to a successful SDLC?

The testing stage is vital to a successful SDLC because it keeps the development of the product in check. The testing stages helps catch any defects in the developed code within the early phases of the product’s creation. These defects can cause problems not only for the production team, but the customer later on. Finding these defects early, the team does not have to waste time in the ending cycles in worrying about wasting time going back to fix these defects. Also, the reputation of team will be not tarnished by giving a customer the product they requested without the customer experiencing these defects after the product has been created. The testing stage can show if the code’s output matches or exceeds the customer’s wants in the product.

* Are there any exceptions in which the testing stage would occur earlier or later than it typically does in the SDLC? Explain.

Yes, there are exceptions in which the testing stage would occur earlier or later than it typically does in the SDLC. While reading chapter 1.6 of the Knovel reading Software Testing, testing early can help within the SDLC. As I previously stated, testing help discover defects in the product being created. The idea of testing early can help the team discover these defects early within each phase. Catching these defects early, the team and product benefits from being rushed on time at the end of the project and it also protects the budget from any rework cost. The cost escalation model in the Knovel readings shows a perfect example how errors can decimate a budget if the team waits to long in fixing these errors.

**REFERENCES:**

1. Hambling, B., Morgan, P., Samaroo, A., Thompson, G., & Williams, P. (2015). *Software testing: An ISTQB-BCS certified Tester Foundation guide* (3rd ed.). BCS, The Chartered Institute for IT.