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ITSE 1450

Module 11 Questions

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Quality Assurance (QA) is a process for improving the quality of a business’s products or services. It involves testing, monitoring, and fixing quality problems throughout the development cycle.

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Application development is the process of creating a computer program or a set of programs to perform the different tasks that a business requires. From calculating monthly expenses to scheduling sales reports, applications help businesses automate processes and increase efficiency.

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Structure charts are used in application development to represent the structure of a program or system. They are a type of diagram that shows the modules or components of a system and how they interact with each other. Structure charts are used to help developers understand the structure of a program and to identify potential problems or areas for improvement.

4

Regarding your question, classes should be loosely coupled in Object-Oriented Design (OOD). Loose coupling means that classes are designed to interact with each other as little as possible. This approach helps to reduce the dependencies between classes and makes it easier to modify or replace one class without affecting the others.

5

Pair programming is a software development technique in which two programmers work together at one workstation. One, the driver, writes code while the other, the observer or navigator, reviews each line of code as it is typed in. The two programmers switch roles frequently .

6

Integrated Development Environments (IDEs) are software applications that provide a comprehensive environment for software development. They combine a code editor, compiler, and debugger into a single application, making it easier for developers to write, test, and debug code. IDEs also provide features such as syntax highlighting, code completion, and version control, which can help to improve productivity and reduce errors.

7

There are three main types of testing: unit testing, integration testing, and system testing. Unit testing is the process of testing individual components of a system to ensure that they function correctly. Integration testing is the process of testing how different components of a system interact with each other. System testing is the process of testing the system as a whole to ensure that it meets the requirements and specifications. The order in which these tests are performed is typically unit testing, followed by integration testing, and then system testing.

8

Program documentation is used to describe the code of a software program. It includes comments, flowcharts, and diagrams that help developers understand how the program works. System documentation describes the system as a whole, including its architecture, design, and functionality. It includes requirements documents, design decisions, architecture descriptions, program source code, and FAQs. Operations documentation describes how to operate and maintain the system, including procedures for backups, recovery, and security. User documentation covers manuals that are mainly prepared for end-users of the product and system administrators.

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Online documentation plays a critical role in software development. It provides a centralized location for developers to access information about the system, including requirements, design decisions, and code documentation. Online documentation can help to improve productivity and reduce errors by providing developers with the information they need to work efficiently.

10

The difference between an operational environment and a test environment is that the operational environment is the environment in which the system is used by end-users. It is the environment in which the system must function correctly and meet the needs of the users. The test environment, on the other hand, is used to test the system before it is deployed to the operational environment. It is used to identify and fix any issues or problems with the system before it is used by end-users.