COMP.1.0.666. Help Weekhals:/heecture

Why Testing?

- How does this course fit in to my studies?
 - * Software Testing is a growing field and is becoming extremely important as software touches more of what we do on a daily basis ASSIGNMENT Project Exam Help
 - * As the complexity of software increases, testing has become more and more in positive increases, testing has become
 - An appreciation for testing results in programmers producing better code. Add WeChat powcoder
 - Many entry level positions software developers will be hired as testers first.

Lecture Summary

- What is Testing?
- What is Quality? Assignment Project Exam Help
- How can we determine the quality of anything?
- https://powcoder.com
 How do we relate Quality and Testing

Defining Software Testing

• Is an Empirical / methodical investigation conducted to provide information on a software program.

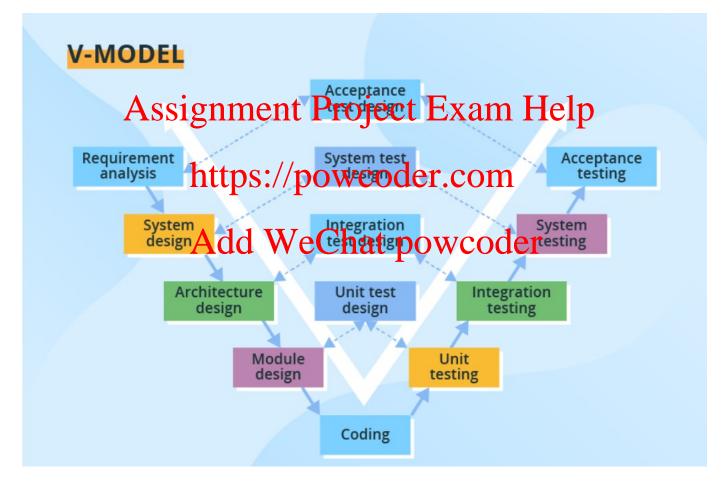
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Goal of Software Testing

- What is the goal of a Software Tester?
 - TO FIND BUGS.
 - To Find bus giventy responsible jethe Fortware Help development process and to make sure that they get fixed (in a reasonable time) https://powcoder.com

Types of Testing and Application



https://www.scnsoft.com/blog/software-development-models

Defining Quality Assurance (QA)

• Systematic Monitoring and evaluation of different aspects of a product to ensure that standards of quality are being used ignment Project Exam Help

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Goal of Quality Assurance

- What is the goal of Quality Assurance?
 - Ensure that processes and procedures are followed and to improve the process with the goal that process. Help improvements will result in improving the software.
 - * Will reduce the probability of bugs getting into the software in the sirst pace. Coder. com

Programmers Involvement in Testing

- Are programmers responsible for any of the activities involved in Software Quality and Testing? What are they? Assignment Project Exam Help
 - YES
 - Build code that is well-documented that follows best practices and provide proof that the code meets the specification

Defining ISO Certification

- What is ISO?
 - International Standards Organization
- · What is ISO 9000? Project Exam Help
 - Standard for Quality Assurance https://powcoder.com
- Name the two sections of the ISO standard that apply to Software Develoancht VeChat powcoder
 - 1. ISO 9001
 - 2. ISO 9000-3

ISO Certification

- What are the two main goals of the ISO 9000 process?
 - 1. Targets the Development Process How does an Organization complete its work Exam Help
 - 2. Tells an organization what process to follow to achieve quality.
 - https://powcoder.com
 What needs to be done Does not enforce a particular method.
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ISO 9000, ISO 9000-3

- Areas that need to be addressed for software development
- · Iso 9000-3, Primary Areas of Concern Exam Help

 - configuration management, https://powcoder.com
 - development planning
 quality planning

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 - design and implementation,
 - testing and validation
 - maintenance.

Software Testing Careers

- What are some of the different job titles associated with Software Testing?
 - · Test Tech Aigistignment Project Exam Help
 - Test Engineer
 - Software Testerhttps://powcoder.com
 - Test Automation Specialist
 - · Test Lead Test Alande Le Cel managew Coder
 - Test Manager Oversees all testing within an Organization
 - QA Engineer
 - Many software development jobs, also list software testing as a part of the job requirements

Traits of a Software Tester

- What are some of the important traits that a good software tester should have?
 - · Like to Exaloring nment Project Exam Help
 - Likes to Troubleshoot
 - Relentless https://powcoder.com
 - Creative Develop tests that will expose problems
 - · "Somewhat" of A Plante Wingsthat powcoder
 - Tactful and Diplomatic
 - Persuasive Needs to convince people of the importance of correcting the bugs.
 - Attention to detail

What makes Software high quality?

- Provide some of the attributes of High Quality Software:
 - 1. Accurate/Complete Documentation
 - 2. UI fallowisgtander Att for the jet vic En Sam Help
 - 3. Behaves: Accurately, Predictably, Reliably, Consistently
 - 4. Does whatteuser/procificatidesaysotyshould do.

Where does testing fall on the Software Development Lifecycle?

- Waterfall Thorough specification
 - Testing: A complete phase of testing once development is complete Assignment Project Exam Help

 Testing can be designed from the specification
 - - Should result in well defined accurate tests.com



https://pmvidya.com/blog/waterfall-model/

Where does testing fall on the Software Development Lifecycle?

- Evolutionary / Agile / Spiral
 - Testing: Test phases are integrated throughout the development cycle. Assignment Project Exam Help
 Core Tests can be run regressively as new features are added cycle.

Core tests must be designed well coder.com New test SPIRAL Risk analysis dd WeChat p of objectives, alternatives. and constraints

Risk Prototype 3 Prototype 2 Prototype 1 Detailed Software Requirements Code Development Validation Integration Acceptance Next iteration Development planning of deliverables

Limitations of Software Testing

- What are some of the realities or limitations of testing software that all parties involved in the development or use of software must be aware of the Exam Help
 - Not all bugs will be found / fixed in any significantly large system. https://powcoder.com
 You can't write tests for all cases

 - Some bugs are too risky to fix hat powcoder
 May break other components of a tightly integrated
 - system.
 - It may not be worth it to fix the bug
 - Limited number of users, simple workaround