11/1/22, 2:21 PM Load testing tests the system at levels of resource usage for which it was designed.

Stress testing tests it at levels of resource usage for which it was designed. Stress testing tests it at levels of resource usage beyond which it was designed. Stress testing tests the system at levels of resource usage for which it was designed. Load testing tests it at levels of resource usage beyond which it was designed. 'Mocking', in terms of testing, is... * 6 points the thorough testing of a single unit with multiple tests for every variety of argument the refactoring of code in order to make it more easily unit testable. the simulation of an external dependency to a unit test, such as a database, API, or Which of the following are advantages of using a code linter over manual * 6 points checking of code? Abates the risk of personal conflict within a team Checks for correct syntax faster than a human Checks for good code style faster than a human Identifies the same issues every time it is run on the same code What is the ideal ratio of test code to production code? * 6 points 1-to-1 2-to-1 5-to-1 There is no ratio that is ideal for all projects https://docs.google.com/forms/d/e/1FAIpQLSeNnVRaTzsBY8AtKeGgXL8-whs1K0HHyv0aH0FdqyFKeaS5Mg/viewforms/description-beta-based and the state of the s11/1/22, 2:21 PM Software Testing Ouiz A runction/method An object O A class How does Test-Driven Development (TDD) relate to a project's 'code * 6 points coverage'? Code coverage will vary tremendously from one project to another if TDD is followed, since each project is developed to meet its unique requirements. TDD uses more human-centric testing, and is thus cannot be analyzed reliably with a code coverage tool. With TDD, code coverage should always be near 100%, since production code is written to match the unit tests, rather than vice-versa. Imagine the following scenario: a software engineer earns \$100/hr. A given simple project requires a set of 100 unit tests. Each unit test takes an average of 3 minutes for the engineer to write. If automated, the unit tests take a total of 1 minute to run. If the tests are executed manually, the unit tests take a total of 10 minutes to run. How many times must the set of unit tests be run in order for the time savings they offer throughout the lifetime of the project to compensate for the up-front cost of their creation? 1 time 11 times

33 times44 times122 times

The smallest testable piece of code in a system

What does the term unit in "unit testing" refer to? (pick the best definition) * 6 points

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Software Testing Quiz

https://docs.google.com/forms/d/e/1FAIpQLSeNnVRaTzsBY8AtKeGgXL8-whs1K0HHyv0aH0FdqyFKeaSSMg/viewform

11/1/22, 2:21 PM Software Testing Quiz

Google Forms

Which static analysis tools have we discussed in class? *

Software integration testing tools

Software linting tools such as PyLint, ESLint, etc.

Software load testing tools

Software stress testing tools

Software unit testing tools, such as JUnit, PyUnit, mocha, etc

Why should unit tests follow the same standards of good code design for $\,\,^*$ 6 points your test code?

- Because, if properly testing code, there will be more unit tests than there are units of production code, so it is just as or more important that the testing code be of high quality.
- Because, if properly testing code, unit tests become a form of documentation of the requirements of the system being built, so they should be highly readable, commented, and maintainable.
- Because, if properly testing code, each test will be run many times throughout the
 ifetime of the development process, while developers may come and go, so it should be highly readable, commented, and maintainable.

A copy of your responses will be emailed to yw4142@nyu.edu.

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