

Post-activity Survey

Start of Block: Reflection

Please enter your email address

Page Break

What challenge(s) did you encounter when creating/editing the test cases?

Please name one thing you would have like to receive help with during the study

Page Break

Did you use the checklist during the study?

☐ Yes (1)

☐ No (2)

Display This Question:

If Did you use the checklist during the study? = Yes

How did you use the checklist? (Check ALL that apply)

☐

I read the checklist before I wrote any unit tests (1)

☐

I frequently consulted the checklist during unit testing (2)

☐

I consulted the checklist during unit testing, but not regularly (13)

☐

I used the checklist as a guide on what to test next (10)

☐

I used the checklist as a guide on when to stop unit testing (11)

☐

I walked through the checklist before I submitted the test code (12)

Display This Question:

If Did you use the checklist during the study? = Yes

How many unit tests (approximately, in percentage) in your test code satisfy the checklist items?

Display This Question:

If Did you use the checklist during the study? = Yes

Which items in the checklist were most useful? (Check ALL that apply)

- ☐ The test case is executable (i.e., it has an `@Test` annotation and can be run via "Run as JUnit Test") (4)
- ☐ The test case has at least one assert statement or asserts an exception is thrown (5)
- ☐ The test case evaluates/tests only one method (6)
- ☐ The test case is descriptively named and commented (8)
- ☐ If there is redundant setup code in multiple test cases, extract it into a common method (e.g., using `@Before`) (7)
- ☐ If there are too many assert statements in a single test case (e.g., more than 5), you might split it up so each test evaluates one behavior. (17)
- ☐ The test suite has at least one test for each requirement (9)
- ☐ The test suite appropriately uses the setup and teardown code (e.g., `@Before`, which runs before each `@Test`) (10)
- ☐ The test suite contains a fault-revealing test for each bug in the code (i.e., a test that fails) (11)
- ☐ For each requirement, the test suite contains unit tests for: Valid inputs (12)
- ☐ For each requirement, the test suite contains unit tests for: Boundary cases (13)
- ☐ For each requirement, the test suite contains unit tests for: Invalid inputs (14)
- ☐ For each requirement, the test suite contains unit tests for: Expected exceptions (15)



To improve the test suite, you could measure code coverage using an appropriate tool, such as EclEmma (installation, tutorial). Inspect uncovered code and write tests as appropriate. (16)

Page Break

Display This Question:

If Did you use the checklist during the study? = Yes

How would you rate this checklist in terms of helpfulness?

- ☐ Extremely helpful (11)
 - ☐ Very helpful (12)
 - ☐ Moderately helpful (13)
 - ☐ Slightly helpful (14)
 - ☐ Not at all helpful (15)
-

Display This Question:

If Did you use the checklist during the study? = Yes

Was anything about the checklist unclear or confusing?

Display This Question:

If Did you use the checklist during the study? = No

Please briefly explain why you chose not to use the checklist

If you could change just one thing about this checklist, what would it be?

End of Block: Reflection

Start of Block: Demographics

What's your occupation?

☐

Undergraduate student (1)

☐

Graduate student (2)

☐

Student with working experience in the industry (3)

☐

University faculty (4)

☐

Professional developer/tester (5)

☐

Other: (6) _____

Page Break

How many years of programming experience do you have?

How do you describe your experience in programming?

- ☐ No experience (1)
- ☐ Novice (2)
- ☐ Advanced beginner (3)
- ☐ Competent (4)
- ☐ Proficient (5)
- ☐ Expert (6)

Page Break

How many years of programming experience with Java do you have?

How do you describe your experience in Java?

- ☐ No experience (1)
- ☐ Novice (2)
- ☐ Advanced beginner (3)
- ☐ Competent (4)
- ☐ Proficient (5)
- ☐ Expert (6)

Page Break

How many years of experience with unit testing do you have?

How do you describe your experience in unit testing?

- ☐ No experience (1)
- ☐ Novice (2)
- ☐ Advanced beginner (3)
- ☐ Competent (4)
- ☐ Proficient (5)
- ☐ Expert (6)

Page Break

Have you ever taken or are you currently taking a Computer Science course that involves Unit Testing?

☐ Yes (1)

☐ No (2)

Have you ever taken or are you currently taking a Computer Science course on Software Testing?

☐ Yes (1)

☐ No (2)

Page Break

What's your gender?

- ☐ Woman (1)
- ☐ Man (2)
- ☐ Non-binary (3)
- ☐ Prefer not to disclose (4)
- ☐ Prefer to self-describe: (5) _____

End of Block: Demographics
