COMP 10066

Wee...e

Explorator... esting

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Exploratory Testing

- Exploratory testing is often thought of as a <u>black box testing technique</u>

- Instead, those who have studied it consider it a test *approach* that can be applied   in the development proc

- The key is not the test technique nor the   d or reviewed; **the key is the active engage**   r, and the tester's responsibility for managing h

Black Box Testing

- Testing that is done where <u>access to the program source code is not available</u> and/or needed.

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Black Box Testing

- The test technique is executed by applying an <u>input</u> that will produce a <u>known response that can be evaluated for correctness</u>.
  - Correctness can be evaluated against either a known (expected) response/result that has been specified in the requirements
  - OR Confirmed a   t.
    - Independent/Ex https://eduassistpro.github.io/

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Test to Pass

- Normal data that a user would enter into an application.

- User is using the program as expected
  - Not in a malicious manner or attempt to break it

- Normal Data defin
  - For domain speci   e or has been provided with this knowledge.
  - Example: Postal code in Canada vs Zip c
    - Application may guide user on normal data

- It is expected that the program will *accept AND produce the correct output* based on Test to Pass data.

Test to Fail

- Data sets that are not acceptable.

- User is not using the program as expected

- It is expected that the program will *NOT accept or use the data and that it will not _____ impact the program in other _____*

- An error message or correct guidance is

Test Case Outcome / Result

- A test case has a successful or not successful outcome

- Successful Test Case
  - Expected Result matches the Actual Result

- Not Successful Te
  - Expected Result
  - Need to investigate and confirm issue
    - Leads to more test cases
  - Once issue is confirmed, then a bug would need to be raised

- Both Test to Pass and Test to Fail will have an outcome (Successful or Not Successful)

Test Cases

- Each Test Data set (input) will form the basis of a single Test Case.

- Things to think about when creating test cases
  - How many Test
  - When do we stop
  - What do we emp
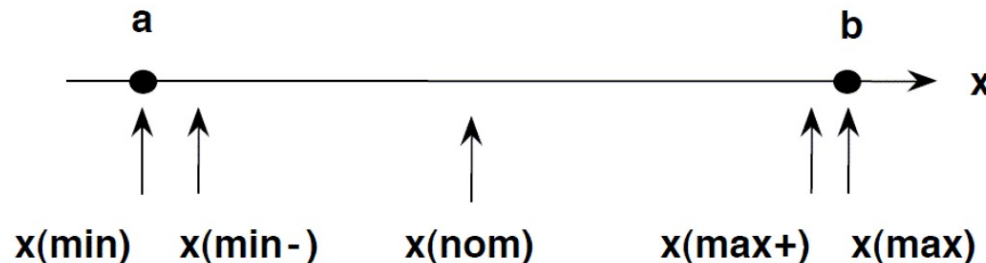   - Test to Pass
    - Test to Fail

Boundary Testing

- It is not feasible to test every single input value

- Bugs are more likely to occur at the bounds of a input value

- Example: More likely to have a bug at the bounds of an array

  - try to access arra t the last element

- Therefore, when selecting values to test, test at and around the bounds

Boundary Analysis and Equivalence Partitioning

- Given a single input, which has a valid range of 1 to 10

- Determine the best values to use in testing, to ensure good data coverage

- Don't forget to thit cases

Boundary Analysis and Equivalence Partitioning

- Given a single input, which has a valid range of 1 to 10

- Select test data in each partition, at the boundaries

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