COMP 3111
SOFTWARE ENGINEERING

LECTURE 14
TESTING
BLACK BOX TESTING EXERCISE

EXERCISE: MOVIE SHOP BLACKBOX TESTING

Validate Rating

In the movie sales and rental shop system, there is a procedure to validate the review rating input by the user. Recall that a review can be given a rating, which is an integer value, from 1 to 5.

> **For each of the test categories below, what test cases and specific test values should be used to test whether the validateRating procedure works correctly and accepts only valid rating values?**
>
> (a) boundary
>
> (b) typical
>
> (c) other

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We need to decide whether to treat the input values as a range or as a set of values. Since the number of allowed values is small, five in total, we can treat them as a set of values and test all of them. However, since the input values are also integers, we should also apply the tests for a range of values. We choose to do both and use the following test cases and values.

Boundary values

Test Case	Test Value
1. Minimum range—invalid rating	0
2. Maximum range—invalid rating	6

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Member of set/typical values

Test Case	Test Value
3. Set member/in range—valid rating	1
4. Set member/in range—valid rating	2
5. Set member/in range—valid rating	3
6. Set member/in range—valid rating	4
7. Set member/in range—valid rating	5
8. Below range—invalid rating	-5
9. Above range—invalid rating	9

Other values

Test Case	Test Value
10. Numeric decimal—invalid rating	2.5
11. Non-numeric value—invalid rating	P
12. No input—invalid rating	
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