Introduction to IT. Companies and projects. The concept of testing. The main ISTQB standards

Assignment

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- **Choose** an object from your environment (e.g., a cup, laptop, car, T-shirt, etc.) and try to test it. Explain why you chose a particular test.
- **Explain** the definition of validation and verification in your own words.

1. Laptop - Keyboard - Backlight feature : Non Functional Test

I have picked this type of test to focus on ensuring that this feature is solid on the following aspects:

Performance :
The backlight feature should run when activated.
It shouldn't encounter bottlenecks.
It should stay on during its activated state - the feature should not fail.

Load :
The backlight feature runs regardless of switching light levels from none to max.
It shouldn't be affected by the speed of switching those levels.

Stress test :
The backlight feature runs in the abnormal conditions:
Example: spilled coffee / water , smashed keys.

Volume test :
The backlight feature keeps running regardless of the source that powers it : running on battery or charging the laptop. The volume of power should not affect its functionalities.

Security test :
The backlit feature should not flaw the functionalities of the laptop.
Example: interfere with keyboard input, affect electrical output to other components, etc.
I chose this type of test because I view it as an important step in the decision to pass the products or features to the consumers. On a personal note, I find this type of testing more natural and appealing to me, since I was mostly in the consumer's role and I have a talent for breaking things or detecting flaws. I am more drawn into this area of testing and I consider it crucial before releasing it to customers like myself 😂 also I focused on the mechanical and electric aspects of the tested product, thus it's not a precise example according to the syllabus.

2. In my own words : Validation and Verification

I understand that the **verification test** is preliminary for a certain feature, such as the backlit keyboard example, where the **requirements are met**.
The demand would sound like this :
'A keyboard that lights up its keys when the user activates it'.
Requirements would be : Integration of wiring/electrical configuration, an ON and OFF switch option, etc.
User story : Users should be able to access and use the feature at their disposal.
If these aspects are exactly what a backlit keyboard needs and is supposed to perform, and are possible to **implement** and meet the requirements completely then it passed the test.

I regard the **validation test** as the next step, after verification, into a more practical aspect.
What I mean by that is, the feature has its planning, resources, implementation and meets the requirements. But is it necessary according to the user's satisfaction to have it? It is done, it is **tested** but it does not **meet the expectations** of final users.
(ex. It's not a special feature anymore, it bugs the visual field of users when using it, etc.).

I corrected my own words according to the class today where I understood in depth these terms, Thank you ! 😀