Module Data quality

Task 1 -Daviti Matiashvili

My name starts with D so I chose desk lamp as object. I think it’s neither too complex or too simple.

Description of my object- Desk lamp is a small, portable light fixture designed to be placed on a desk or table. It's commonly used for reading, studying, or working in low-light conditions. Desk lamps can vary in complexity but usually include adjustable arms, light brightness settings, touch or button controls, and sometimes even USB ports or wireless charging pads.

Now I will create table for checklist

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test case | Test type | Test Category | Automation possibility | Positive/Negative |
| Lamp turns on when power button is pressed | Functional | |  | | --- | |  |  |  | | --- | | Smoke | | Yes | Positive |
| Lamp turns off when power button is pressed again | Functional | Smoke | Yes | Positive |
| Lamp does not respond when unplugged | Functional | Smoke | Yes | Negative |
| USB charging port works | Functional | Critical | |  | | --- | |  |  |  | | --- | | Yes | | Positive |
| Pressing multiple buttons at once doesn’t cause error | Negative | Extended | Maybe | Negative |

1.Lamp turns on when power button is pressed

Test type: Functional - Checks that a main function (turning on) works.

Test category: Smoke - Basic functionality test to see if the product is usable at all.

Automation: Yes - Can be simulated with automation (e.g., simulate power button).

Positive - Expected behavior is working.

2. Lamp turns off when power button is pressed again  
 Test type: Functional – Verifies core feature (turning off).  
 Test category: Smoke – Basic operation for regular use.  
 Automation: Yes – Easily testable via automation.  
 Positive – Expected shutdown behavior.

3. Lamp does not respond when unplugged  
 Test type: Functional – Confirms the lamp behaves correctly without power.  
 Test category: Smoke – Must not operate when there's no power.  
 Automation: Yes – Can simulate unplugged condition.  
 Negative – Expected failure behavior.

4. USB port charges connected device  
Test type: Functional – Checks additional features.  
Test category: Critical – Important if lamp includes USB charging.  
Automation: No – Requires manual check with a device.  
Positive – Device receives power.

5. Pressing On/Off rapidly does not cause malfunction  
Test type: Stability – Checks software/hardware reliability under stress.  
Test category: Extended – Ensures the lamp is durable in real-world use.  
Automation: No – Manual rapid-press test.  
Negative – Expected to still function normally.