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| **User Story / Requirement ID** | **User Story/Requirement Under Test** | |
| DINA679 | As Iron Man Suit Pilot, I want that my air flaps have 0° to 85° degrees of opening for better flying control. | |
| ***Is it valid?*** |
| Yes. |
| ***If not valid, what is the new/Extra information from Marketing/Product Owner?*** | | |
| 1. Is 0° the same as the flaps being completely shut? Is 85° the same as the flaps being completely open? What is the reference for angle measure? The 0° equal to the flaps shut, the 85° are completely open, the reference angle is from the surface of the Suit.  2. What actuators are involved in the air flapping system? They are servomotors. | | |
| **Test Case ID** | **Test Case Name Temperance** | |
| TRAE679 | Flaps’ degree opening assurance. | |
| **Test Case Steps** | | |
| **Step Number** | **Step description** | **Expected Result** |
| **1** | The Suit will be instructed to fully close the flaps. | The flaps will appear to be shut. |
| **2** | The testing team will place a protractor at the surface level of the suit and measure the angle of the flaps. | The flaps will measure 0° from surface level. |
| **3** | The Suit will be instructed to fully open the flaps. | The flaps will appear to be open. |
| **4** | The testing team will place a protractor at the surface level of the suit and measure the angle of the flaps. | The flaps will measure 85° from surface level. |
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| **User Story / Requirement ID** | **User Story/Requirement Under Test** | |
| DINA680 | As Sith Knight, I want that my light saber firmware turns off my saber when kyber crystal gets overheated (1420°F). | |
| ***Is it valid?*** |
| Yes. |
| ***If not valid, what is the new/Extra information from Marketing/Product Owner?*** | | |
| 1. Is there any liability for the device being destroyed due to the firmware failing to shut down the saber? The device may be destroyed in the process with no liability.  2. Is the saber battery powered? How is it energized? The provided saber will have enough battery to be on for 5 hours.  3. What other materials in the lightsaber are sensible to heat? Will these materials fail before we reach the testing temperature? We are only worried about the kyber crystal. | | |
| **Test Case ID** | **Test Case Name Temperance** | |
| TRAE680 | Firmware heat safety shutdown system. | |
| **Test Case Steps** | | |
| **Step Number** | **Step description** | **Expected Result** |
| **1** | The saber will be turned on and placed in an enclosed space with temperature sensors and a camera. | The sensed temperature will increase for the time it’s on. |
| **2** | The testing team will wait until the room reaches 1420°F. | Through the camera, the lightsaber will turn off. |
| **3** | If the lightsaber does not have enough battery to reach the target temperature, the saber will be recharged, turned on, and a heater will be turned on inside the enclosed room. | Through the camera, the lightsaber will turn off. |
| **4** | The light saber cannot turn on until the temperature decreases at least 200 °F | The saber cannot work if the temperature doesn’t decrease to a safety level. |
| **5** | Implement the inner circuit based on components capable of resist high temperatures only. | The circuit of the saber works in an efficient way. |
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**Activities on GitHub**

On the GitHub repository of your project: in teams, analyze the following user stories and create a *test case* for each of them:

1.- As Iron Man Suit Pilot, I want that my air flaps have 0° to 85° degrees of opening for better flying control.

2.- As Sith Knight, I want that my light saber firmware turns off my saber when kyber crystal gets overheated (1420°F).

*Commit your test case on your GitHub repository as it was taught on the* Introduction to Control Version *Module****.***

***Do NOT forget add this instructions file!***

Send an email to the following engineers with the link of your GitHub repository. Attached files will not be accepted.

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**Activity: TestCases; Team: <name of your team>**

Delivery date: October 5, 2019 at 22:10 hrs.