SOFTWARE TESTING ASSIGNMENT

ROBODOG

I. Specification

Robodog is an interactive puppy that is able to react to commands and touch.

Its functionality has the following specification:

- When it hears the command „speak” it starts barking.

- While barking, the robodog waits for the command 'quiet', then stops barking or waits to get petted.

- For this latter event Robodog stops barking, wags his tail for 5 seconds, then starts barking again.

- However, after the third time petting the flustered Robodog, it stops barking, wags his tail for 5 seconds, and then goes to quiet.

- When the silent Robodog sensors spot a Robocat, then the Robodog starts barking.

- During an action the Robodog does not accept any other commands.

II. Test cases

TC01 - Display „barking” when command is set to „Speak”

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| **Test steps** | 1. Open the command tab.  2. Select the option „Speak”.  3. Press „Send Command” button. |
| **Expected result** | Action field displays „barking”. |

TC02 - Display „wagging tail, and waiting for petting!” or „none” when command is set to „Quiet”

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| **Test steps** | 1. Open the command tab.  2. Select the option „Quiet”.  3. Press „Send Command” button. |
| **Expected result** | Action field displays either „wagging tail, and waiting for petting!” or „none”. |

TC03 - Display „wagging tail, pleased!” when command is set to „Pet”

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| **Test steps** | 1. Open the command tab.  2. Select the option „Pet”.  3. Press „Send Command” button. |
| **Expected result** | Action field displays „wagging tail, pleased!”. |

TC04 - Display „wagging tail, and waiting for petting!” or „none” when command is set to „Quiet” after „Speak”

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| **Test steps** | 1. Open the command tab.  2. Select the option „Speak”.  3. Press „Send Command” button.  4. Open the command tab.  5. Select the option „Quiet”.  6. Press „Send Command” button. |
| **Expected result** | Action field displays either „wagging tail, pleased!” or „none”. |

TC05 - Display „wagging tail, pleased!” when command is set to „Pet” after „Speak”

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| **Test steps** | 1. Open the command tab.  2. Select the option „Speak”.  3. Press „Send Command” button.  4. Open the command tab.  5. Select the option „Pet”.  6. Press „Send Command” button. |
| **Expected result** | Action field displays „wagging tail, pleased!”. |

TC06 – Display „barking” 5 seconds after command is set to „Pet” after „Speak”

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| **Test steps** | 1. Open the command tab.  2. Select the option „Speak”.  3. Press „Send Command” button.  4. Open the command tab.  5. Select the option „Pet”.  6. Press „Send Command” button.  7. Wait 5 seconds. |
| **Expected result** | Action field displays „barking”. |

TC07 – Display „none” 5 seconds after command is set to „Pet” 3 consecutive times

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| **Test steps** | Pre-requisite: The last command sent has not been the option „Pet”.  1. Open the command tab.  2. Select the option „Pet”.  3. Press „Send Command” button.  4. Open the command tab.  5. Select the option „Pet”.  6. Press „Send Command” button.  7. Wait 5 seconds.  8. Open the command tab.  9. Select the option „Pet”.  10. Press „Send Command” button.  11. Wait 5 seconds. |
| **Expected result** | Action field displays „none”. |

TC08 – „Send command” button is disabled while robodog is executing the action after „Pet” command

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| **Test steps** | 1. Open the command tab.  2. Select the option „Pet”.  3. Press „Send Command” button. |
| **Expected result** | „Send Command” button is disabled for 5 seconds. |

TC09 – „Send command” button is disabled while robodog is executing the action after „Quiet” command

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| **Test steps** | 1. Open the command tab.  2. Select the option „Quiet”.  3. Press „Send Command” button. |
| **Expected result** | „Send Command” button is disabled for 5 seconds. |

III. Bugs

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| ID number | #001 |
| Name | Barking dog after three times of petting |
| Reporter | Kelemen, R. |
| Submit Date | 04/19/2021 |
| Summary | When robodog has been pet 3 consecutive times action field displays “barking” |
| URL | www.example.com/robodog |
| Screenshot | robodog.png |
| Platform | Mac |
| Operating System | OS X 10.12.0 |
| Browser | Chrome 80.0.3987.87 |
| Severity | Major |
| Assigned to | Dancs, T. |
| Priority | High |

Description

When robodog has been pet 3 consecutive times it keeps barking.

Steps to reproduce

Pre-requisite: “Pet” command has been used previously.

1. Open the command tab.

2. Select the option „Pet”.

3. Press „Send Command” button.

4. Open the command tab.

5. Select the option „Pet”.

6. Press „Send Command” button.

7. Wait 5 seconds.

8. Open the command tab.

9. Select the option „Pet”.

10. Press „Send Command” button.

11. Wait 5 seconds.

Expected result

Action field displays „none”.

Actual result

Action field displays „barking”.

Notes

flusterLevel counter is not only increasing after consecutive „Pet” commands. This results in the failure of TC07 in our test suite containing previous „Pet” commands.