Assignment 5 Test plan

Testing for Morse Code App

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| Test Case: 1 & 2 | |
| Testing Method: Black box testing | Test Designed by: Viraj Jayasinghe  Test Designed date: 14/05/2017  Test Executed by: Pengcheng Xia  Test Execution date:14/05/2017 |
| Test Priority: High |
| Test Title: To test app server’ function to classify incoming motion.  Description: Test whether the server side of the morse code app can correctly determine the incoming motion is short or long. | |
| Pre-conditions:  1.Tester should know how to handle the Morse code app and the functioning of it.  2.The motion sensor should be in working condition. I.e. Sensor is correctly connected to the board. | |

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| Step  No. | Test case | Expected result | Actual result | Status |
| 1. | Check whether the motion sensor is correctly connected to the board. | Motion sensor should be placed correctly | Motion sensor is connected and working | Pass |
| 2. | Give motions to the sensor in pattern of long-motion (6 second), 1 second gap, short-motion(1 second), 1 second gap, short-motion(1 second). | Uploads “L”, “S”, “S” | “L”, “S” and “S” are uploaded to the firebase database one after the other | Pass |

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| Step  No. | Test case | Expected result | Actual result | Status |
| 1. | Check whether the motion sensor is correctly connected to the board. | Motion sensor should be placed correctly | Motion sensor is connected and working | Pass |
| 2. | Give motions to the sensor in pattern of short-motion (1 second), 4 second gap, then a long motion(20 second) | Uploads “S”, “new\_letter”, “L” | From top to bottom, firebase has “L”, “new\_letter” and “S” | Pass |

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| Test Case ID: 3&4 | |
| Testing Method: Black box testing | Test Designed by: Viraj Jayasinghe  Test Designed date: 14/05/2017  Test Executed by: Pengcheng Xia  Test Execution date:14/05/2017 |
| Test Priority: High |
| Test Title: To test the client’ function to convert sequence of Morse code into letter.  Description: Test whether the client has the ability to decode the motion sensor messages to be decoded into English letters based on Morse code coding table | |
| Pre-conditions:  1.Tester should know how to handle the morse code app and the functioning of it.  2.The motion sensor should be in working condition. I.e. Sensor is correctly connected to the board. | |

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| Step  No. | Test case | Expected result | Actual result | Status |
| 1. | Check whether the motion sensor is correctly connected to the board. | Motion sensor should be placed correctly | Motion sensor is connected and working | Pass |
| 2. | Give motions to the sensor in pattern of short, short, short, pause for 3 second, then long ,short, long. | The output should be ‘S K’, including the space | The output is ‘S K’, with space included | pass |

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| Step  No. | Test case | Expected result | Actual result | Status |
| 1. | Check whether the motion sensor is correctly connected to the board. | Motion sensor should be placed correctly | Motion sensor is connected and working | Pass |
| 2. | Give motions to the sensor in pattern of short, short, short, ,short, short, short. | Pattern doesn’t exist, output should be null | The output is ‘null’ | pass |