## Test Plan 1

# Testing for a long or short motion at the server

Description

To test for a long or short motion is an imperative task, a very important base for the morse code detector as the letters and words are described by short and long motions. A long motion is defined as any motion that is greater than or equal to 8000 ms, and a short motion is anything less than.

Using mocha and chai to to test the results of the function getMotion, it is simply run by typing mocha app.js.

Test cases

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| --- | --- | --- | --- | --- |
| **Test Case** | **Description** | **Inputs** | **Expected Result** | **Actual Result** |
| Short motion/1000 ms | A short motion is recognised as false, so given a time less than 8000, it should return false | Time value of 2 seconds | false | false |
| Long motion/9000 ms | A long motion is defined as being greater or equal to 8000ms, so it should return true indicating a long motion | Time value of 9 seconds | true | true |
| No motion/0 ms | A motion of 0 ms is recognised as an absence of a motion so the returning value should be -1 indicating no motion | Time value of -1 seconds | -1 | -1 |