**Test Plan 2**

Testing the Decoder

**Summary:**

In this test, we look at a key feature I.e. the decoder. The decoder is responsible to receive signals and translate/ decode them into letters & words. Once signals are received, the decoder compares them to data in a Morse Code Table and returns the matching letter.

This test is implemented using the Mocha & Chai framework. To run this test, one would need to key in mocha (test file) in the command prompt.

**Test:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test case | Inputs | Expected Result | Actual Result | Pass |
| Return single alphabet | SignalString: ‘SL’  idletime: 4 seconds | Returns alphabet ‘A’ | Returns alphabet ‘A’ | Yes |
| Return a word | SignalString: ‘SL’  Idletime: 4 seconds  Followed by  SignalString: ‘LSSS’  Idletime: 5 seconds | Returns word  ‘AB’ | Returns word  ‘AB’ | Yes |
| When signal is not in Morse code table | SignalString: ‘SLSSSSSSSSSSSS’  Idletime: 9 seconds  Followed by  SignalString: ‘SL’  Idletime: 5 seconds | Returns Letter ‘A’ | Returns Letter ‘A’ | Yes |
| Return a letter with a space | SignalString: ‘SL’  Idletime: 9 seconds  Followed by  SignalString: ‘LSSS’  Idletime: 5 seconds | Returns ‘A B’ | Returns ‘A B’ | Yes |