Testing of Ford mHealth Demo Application - Additional Features and fixes

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| **Test Case Name** |
| Vehicle Live Stream testing |

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| **Test Case ID** | TC1 | **Created By** | Manu Jaggi |
| **Functional Description** | Live stream doesn’t work when Bluetooth on the mobile device is not enabled |  | 15-Jan-2015 |

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| **Requirements Covered** |
| Live stream data over BT interface channel |

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| **Purpose of test** |
| To test live stream vehicle data from VI device to Mobile device over the BT channel. |

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| **Input Test Data** |
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| **Prerequisites** |
| * Install the given apk **(FordmHealthDemo.apk)** on Android Tab/phone using with a normal installation process.      * VI setup in the Ford vehicle * ***Phone / Tab prerequisite (common in all test cases): ver 4.0 and above; Bluetooth enabled; screen size 5” or more; GPS enabled; Internet enabled*** |

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| **Test Steps** |
| |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC1.01** | Attach the VI Unit with OBD port of ford Figo car.  Start the Car to ignition on state | One blue light of VI device glows | | **TC1.02** | On the mobile device (phone/tab) disable the Bluetooth from settings option. |  | | **TC1.03** | Start the mHealth demo app on mobile device (giving initial set of inputs for server IP/ Port no, etc.)  Select the ‘**Real Data Feed’** option on startup. | Dashboard screen of app appears  No vehicle data shows up on the screen, except the latitude and longitude if the GPS of the device is enabled. After the set upload interval elapses, ‘No Vehicle Data Available  ’ shows up on top right corner. | |
| **Actual Outcome** |
| |  |  | | --- | --- | | **TC1.01** | One blue light of VI device glows | | **TC1.03** | Dashboard screen appears with no vehicle data | |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC1.03** | 15-Jan-2015 | Manu Jaggi | C:\Users\jaggi.m\Desktop\Screenshot_2015-01-15-15-02-10.png | |

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| **Test Case Name** |
| Vehicle Live Stream testing |

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| **Test Case ID** | TC2 | **Created By** | Manu Jaggi |
| **Functional Description** | Live stream doesn’t work when Bluetooth on the mobile device is enabled |  | 15-Jan-2015 |

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| **Requirements Covered** |
| Live stream data over BT interface channel |

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| **Purpose of test** |
| To test live stream vehicle data from VI device to Mobile device over the BT channel. |

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| **Input Test Data** |
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| **Prerequisites** |
| * Install the given apk **(FordmHealthDemo.apk)** on Android Tab/phone using with a normal installation process.      * VI setup in the Ford vehicle * ***Phone / Tab prerequisite (common in all test cases): ver 4.0 and above; Bluetooth enabled; screen size 5” or more; GPS enabled; Internet enabled*** |

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| **Test Steps** |
| |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC1.01** | Attach the VI Unit with OBD port of ford Figo car.  Start the Car to ignition on state | One blue light of VI device glows | | **TC1.02** | On the mobile device (phone/tab) enable the Bluetooth from settings option. | Both blue lights of VI device glows | | **TC1.03** | Start the mHealth demo app on mobile device (giving initial set of inputs for server IP/ Port no, etc.)  Select the ‘**Real Data Feed’** option on startup. | Dashboard screen of app appears  Vehicle data shows up on the screen and it starts uploading in the set interval. | |  |  |  | |
| **Actual Outcome** |
| |  |  | | --- | --- | | **TC2.02** | Both blue light of VI device glows. | | **TC2.03** | Vehicle data starts sowing up on the screen. |   **Screen shots at each stage as captured below -** |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC2.03** | 15-Jan-2015 | Manu Jaggi | D:\Ford\2015-01-15\Test Case\Screenshot_2015-01-15-18-16-11.png | |

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| **Test Case Name** |
| Application responsiveness on different tabs. |

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| **Test Case ID** | TC3 | **Created By** | Manu Jaggi |
| **Functional Description** | Enable user to select the tabs without being unresponsive |  | 15-Jan-2015 |

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| **Requirements Covered** |
| To test the tabs are not unresponsive when selecting the ‘Current Vehicle Route’ (last tab) even on low network. |

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| **Purpose of test** |
| Test that all the tabs are functional and responsive even on low network. |

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| **Input Test Data** |
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| **Prerequisites** |
| * Install the given apk **(FordmHealthDemo.apk)** on Android Tab/phone using with a normal installation process. * ***Phone / Tab prerequisite (common in all test cases): ver 4.0 and above; Bluetooth enabled; screen size 5” or more; GPS enabled; Internet enabled*** |

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| **Test Steps** |
| |  |  |  | | --- | --- | --- | | **#** | **Description** | **Expected Outcome** | | **TC3.01** | On mobile network (or low network) select the ‘Current Vehicle Route’ (last tab) in the application and see that all other tabs are also responsive while it is fetching the data from the cloud. | All tabs are responsive and user can switch over to other tabs. | | **TC3.02** | Switch over to other tab (like dashboard etc). After couple of minutes switch back to ‘Current Vehicle Route’ tab. | * Route list instantly displays. * ‘Retrieving Data from Cloud’ toast message appears. * After some time (when the response is received) onscreen list gets updated with additional records. | |
| **Actual Outcome** |
| |  |  | | --- | --- | | **TC3.01** | All tabs are accessible and could be switched over to without any unresponsiveness. | | **TC3.02** | List of records displays successfully. | |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC3.01** | 14-Jan-2015 | Manu Jaggi | C:\Users\jaggi.m\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\Screenshot_2015-01-15-15-01-35.png | | **TC3.02** | 14-Jan-2015 | Manu Jaggi | C:\Users\jaggi.m\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\Screenshot_2015-01-15-15-01-35.png | |

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| **Test Case Name** |
| Upload data interval selection configuration. |

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| **Test Case ID** | TC4 | **Created By** | Manu Jaggi |
| **Functional Description** | Upload data interval is made configurable. |  | 15-Jan - 2015 |

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| **Requirements Covered** |
| Select the uploading interval manually and data uploads as per given interval selection. |

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| **Purpose of test** |
| To select the right interval for data uploading on server. |

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| **Input Test Data** |
| Select time interval (in seconds) by selecting interval from drop down list (15, 30, 45 and 60) seconds. |

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| **Test Steps** |
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| **Actual Outcome** |
| |  |  | | --- | --- | | **TC4.01** | Time interval selection is done. | | **TC4.02** | Data upload can be observed at the set time interval. | |

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| **Results** |
| |  |  |  |  | | --- | --- | --- | --- | | **#** | **Date Run** | **Run By** | **Results** | | **TC4.01** | 15-Jan-2015 | Manu Jaggi | C:\Users\jaggi.m\Desktop\Screenshot_2015-01-15-15-52-30.png | |

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