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| **Use Case: Log In** | | | | |
| **Test Case ID** | **Condition/Scenario** | **Test Data & Settings** | | **Expected Output** |
| **Username** | **Password** |
| Login001 | Successful Login | “Peter” | “234567” | Main hub screen displayed |
| Login002 | Invalid Username | “ASDFGHJK” | N/A | Error message: “Invalid username” |
| Login003 | Incorrect Password | N/A | “password” | Error message: “Incorrect password” |
| Login004 | Username Field Empty | “” | N/A | Error message: “Username field is empty” |
| Login005 | Password Field Empty | N/A | “” | Error message: “Password field is empty” |
| Login006 | Username and Password Fields Empty | “” | “” | Error message: “Username and password fields are empty” |
| Login007 | User Quits Dialog Box | N/A | N/A | Application closes |
| Login008 | System Cannot Access User Database | N/A | N/A | Throw exception |

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| **Use Case: Transport Discontinued** | | | | |
| **Test Case ID** | **Condition/Scenario** | **Test Data & Settings** | | **Expected Output** |
| **Routes Available** | **Route Selected** |
| TDiscontinued001 | Successfully Deleted Route | Yes | Yes | Route Deleted; Confirmation Message: “Route (name) is now no longer available” |
| TDiscontinued002 | No Routes Available to Delete | No | N/A | Error message: “There are currently no available routes” |
| TDiscontinued003 | Route Not Selected | Yes | No | Error message: “Route not selected” |
| TDiscontinued004 | User Quits Application | N/A | N/A | Application closes |
| TDiscontinued005 | User Presses Back Button | N/A | N/A | Returns user to the main hub screen |
| TDiscontinued006 | System Cannot Access Route Database | N/A | N/A | Error message: “Cannot access route database” |

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| **Use Case: Update Transport Cost** | | | | | |
| **Test Case ID** | **Condition/Scenario** | **Test Data & Settings** | | | **Expected Output** |
| **Routes Available** | **Route Selected** | **Valid Format** |
| UpdateTransportCost001 | Successfully Updated Transport Cost | Yes | Yes | Yes | Transport cost updated; Confirmation Message: “Transport cost updated from … to … |
| UpdateTransportCost002 | Invalid Format | No | N/A | No | Display error message/s showing the variable/s with invalid format |
| UpdateTransportCost003 | User Quits Application | N/A | N/A | N/A | Application closes |
| UpdateTransportCost004 | User Quits Dialog Box | N/A | N/A | N/A | Returns user to the main hub screen |
| UpdateTransportCost005 | System Cannot Connect to Route Database | N/A | N/A | N/A | Error message: “Cannot access route database” |
| UpdateTransportCost010 | No Routes Available to Delete | No | N/A | N/A | Display message: “There are currently no available routes” |
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