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| getRequestDictForAction:andHumanMessage: - toggle request | |
| Description: | This test ensures that the getRequestDictForAction:andHumanMessage: correctly creates a toggle request.  Parameters: 0, “Toggle”  Properties: self.deviceID = @”George”, self.password = @”password” |
| Expected Result: | Valid request dictionary with action: 0, humanMessage: Toggle, deviceID: George,password: password, Type:str |
| Actual Result: | {  HRDeviceRequest =  {  Data = 0;  DeviceID = George;  HumanMessage = Toggle;  Password: password;  Type: str;  };  } |
| Pass/Fail: | Pass |

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| getRequestDictForAction:andHumanMessage: - query request | |
| Description: | This test ensures that the getRequestDictForAction:andHumanMessage: correctly creates a query request.  Parameters: 1, “Query”  Properties: self.deviceID = @”George”, self.password = @”password” |
| Expected Result: | Valid request dictionary with action: 1, humanMessage: Query, deviceID: George,password: password, Type:str |
| Actual Result: | {  HRDeviceRequest =  {  Data = 1;  DeviceID = George;  HumanMessage = Query;  Password: password;  Type: str;  };  } |
| Pass/Fail: | Pass |

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| getRequestDictForAction:andHumanMessage: - nil human request | |
| Description: | This test ensures that a nil human message doesn’t break getRequestDictForAction:andHumanMessage:.  Parameters: 1, nil  Properties: self.deviceID = @”George”, self.password = @”password” |
| Expected Result: | Valid request dictionary with action: 1, humanMessage: “(null)”, deviceID: George,password: password, Type:str |
| Actual Result: | {  HRDeviceRequest =  {  Data = 1;  DeviceID = George;  HumanMessage = “(null)”;  Password: password;  Type: str;  };  } |
| Pass/Fail: | Pass |

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| Test getValueForKey:FromRequest: | |
| Description: | This test ensures that the getValueForKey:FromRequest: correctly gets a key from a request.  Parameters: “Data”,  {  HRDeviceRequest =  {  Data = 0;  DeviceID = George;  HumanMessage = Toggle;  Password: password;  Type: str;  };  }  Properties: self.deviceID = @”George”, self.password = @”password” |
| Expected Result: | 1 |
| Actual Result: | 1 |
| Pass/Fail: | Pass |

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| Test getValueForKey:FromRequest: | |
| Description: | This test ensures that the getValueForKey:FromRequest: correctly handles a key that isn’t in the request.  Parameters: “NotInDict”,  {  HRDeviceRequest =  {  Data = 1;  DeviceID = George;  HumanMessage = Query;  Password: password;  Type: str;  };  }  Properties: self.deviceID = @”George”, self.password = @”password” |
| Expected Result: | (null) |
| Actual Result: | (null) |
| Pass/Fail: | Pass |

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| Test getValueForKey:FromRequest: - nil request | |
| Description: | This test ensures that the getValueForKey:FromRequest: correctly gets a key from a request.  Parameters: “Data”, nil  Properties: self.deviceID = @”George”, self.password = @”password” |
| Expected Result: | (null) |
| Actual Result: | (null) |
| Pass/Fail: | Pass |

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| toggleDoor | |
| Description: | This tests if toggleDoor correctly gets and sends a toggle request to sendRequest |
| Expected Result: | Should send toggle request to sendRequest |
| Actual Result: | Sends toggle request to sendRequest |
| Pass/Fail: | Pass |

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| checkState | |
| Description: | This tests if checkstate correctly gets and sends a query request to sendRequest |
| Expected Result: | Should send query request to sendRequest |
| Actual Result: | Sends query request to sendRequest |
| Pass/Fail: | Pass |

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| confirmClosed | |
| Description: | This tests if toggleDoor correctly gets and sends a toggle query to sendRequest |
| Expected Result: | Should send toggle query to sendRequest |
| Actual Result: | Sends toggle query to sendRequest |
| Pass/Fail: | Pass |

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| sendRequest | |
| Description: | This tests if sendRequest correctly gets and sends a request |
| Expected Result: | Should send request |
| Actual Result: | Sends request |
| Pass/Fail: | Pass |

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| toggleDoor | |
| Description: | This tests if toggleDoor correctly gets and sends a toggle query to sendRequest |
| Expected Result: | Should send toggle query to sendRequest |
| Actual Result: | Sends toggle query to sendRequest |
| Pass/Fail: | Pass |

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| requestReturnedWithError | |
| Description: | This tests if requestReturnedWithError shows an alert view when it is called. |
| Expected Result: | Should show alert view |
| Actual Result: | Shows alert view |
| Pass/Fail: | Pass |

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| Getting initial state | |
| Description: | Tests if the view controller gets the initial state of the garage door. |
| Expected Result: | Should update the garage door view to correct state and change the button label to the appropriate value |
| Actual Result: | Correctly updates the UI |
| Pass/Fail: | Pass |

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| Normal door opening | |
| Description: | Tests if the view controller correctly sends the open request and updates the UI. Door must be closed to do this test. |
| Expected Result: | Should send a toggle request to the base station, update the garage door view to be open, and change the text on the button to “Close” |
| Actual Result: | Correctly sends the request updates the UI |
| Pass/Fail: | Pass |

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| Normal door closing | |
| Description: | Tests if the view controller correctly sends the close request and updates the UI. Door must be open to do this test and must close successfully |
| Expected Result: | Should send a toggle request to the base station, update the garage door view to be closed, and change the text on the button to “Open”, and send a confirmation request. The door should stay closed. |
| Actual Result: | Correctly sends the requests and updates the UI |
| Pass/Fail: | Pass |

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| Unsuccessful door closing | |
| Description: | Tests if the view controller correctly sends the open request and updates the UI. Door must be open to do this test and must fail to close |
| Expected Result: | Should send a toggle request to the base station, update the garage door view to be closed, and change the text on the button to “Open”, and send a confirmation request. The door should open when it gets the response to the confirmation. |
| Actual Result: | Correctly sends the requests and updates the UI |
| Pass/Fail: | Pass |

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| Network connection failure - cancel | |
| Description: | Tests if the view controller correctly handles losing the connection to the base station and pops itself if the user cancels request. |
| Expected Result: | Should display an alert view telling the user that it can’t communicate with base station and offer to cancel request or retry. |
| Actual Result: | Correctly displays the alert and pops the view controller |
| Pass/Fail: | Pass |

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| Network connection failure - retry | |
| Description: | Tests if the view controller correctly handles losing the connection to the base station and retries the request when user selects retry. |
| Expected Result: | Should display an alert view telling the user that it can’t communicate with base station and offer to cancel request or retry. |
| Actual Result: | Correctly displays the alert and retries the request. |
| Pass/Fail: | Pass |

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| Swipe open normally | |
| Description: | Tests if the view controller correctly sends the open request and updates the UI when the user swipes up on the garage door picture. Door must be closed to do this test. |
| Expected Result: | Should send a toggle request to the base station, update the garage door view to be closed, and change the text on the button to “Close”. |
| Actual Result: | Doesn’t seem to register swipe |
| Pass/Fail: | fail |

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| Swipe closed normally | |
| Description: | Tests if the view controller correctly sends the close request and updates the UI when the user swipes down on the garage door picture. Door must be closed to do this test. |
| Expected Result: | Should send a toggle request to the base station, update the garage door view to be closed, and change the text on the button to “Open”, and send a confirmation request. The door should stay closed. |
| Actual Result: | Doesn’t seem to register swipe |
| Pass/Fail: | fail |