**Team: Team-3**

**Use Case Tables**

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| Use Case ID: | 1 | |
| Use Case Name: | System Start | |
| Actors: | House Owner | |
| Pre-conditions: | System is turned off | |
| Post-conditions: | System is turned on | |
| Flow of events: | **User Action** | **System Action** |
| 1- House owner turned on the power button |  |
|  | 2-System allows electric current to pass |
| Exceptions: | **User Action** | **System Action** |
| 1-Electric current is cut out |  |
| 2-Try again after few minutes |  |

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| Use Case ID: | 2 | |
| Use Case Name: | Add Device | |
| Actors: | House Owner | |
| Pre-conditions: | Device not installed | |
| Post-conditions: | Device successfully added to the system | |
| Flow of events: | **User Action** | **System Action** |
| 1- Owner select edit devices from options and chooses add device |  |
|  | 2- System displays the available devices to be added |
| 3-Owner chooses the device he wants to add |  |
|  |  | 4-Device successfully added |
| Exceptions: | **User Action** | **System Action** |
|  | 1-Owner chooses an installed device |  |
|  |  | 2- System rejects the process  3-System asks the owner to choose a new device |

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| Use Case ID: | 3 | |
| Use Case Name: | Remove device | |
| Actors: | House Owner | |
| Pre-conditions: | Device is installed | |
| Post-conditions: | Device successfully removed | |
| Flow of events: | **User Action** | **System Action** |
| 3- Owner selects edit devices from options and chooses remove device |  |
|  | 4- System displays connected devices |
| 5-Owner chooses the device he wants to remove |  |
|  |  | 5-Device successfully removed |
| Exceptions: | **User Action** | **System Action** |
| 1-Owner chooses to remove a device which is currently in use |  |
|  | 2- System rejects the process. |

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| Use Case ID: | 4 | |
| Use Case Name: | Connect device | |
| Actors: | User | |
| Pre-conditions: | System started | |
| Post-conditions: | Device connected to the board | |
| Flow of events: | **User Action** | **System Action** |
| 1- Owner clicks connect device |  |
|  | 2- System shows all devices |
| 3-Owner select a device |  |
|  | 4- System connects the device to the board |
| Exceptions: | **User Action** | **System Action** |
| 1- User clicks connect device [No available devices] | System allow user to add device |

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| Use Case ID: | 5 | |
| Use Case Name: | Disconnect device | |
| Actors: | User | |
| Pre-conditions: | System started | |
| Post-conditions: | Device disconnected from the board | |
| Flow of events: | **User Action** | **System Action** |
| 1- Ownerr click disconnect device |  |
|  | 2- System disconnects device from the board |
| Exceptions: | **User Action** | **System Action** |
| 1- Owner clicks disconnects device [No connected devices] | System announces the failure [no connected devices] |

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| Use Case ID: | 6 | |
| Use Case Name: | Check Status | |
| Actors: | House Owner | |
| Pre-conditions: | Notification popped | |
| Post-conditions: | Checked what happen | |
| Flow of events: | **User Action** | **System Action** |
| 3-Chooses the device to check it’s status |  |
|  | 2- System displays the status |
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| Use Case ID: | 7 | |
| Use Case Name: | Turn on | |
| Actors: | User (initiator) | |
| Entry-conditions: | System started | |
| Exit-conditions: | Device turned on | |
| Flow of events: | **User Action** | **System Action** |
| 1- User clicks control device |  |
| 2-User clicks Turn on |  |
|  | 3- System checks status |
|  | 4- System Turns on device |
| Exceptions: | **User Action** | **System Action** |
| 1- User click control device [no connected devices] | Announce the failure and allow the user to connect a device |
| 2- User clicks Turn on [Device already on] | System shows current status |

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| Use Case ID: | 8 | |
| Use Case Name: | Turn off device | |
| Actors: | User | |
| Pre-conditions: | System started | |
| Post-conditions: | Device turned off | |
| Flow of events: | **User Action** | **System Action** |
| 1- User clicks control device |  |
| 2-User clicks Turn off |  |
|  | 3- System checks status |
|  | 4- System Turns off device |
| Exceptions: | **User Action** | **System Action** |
| 1- User click control device [no connected devices] | Announce the failure and allow the user to connect a device |
| 2- User clicks Turn off [Device already off] | System shows current status |

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| Use Case ID: | 9 | |
| Use Case Name: | System Shutdown | |
| Actors: | House Owner | |
| Pre-conditions: | System is running | |
| Post-conditions: | System stopped | |
| Flow of events: | **User Action** | **System Action** |
| 1- House owner turned off the power button |  |
|  | 2-System stops the electric current from flowing |
| Notes and Issues: | Don’t Turn off the system while any device is running. | |