# Use Case # [8: Add Dash Button]

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| GENERAL CHARACTERISTICS | |
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| **Last Update:** | 9/25/2017 |
| **Scope** | Home Automation System |
| **Level** | User-goal |
| **Status** | Incomplete Conceptualization |
| **Primary Actor** | Mobile Application User |
| **Secondary Actors** | Mobile Application, Automation System, Amazon Dash Button |
| **Stakeholders and Interests** | Mobile App User: wants to add a dash button |
| **Preconditions** | System is set up and the target light is added to the system (UseCase Add Light), User is authenticated |
| **Success Post Condition** | Dash button has been sucessfully added to the system to control target light |
| **Failed Post Condition** | Dash button is not added and user is notified of the error that occurred. |

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| MAIN SUCCESS SCENARIO (or basic flow) | |
| **Step** | **Action -** description in words of each step in success scenario |
| 1 | User begins Dash Button set up in Amazon app, stopping at the “Choose a product step” |
| 2 | User enters Dash Button setup mode on Hokie Home app. |
| 3 | User presses Amazon Dash button, to set it up with Hokie Home System. |
| 4 | System discovers Dash button and user is taken to the light selector screen |
| 5 | User selects the light to pair with the Dash button and the system pairs it with the dash button |

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| EXTENSIONS or Alternate Flows | |
| **Step** | **Branching Action** |
| 2a | App cannot connect to server   1. Display message to user informing them of error. Suggest phone is not connected to home network or server isn’t on. 2. Leave Dash setup screen in app |
| 2b | System has no registered lights   1. Tell user to setup at least one light before setting up any buttons. |
| 4a | Server does not discover Dash button after X seconds   1. Exit dash setup mode and tell user the button was not found, suggesting a retry and possible sources of error. |
| 5a | User doesn’t select light and app closes (home pressed, app crash, etc.)   1. Save button without paring with a light. |

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| SPECIAL REQUIREMENTS | |
| **Req Num** | **Requirement** |
| 1 | Only authenticated users can add a button |

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| TECHNOLOGY AND DATA VARIATIONS LIST | |
| **Var Num** | **Variation** |
| 1 | Communication between mobile app and server is done over local network |

***FREQUENCY OF OCCURRENCE***: Few times, almost all done at beginning of home system set up.

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| OTHER ISSUES | |
| **Issue Num** | **Issue** |
| *n* | N/A |