# Functional Requirements:

# Navigation:

# Service Contracts:

1. Specify current location
2. Specify destination
3. Select route preference option

# Case 1: Specify Current Location

# Input Values:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input Element | Type | Value Specification | Valid | Invalid | Exceptional Cases |
| From Location | String | “Current Location”  “IT Building”  “EMB”  “Client Service Center”  “Chapel”  “Merenskey Library”  “Ampitheather”  “Engineering 1” | An option is selected | None | None |

* The “Current Location” option does not locate the user but is hard-coded
* The list of buildings is not comprehensive – It only has a handful of buildings

# Case 2: Specify Destination

# Input Values:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Input Element** | **Type** | **Value Specification** | **Valid** | **Invalid** | **Exceptional Cases** |
| Destination | String | “Current Location”  “IT Building”  “EMB”  “Client Service Center”  “Chapel”  “Merenskey Library”  “Ampitheather”  “Engineering 1” | An option is selected | None | None |

* “Current Location” is a redundant option
* The location selected in the From Location should be removed as a possible option in the Destination list

# Case 3: Select Route Preference Option

# Input Values:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input Element | Type | Value Specification | Valid | Invalid | Exceptional Cases |
| Route Preference | String | “Calculate Shortest Route”  “Calculate Simplest Route” | An option is selected | None | None |

* In many cases there is no distinction between the two routes – The difference, such as difference in distance, should be shown to the user

# Non-functional requirements:

# User interface

* Layout is responsive and is still usable on small screens such as mobile phones
* The map is difficult to work with and does not portray the route in a clear manner