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| --- | --- | --- | --- |
| *Version* | *Date* | *Author* | *Description of change* |
| 1 | 29/10/2022 | Abir Sikder | Create Use Case |
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| Header |

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| Use Case: | Turn lights off if the room is empty. |
| ID: | UC-019 |
| Description: | For energy saving reasons, the light will be turned off if the room is empty. |
| Actors: | sensor (sends data) |
| Stakeholders and Interests: |  |
| Trigger | If the room is empty the light will be turned off. |

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| **Pre-Conditions** |

The number of people in the must be > 0 and the light must be turned on.

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| **Post-Conditions** |

The number of people in the room must be 0.

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| **Success end condition** |

The number of people in the room must be 0 and the lights will be turned off.

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| **Failure end condition:** |

Invalid data entry. (Cannot be interpreted)

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| **Main Success Scenario:** |

1. Sensor sends data to database.
2. If the number of people in the room is 0 the lights will be turned off.

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| **Alternative Flow and Exceptions:** |

3a. If the number of people in the room is > 0 the lights will be turned on.

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| **Non-Functional Requirements:** |

**Performance**

The lights should be turned off within 2 seconds.

**User** **Interface**

The user will be notified in the info box if the lights are turned on and the light icon will be changed. The notification should be easy to read at the info window.