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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: | Change room color in user interface based on co2 values. |
| ID: | UC-022 |
| Description: | The room color will be changed to green if the co2 values are below 800 ppm.  The room color will be changed to yellow if the co2 values are between 800 and 1000 ppm.  The room color will be changed to red if the co2 values are above 1000 ppm. |
| Actors: | Sensor (sends data) |
| Stakeholders and Interests: |  |
| Trigger | Room color will be changed if the co2 values are at a certain level. |

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| **Pre-Conditions** |

Data entries should be present and if there is no data the room color will be white.

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| **Post-Conditions** |

Room color is green when co2 values are < 800 ppm.

Room color is yellow when co2 values are between 800 and 1000 ppm.

Room color is red when co2 values are > 1000 ppm.

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| **Success end condition** |

Room color is green when co2 values are < 800 ppm.

Room color is yellow when co2 values are between 800 and 1000 ppm.

Room color is red when co2 values are > 1000 ppm.

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| **Failure end condition:** |

Invalid data entry. (Cannot be interpreted)

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| **Main Success Scenario:** |

1. Sensor measures room
2. Sensor sends data (Database or Interface)
3. Room color will be changed if the co2 values are at a certain level.

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| **Alternative Flow and Exceptions:** |

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| **Non-Functional Requirements:** |

**Performance**

The color change should be within 3 seconds.

**User** **Interface**

The user will be notified if the room color is changed.

The notification should be easy to read at the info window.