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| **USE CASE NAME:** | Create Reservation | **USE CASE TYPE** |
| **USE CASE ID:** | 1 | **Design: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Reservation Manager | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case describes a reservation manager create a new reservation on the system. | |
| **PRE-CONDITIONS:** | The manager has opened the program. | |
| **TYPICAL COURSE** | 1. The reservation manager clicked on an empty cell on the calendar. 2. The system identifies the row and column number of the cell according to the position of the mouse. 3. The system retrieves the resource and date of the cell. 4. The system generates a new reservation as well as a reservation label, then display the information of the reservation on the edit panel. 5. The system enables edit panel for users to edit. 6. The manager edit the reservation on the edit panel. 7. The manager clicks save button and go to use case 4: Validate and Save Reservation. 8. The manager exit the program. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 6a.1 The manager clicks on an existing cell  6a.2 Go to use case 2: Modify Reservation | |
| 6b.1 The manager clicks on another empty cell  6b.2 Go to step 2 | |
|  | 7a.1 The manager clicks on the delete button on the edit panel  7a.2 Go to user case 3: Delete Reservation | |
| **POST-CONDITION:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Modify Reservation | **USE CASE TYPE** |
| **USE CASE ID:** | 2 | **Design: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Reservation Manager | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case describes a reservation manager modify an existing reservation on the system. | |
| **PRE-CONDITIONS:** | The manager has opened the program. | |
| **TYPICAL COURSE** | 1. The reservation manager clicked on an existing cell on the calendar. 2. The system retrieves the corresponding reservation associated with the label. 3. The system display the information of the reservation on the edit panel. 4. The system enables edit panel for users to edit. 5. The manager edit the reservation on the edit panel. 6. The manager clicks save button and go to use case 4: Validate and Save Reservation. 7. The manager exit the program. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 5a.1 The manager clicks on another existing cell  5a.2 Go to step 1 | |
| 5b.1 The manager clicks on an empty cell  5b.2 Go to use case 1: Create Reservation | |
|  | 6a.1 The manager clicks on the delete button on the edit panel  6a.2 Go to use case 3: Delete Reservation | |
| **POST-CONDITION:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Delete Reservation | **USE CASE TYPE** |
| **USE CASE ID:** | 3 | **Design: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Reservation Manager | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case describes a reservation manager delete an existing reservation or trying to delete a non-existing reservation on the system. | |
| **PRE-CONDITIONS:** | The manager has created a reservation or selected a reservation to modify. | |
| **TYPICAL COURSE** | 1. The reservation manager clicked on delete button on the edit panel. 2. The system pop up a message dialogue for confirmation. 3. The manager clicks “OK”. 4. The system checks that the reservation is in the system. 5. The system delete the reservation from the system. 6. The system remove the label from the calendar table. 7. The system clear and disable the edit panel. 8. The manager exit the program. | |
| **OF EVENTS:** |
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| **ALTERNATE COURSES:** | 3a.1 The manager clicks “Cancel”  3a.2 Go to step 8 | |
| 4a.1 The system checks that the reservation is not in the system  4a.2 Pop up message Please save the reservation first.  4a.3 The manager clicks “OK” | |
| **POST-CONDITION:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Validate and Save Reservation | **USE CASE TYPE** |
| **USE CASE ID:** | 4 | **Design: 🗹** |
| **PRIORITY:** | High |  |
| **PRIMARY BUSINESS ACTOR:** | Reservation Manager | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case describes a reservation manager save a reservation and the system validate the reservation before saving it to the system. | |
| **PRE-CONDITIONS:** | The manager has created a reservation or selected a reservation to modify. | |
| **TYPICAL COURSE** | 1. The reservation manager clicked on save button on the edit panel. 2. The system retrieves user input data to cache. 3. The system validates the user input data. 4. Validate success, pop up success message. 5. The system put the reservation on calendar. 6. The system save the reservation to system. 7. The manager exit the program. | |
| **OF EVENTS:** |
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|  | 4a.1 Validate fails  4a.2 Pop up fail message | |
| **POST-CONDITION:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Scroll Calendar | **USE CASE TYPE** |
| **USE CASE ID:** | 5 | **Design: 🗹** |
| **PRIORITY:** | Medium |  |
| **PRIMARY BUSINESS ACTOR:** | Reservation Manager | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case describes a reservation manager scrolls calendar to see reservations on other dates. | |
| **PRE-CONDITIONS:** | The manager has opened the program. | |
| **TYPICAL COURSE** | 1. The reservation manager clicked on “<” or ”>” or ”<<” or ”>>” button. 2. The system calculates a new date according to which button the manager clicked. 3. The system reset the column header according to new date. 4. The system reset the table content. 5. The manager exit the program. | |
| **OF EVENTS:** |
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| **POST-CONDITION:** | None | |
| **ASSUMPTIONS:** | None | |

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| **USE CASE NAME:** | Clear Reservations | **USE CASE TYPE** |
| **USE CASE ID:** | 6 | **Design: 🗹** |
| **PRIORITY:** | Low |  |
| **PRIMARY BUSINESS ACTOR:** | Reservation Manager | |
| **OTHER PARTICIPATING ACTORS:** | None | |
| **DESCRIPTION:** | This use case describes a reservation manager clears all reservations in the system. | |
| **PRE-CONDITIONS:** | The manager has opened the program. | |
| **TYPICAL COURSE** | 1. The reservation manager clicked on Clear button. 2. The system pop up warning for confirmation. 3. The manager clicks “OK”. 4. The system clears the table content. 5. The system delete all reservations from the system. 6. The system clear and disable the edit panel. 7. The manager exit the program. | |
| **OF EVENTS:** |
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| 3a.1 The manager clicks “Cancel”  3a.2 Go to step 6 | |
| **POST-CONDITION:** | None | |
| **ASSUMPTIONS:** | None | |