Testing Plan - SOEN 344

**Login - Cross Reference UC01 in SRS (3.2.3.1)**

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| **Acceptance Test 1** | **As a user I want to sign into the Web Application** |
| **Acceptance Criteria** | Upon successful Username and Password validation I am redirected to the main page of the application. |
| **Result** | **Accepted** |
| **Comments** | If validation is unsuccessful, the system will display an error and prompt the user to re-enter the credentials |

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| **System Test 1** | **As a user I want to sign into the Web Application** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User indicates that they wish to log in | System prompts the student for log in credentials | **Accepted** |
| 2. User enters their Student ID and password | Credentials are validated and user is redirected to the main page | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** | If validation is unsuccessful, the system will display an error and prompt the user to re-enter the credentials | | |

**LogOut - Cross Reference UC02 in SRS (3.2.3.2)**

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| **Acceptance Test 2** | **As a user I want to sign out of the Web Application** |
| **Acceptance Criteria** | Upon selecting the Logout feature, the user’s session is terminated and is redirected to the Home page |
| **Result** | **Accepted** |
| **Comments** |  |

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| **System Test 2** | **As a user I want to sign out of the Web Application** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. Select the Logout feature | User’s session is terminated and is redirected to the Home page | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** |  | | |

**View Calendar - Cross Reference UC03 in SRS (3.2.3.3)**

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| **Acceptance Test 3** | **As a user I want to View the Calendar** |
| **Acceptance Criteria** | Upon logging in, selecting a specific date from the Calendar, or by selecting the “Calendar” option, the user can view and access time slots for various rooms. |
| **Result** | **Accepted** |
| **Comments** | Calendar View will show when rooms are not available, Current Reservations the user has (Position on the waitlist if applicable), as well as Reservations held by other users |

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| **System Test 3** | **As a user I want to View the Calendar** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User indicates that they wish to view the calendar | User is redirected to the calendar page. | **Accepted** |
| **Result** |  | | **Accepted** |

**Request Reservation - Cross Reference UC04 in SRS (3.2.3.4)**

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| **Acceptance Test 4** | **As a user I want to create a reservation** |
| **Acceptance Criteria** | Upon selecting a given timeslot in a specific room, I want to create a reservation in the 60 seconds time frame by entering the description, equipment quantities and amount of weeks for recursion |
| **Result** | **Accepted** |
| **Comments** |  |

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| **System Test 4** | **As a user I want to create a reservation** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User requests to make a Reservation by selecting a timeslot in a given room | User is redirected to the request reservation page. | **Accepted** |
| 2. User enters the details required by the form | System processes the user’s request and return the status of the request, as well as redirects the user back to the main page | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** | A user cannot create a Reservation under the following circumstances:   1. If the Room is currently being used by another User (Busy State signified by Blue color on Timeslots). 2. The Time Slot is at full Capacity (1 active and 3 on wait list). 3. The current user has reached the Maximum number of allowable reservations per week (3 active). 4. If the user has an active reservation in the same Timeslot for another room.   Attempting to create a reservation under the above circumstances will result in **Failure.**  \*A recurring reservation will attempt to book the same room at the same time for multiple weeks. In the event a room is not available for one of the recurring weeks the user will be notified of conflicts (possibly placed on the Waitlist) and the time slot will still be booked in the subsequent weeks where no conflict is detected.  \*\*Upon creating a reservation, if the user has reached the Maximum number of allowable reservations per week (3 active), then all waitlists the user was on previously will now be deleted.  \*\*\*Upon creating a reservation, if the user has a waitlisted reservation in the same Timeslot for another room, it will now be deleted. | | |

**Modify Reservation - Cross Reference UC05 in SRS (3.2.3.5)**

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| **Acceptance Test 5** | **As a user I want to modify a reservation** |
| **Acceptance Criteria** | Upon selecting an active or waitlisted reservation, I want to modify any of the previously entered information, and/or timeslot and/or room as well as the requested number of each type of equipment. |
| **Result** | **Accepted** |
| **Comments** |  |

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| **System Test 5** | **As a user I want to modify a reservation** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User requests to modify a Reservation | User is redirected to the request reservation page. | **Accepted** |
| 2. User enters the details required by the form | System processes the user’s request and return the status of the request, as well as redirects the user back to the main page | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** | A user cannot modify a Reservation under the following circumstances:   1. If the Room is currently being used by another User (Busy State signified by Blue color on Timeslots). 2. The Time Slot is at full Capacity (1 active and 3 on wait list). 3. If the user has an active reservation in the same Timeslot for another room.   Attempting to create a reservation under the above circumstances will result in **Failure.**  \*A recurring reservation will attempt to book the same room at the same time for multiple weeks. In the event a room is not available for one of the recurring weeks the user will be notified of conflicts (possibly placed on the Waitlist) and the time slot will still be booked in the subsequent weeks where no conflict is detected.  \*\*Upon creating a reservation, if the user has reached the Maximum number of allowable reservations per week (3 active), then all waitlists the user was on previously will now be deleted.  \*\*\*Upon creating a reservation, if the user has a waitlisted reservation in the same Timeslot for another room, it will now be deleted. | | |

**View Reservation - Cross Reference UC06 in SRS (3.2.3.6)**

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| **Acceptance Test 6** | **As a user I want to view a reservation** |
| **Acceptance Criteria** | Upon selecting a given reservation I created, I want to view all of the information pertaining to said reservation (I.E. Waitlist position if applicable, timeslot, equipment quantities etc..) |
| **Result** | **Accepted** |
| **Comments** |  |

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| **System Test 6** | **As a user I want to view reservation** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User selects a reservation | User is redirected to the view reservation page displaying all information. | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** |  | | |

**View Reservation List - Cross Reference UC07 in SRS (3.2.3.7)**

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| **Acceptance Test 7** | **As a user I want to view my Reservation List** |
| **Acceptance Criteria** | Upon selecting “My Reservations”, I want to view a list of all the upcoming reservation I have made. |
| **Result** | **Accepted** |
| **Comments** |  |

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| **System Test 7** | **As a user I want to view reservation** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User selects “My Reservations” | User is redirected to the list reservation page displaying all upcoming reservations. | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** | The list of reservations will only be populated with ones whose time is after the current date/time exclusively (I.E Reservations made for 2pm today will not show in the list if it is 2:15). This is because they have become “expired” and can no longer be changed. | | |

**Cancel Reservation - Cross Reference UC08 in SRS (3.2.3.8)**

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| **Acceptance Test 8** | **As a user I want to cancel my Reservation List** |
| **Acceptance Criteria** | Upon selecting “My Reservations”, I want to view a list of all the upcoming reservation I have made. |
| **Result** | **Accepted** |
| **Comments** |  |

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| **System Test 8** | **As a user I want to cancel a reservation** | **Expected Output** | **Result** |
| **Steps to Reproduce** | 1. User selects a Reservation | User is redirected to the view reservation page displaying all information. | **Accepted** |
| 2. User selects Delete feature | System asks user to confirm the deletion | **Accepted** |
| 3. User confirms the deletion of the reservation | System deletes the reservation and updates the waitlist for the room | **Accepted** |
| **Result** |  | | **Accepted** |
| **Comments** | The list of reservations will only be populated with ones whose time is after the current date/time exclusively (I.E Reservations made for 2pm today will not show in the list if it is 2:15). This is because they have become “expired” and can no longer be changed. | | |

\*\*\*Completed

Scenario’s to Test:

1. Adding Reservation
   1. Nothing for the week
   2. 2 for the week with many waitlists
   3. 3 for the week
   4. With overlap on Waitlist
   5. With overlap active
   6. With available equipment
   7. Timeslot full
   8. Room Busy
   9. Add to Waitlist - Normal
   10. Add to Waitlist - Capstone
   11. Add to Waitlist - Unavailable equipment
2. Modify Reservation (Should only be able to modify for the same day, in a different room and/or timeslot)
   1. With overlap on Waitlist
   2. With available equipment
   3. Only Change Description
   4. Timeslot full
   5. Room Busy
   6. Add to Waitlist - Normal
   7. Add to Waitlist - Capstone
   8. Add to Waitlist - Unavailable equipment
   9. Same Room and Timeslot
      1. Waitlist with no active ⇒ equipment available becomes active
      2. Active ⇒ more equipment not available
      3. Active ⇒ reducing amount of equipment
3. Delete Reservation
   1. Moved Based on Queue
      1. Even if the Queue is not in order (I.E Id 1 has waitlist position 3, Id 2 has waitlist position 1 etc…)
   2. Based on Equipment/Priority
      1. Only add if the equipment is available

\*\*\*Attempt Blocking for 30 seconds afterwards

\*\*\*Timeout Reservation after 60 seconds