**1.2.2 Requirements testing**

The tables below show the result of black box testing for the functional requirement of the schedule generator system. Cells highlighted in green indicate a passed test while the ones in red indicate a failure . Failure are currently being investigated to be fixed for the final deliverable v1.2

Cases that were scoped out and therefore not tested are indicated in the last table

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| **UC1** | **Login** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **1.1** | **User inputs valid username and password (matching inputs)** | **User is redirected to student main page** | **PASS** |  |  |
| **1.2** | **User inputs a valid password and "admin" username** | **User is redirected to admin main page** | **PASS** |  |  |
| **1.3** | **User inputs invalid username and/or password** | **"Incorrect password and/or username"** | **PASS** |  |  |
| **1.4** | **User tries to login with one of the fields empty** | **"Incorrect password and/or username"** | **PASS** |  |  |

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| **UC2** | **Logout** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **2.1** | **User clicks on "logout" button** | **User is redirected to student main page** | **PASS** |  |  |

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| **UC3** | **Reset Password** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **3.1** | **User clicks on "reset password" option on the login page** | **An email is sent asking user to confirm by clicking on a link to reset the password** | **FAIL** | **1** | **To be fixed for v1.2** |

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| **UC4** | **Sign up** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **4.1** | **User inputs valid username, email and password.** | **Account is created and the user is redirected to the preferences page in their new account** | **PASS** |  |  |
| **4.2** | **User inputs a valid password and username, but an invalid email.** | **Error Message displayed asking user to enter an valid email** | **FAIL** | **2** | **To be fixed for v1.2** |
| **4.3** | **User inputs a valid password and email, but an invalid username.** | **Error Message displayed asking user to input a username with 4-6 characters** | **PASS** |  |  |
| **4.4** | **User inputs "admin" as a username, with a valid password and email.** | **Error message appears notifying user that the username entered is invalid** | **PASS** |  |  |

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| **UC7** | **View auto-generated list of taken courses** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **7.1** | **User inputs a valid number of semesters taken (between 1 and 7) and selects “generate course list”** | **A pop-up asking for confirmation to generate the course list is displayed.** | **Pass** |  |  |
| **7.2** | **User selects “Yes” in the pop-up prompting for confirmation to generate the course list** | **The pop-up closes and courses are auto-generated and added to the list of taken courses** | **Pass** |  |  |
| **7.3** | **User selects “No” in the pop-up prompting for confirmation to generate the course list** | **The pop-up closes and the input to “semesters taken” is blank.** | **Pass** |  |  |
| **7.4** | **User inputs an invalid number of semesters taken (not between 1 and 7) selects “generate course list”** | **An error message is displayed and the “generate course list” option doesn’t do anything.** | **Pass** |  |  |

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| **UC8** | **Set taken courses** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **8.1** | **User selects the “add class” option for the taken courses list** | **User is presented with a pop-up box prompting for an input of a course number or an input of a course name** | **Pass** |  |  |
| **8.2** | **User inputs a valid (present in the database) course number and selects “add class”** | **The course name corresponding to the course number is automatically generated. The pop-up box closes, and the inputted course is added to the list of taken courses** | **Pass** |  |  |
| **8.3** | **User inputs a valid (present in the database) course name and selects “add class”** | **The course number corresponding to the course name is automatically generated. The pop-up box closes, and the inputted course is added to the list of taken courses** | **Pass** |  | **Fixed v1.1** |
| **8.4** | **User inputs a valid (present in the database,) course number and/or course name already in the list of taken courses and selects “add class”** | **An error message is displayed and selecting the “add class” option doesn’t do anything.** | **Pass** |  |  |

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| **UC9** | **Set needed courses** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **9.1** | **User selects the “add class” option for the needed courses list** | **User is presented with a pop-up box prompting for an input of a course number or an input of a course name** | **Pass** |  |  |
| **9.2** | **User inputs a valid (present in the database, does not conflict with another course time and the prerequisites are met) course number and selects “add class”** | **The course name corresponding to the course number is automatically generated. The pop-up box closes, and the inputted course is added to the list of needed courses** | **Pass** |  | **Fixed v1.1** |
| **9.3** | **User inputs a valid (present in the database, does not conflict with another course time and the prerequisites are met) course name and selects “add class”** | **The course number corresponding to the course name is automatically generated. The pop-up box closes, and the inputted course is added to the list of needed courses** | **Pass** |  |  |
| **9.4** | **User inputs a course number or course name that conflicts with the time of another course in the list of needed courses and selects “add class”** | **An error message is displayed and selecting the “add class” option doesn’t do anything.** | **Fail** | **3** | **The check condition is not yet properly implemented**  **To be fixed for v1.2** |
| **9.5** | **User inputs a course number or course name for which the prerequisites are not met and selects “add class”** | **An error message is displayed and selecting the “add class” option doesn’t do anything.** | **Fail** | **3** | **The check condition is not yet properly implemented** |
| **9.6** | **User inputs an invalid (not present in the database) course number and/or course name and selects “add class”** | **An error message is displayed and selecting the “add class” option doesn’t do anything.** | **Pass** |  |  |
| **9.7** | **User inputs a valid (present in the database, does not conflict with another course time and the prerequisites are met) course number and/or course name already in the list of needed courses and selects “add class”** | **An error message is displayed and selecting the “add class” option doesn’t do anything.** | **Pass** |  | **Fixed v1.1** |

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| **UC10** | **Delete needed courses** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **10.1** | **User selects the delete icon of a course in the list of needed courses** | **The course is removed from the list of needed courses** | **Pass** |  |  |

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| **UC11** | **Delete taken courses** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **11.1** | **User selects the delete icon of a course in the list of taken courses** | **The course is removed from the list of taken courses** | **Pass** |  |  |

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| **UC12** | **Set preferences :Related to (Modify Preferences)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **12.1** | **User selects his desired day off to be a specific day (Monday, Tuesday, Wednesday, Thursday, or Friday) from the drop down menu** | **The selected day is displayed as the desired day off** | **Pass** |  |  |
| **12.2** | **User selects his desired day off to be “none” from the drop down menu** | **“none” is displayed as the desired day off** | **Pass** |  |  |
| **12.3** | **User selects his preferred time of the day to be either “mornings”, afternoons” or “evenings” from the drop down menu** | **The selected preferred time of the day is displayed as the preferred time of the day** | **Pass** |  |  |
| **12.4** | **User selects his preferred time of the day to be “Any” from the drop down menu** | **“Any” is displayed as the preferred time of the day** | **Pass** |  |  |

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| **UC13** | **Generate schedule** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **13.1** | **User selects the “build schedule” option** | **User is directed to the schedule page, and multiple schedules are generated according to the preferences and needed courses.** | **Fail** | 4 | **The scheduling algorithm does not yet properly generate schedules according to the inputs(preferences and needed courses) given** |
| **13.2** | **User selects an arrow on the schedule page to see a different generated schedule** | **Another generated schedule is displayed on the schedule page** | **Pass** |  | **Fixed v1.1** |
| **13.3** | **User selects “select this schedule” from the schedule page** | **User is directed to the sequence page. The selected schedule is displayed along with the user’s course sequence** | **Fail** | **4** | **The user’s course sequence does not display the right data** |

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| **UC19** | **Edit Account Information** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **19.1** | **User changes the username by inputting a new valid username** | **Name is changed in the account management page** | **PASS** |  |  |
| **19.2** | **User tries to change the username by inputting the same current user name** | **Error Message notifying the user that the entered user name is the same as the old one** | **PASS** |  | **Fixed v1.1** |
| **19.3** | **User changes the username with a new user name that is too short (less than 4 characters)** | **Error message notifying the user that the username is too short** | **PASS** |  |  |
| **19.4** | **Change current email with a new valid email** | **New email appears on the user account information** | **PASS** |  |  |
| **19.5** | **Change current email with one that has invalid format** | **Error message appears asking the user to input a valid email address.** | **FAIL** | **2** |  |
| **19.6** | **Change Password by entering the correct current password and new password with 8-16 characters and retype the new password correctly** | **Password is changed** | **PASS** |  |  |
| **19.7** | **Change Password by inputting the same current password as the new one** | **Error message appears notifying user to enter a new password** | **PASS** |  |  |
| **19.8** | **Change password by entering the correct current one , entering a valid new one but mismatch in retyping the new one** | **Error message notifying the user that the passwords do not match** | **PASS** |  |  |

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| **UC23** | **Add Course to Program (adminstrator)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **23.1** | **Add a new course to list of courses offered** | **Course is added to the list of courses displayed** | **PASS** |  |  |
| **23.2** | **Add a course that already exists in the list of courses** | **Error message appears and**  **Course List is not changed** | **PASS** |  |  |
| **23.3** | **Add Course with wrong name format ex: (341soen)** | **Error message appears and**  **Course List is not changed** | **FAIL** | **5** |  |

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| **UC24** | **Edit Course (administrator)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **24.1** | **Edit Course Description** | **Course description is changed** | **PASS** |  |  |
| **24.2** | **Edit Course Prerequisites** | **Course prerequisites changes** | **PASS** |  |  |

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| **UC25** | **Delete Course (administrator)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **25.1** | **Delete an existing course from course list** | **Course is removed from the course list** | **PASS** |  |  |
| **25.2** | **Delete a course with ID not in the list** | **Error message appears and**  **Course List is not changed** | **PASS** |  |  |

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| **UC26** | **Add Section (administrator)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **26.1** | **Create new section with valid inputs (ex:Name:UI, Location: H-563 Day:MW Time:16:15-17:30,Course Name:SOEN341,Semester:**  **W2016)** | **New Section is added to the list of sections of the required course** | **PASS** |  |  |
| **26.2** | **Create Section without inputting all the data** | **Error message appears notifying the user to complete the data required** | **PASS** |  |  |
| **26.3** | **Add Section with existing section name** | **Error Message appears notifying the admin that section already exists** | **PASS** |  |  |
| **26.4** | **Add section with the same date, time and location of an existing section** | **Error Message appears to notify admin that the section can not be created** | **PASS** |  |  |

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| **UC27** | **Edit Section (administrator)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **27.1** | **Edit the time of an existing section  (ex: SOEN 341, Time:18:00-19:00)** | **Section time is changed , new time appears in the section information** | **FAIL** | **6** | **To be fixed for v1.2** |
| **27.2** | **Edit the location of an existing section** | **Section location is changed , new location appears in the section information** | **FAIL** | **6** | **To be fid for v1.2** |

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| **UC 28** | **Delete Section (administrator)** | | | | |
| **ID** | **Description** | **Expected Output** | **Result** | **Bug ID** | **Comments** |
| **28.1** | **Delete an existing section from the list of sections of a course** | **Section is removed from the list** | **PASS** |  | **Fixed v1.1** |

**Requirements Scoped out and therefore not tested:**

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| **Use Case Number** | **Description** | **Test Result** |
| UC 5 | View Default Schedule without creating an account | N/A |
| UC 6 | Modify a generated schedule | N/A |
| UC 14 | Save a generated schedule | N/A |
| UC 15 | Delete a saved schedule | N/A |
| UC 16 | Print a generated schedule | N/A |
| UC 17 | View previously saved schedule | N/A |
| UC 18 | Change a section in the schedule | N/A |