**CHAPTER VI**

**TESTING**

* 1. **INTRODUCTION**

The testing phase is crucial since it involves assessing a software application's functionality to identify any flaws. In order to provide a high-quality result, it determines whether the generated software complied with the criteria and locates any errors in the software. In addition to this, the people participating in the testing process will be addressed in this chapter. Basically, a small number of individuals will be requested to conduct the tests. Additionally, the environment in which the testing will take place will be specified, together with the hardware setups, training requirements, and preparation steps. The descriptions, procedures, and expected outcomes for each test case will be listed. To discover which test requirement corresponds to each test case, a traceability matrix is also provided. T1 in this context stands for the ‘Test Administrator’, T2 for the ‘Test Teacher’, and T3 for the ‘Test Student’. The identification of the test case, the tester, the success or failure of the test case, and the thorough documentation of the failed test case will all be indicated. Additionally, the system's overall satisfaction ratings from the targeted users will be reported.

* 1. **TEST PLAN**
     1. **TEST ORGANIZATION**

21 testers will be involved in the testing process for three days. The admin module is operated by three testers (one tester per day), the student module by nine testers (three testers per day), and the teacher module by the remaining nine testers (three testers each day). The testers who test the admin module will be particularly skilled at administrative tasks like entering data, while those who test the teacher module will primarily have a foundation in teaching any subject and experience in providing materials for the students to use. The public will test the student module since it will be publicly accessible for anybody to use.

* + 1. **TEST ENVIRONMENT**
       1. **ENVIRONMENT OF TESTING TO BE CARRIED OUT**

Since it is difficult to locate a venue and to gather everyone at a specific time, the testing is done online through Microsoft Teams. Additionally, there are significant financial savings because there is no location rental fees. Microsoft Teams was chosen because it is simple to use, free and accessible to all users. It also contains a feature called "share screen" that makes it easier for users to operate the system and let others see how it works.

* + - 1. **HARDWARE, PREPARATIONS AND TRAINING PRIOR TO TESTING**

The hardware that is required to conduct this testing phase is basically a laptop or computer and any device that can connect to internet (Wi-Fi). The testers only have to download the Microsoft Teams and ensure they have a reliable connection before starting the testing. Then, on a specific date, all of the testers will join the online meeting and receive some briefings on how the system will function. The Xampp server must be installed on each tester's laptop or computer, and the sql file must be imported into phpMyAdmin. In addition to this, the testers are required to share their screens during testing in case any mistakes are discovered.

* + 1. **TEST SCHEDULE**

Admin

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| **Brilliance Online Tuition System** | | | | | | | | | |
| **Test ID** | **Module Name** | **Duration (Day)** | **Start Date** | **End Date** | 9.00AM - 10.00AM | 11.00AM - 12.00PM | 2.00PM - 3.00PM | 4.00PM - 5.00PM | 5.00PM - 6.00PM |
| Brilliance Online Tuition System - Testing Phase | | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |

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| T1.001 | Admin Login | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.002 | Admin Forget Password | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T1.003 | Add Subject | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.004 | Add Subject Details | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.005 | Update Subject Image | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.006 | Update Subject Timetable | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.007 | Update Subject Day | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.008 | Update Subject Time | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.009 | Update Subject Age | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.010 | Update Subject Price | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.011 | Update Subject Quantity | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.012 | Update Subject Description | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.013 | Update Subject Terms & Condition | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.014 | Remove Subject | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.015 | Add Teacher | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.016 | Assign Subject | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.017 | Remove Teacher | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.018 | Subject Intake Report | 1 | 25/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.019 | Monthly Report | 1 | 25/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.020 | Yearly Report | 1 | 25/08/2022 | 25/08/2022 |  |  |  |  |  |
| T1.021 | Update Profile Details | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T1.022 | Change Password | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| Teacher | | | | | | | | | |
| T2.023 | Teacher Login | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.024 | Teacher Forget Password | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T2.025 | Add Reference | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.026 | Update Reference Video | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.027 | Update Material  Update Reference Description Update Reference Month Week Update Class Link  Remove Reference  Update Profile Details Change Password | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.028 | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.029 | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.030 | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.031 | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T2.032 | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T2.033 | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| Student (Public) | | | | | | | | | |
| T3.034 | Sign Up Account | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T3.035 | Student Login | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T3.036 | Student Forget Password | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T3.037 | Enrol Subject | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T3.038 | Subject Payment | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T3.039 | Update Grade | 3 | 23/08/2022 | 25/08/2022 |  |  |  |  |  |
| T3.040 | Update Profile Details | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |
| T3.041 | Change Password | 1 | 23/08/2022 | 23/08/2022 |  |  |  |  |  |

* 1. **TEST STRATEGY**

The top-down approach is a strategy in which decisions are made at the highest level and then discussed with the rest of the team. The top-down approach is used for this Brilliance Online Tuition System since it can be modified to meet the needs of the specific client. It reduces risk, eliminates confusion, and keeps the project organized. The top-down method is helpful because it is consistent from project to project, allowing for the establishment of a well-practiced system that becomes more efficient over time. The top-down approach is more regimented and strict. It has improved communication and made it a lot easier to discover problems. As a result, faster implementation is probable.

Black Box testing is the preferred strategy since its main goals are to find errors and validate software. By employing this test technique, the tester will only be aware of the formal inputs and expected results, but not how the code generates those outputs. Moreover, it is effective because it is carried out by independent software testers. Since the tester and developer are independent of one another, the testing process is fair and unbiased. Additionally, the testers are not necessarily need to have programming knowledge and might be a non-technical background person. The tester does not need to be an expert in the system's functioning details as well.

* + 1. **CLASSES OF TESTS**

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| No. | Test ID | Class Of Test |
| 1. | T1.001 | Security test |
| 2. | T1.002 | Security test |
| 3. | T1.003 | Functionality test |
| 4. | T1.004 | Functionality test |
| 5. | T1.005 | Functionality test |
| 6. | T1.006 | Functionality test |
| 7. | T1.007 | Functionality test |
| 8. | T1.008 | Functionality test |
| 9. | T1.009 | Functionality test |
| 10. | T1.010 | Functionality test |
| 11. | T1.011 | Functionality test |
| 12. | T1.012 | Functionality test |
| 13. | T1.013 | Functionality test |
| 14. | T1.014 | Functionality test |
| 15. | T1.015 | Functionality test |
| 16. | T1.016 | Functionality test |
| 17. | T1.017 | Functionality test |
| 18. | T1.018 | Output correctness |
| 19. | T1.019 | Output correctness |
| 20. | T1.020 | Output correctness |
| 21. | T1.021 | Functionality test |

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| 22. | T1.022 | Security test |
| 23. | T2.023 | Security test |
| 24. | T2.024 | Security test |
| 25. | T2.025 | Functionality test |
| 26. | T2.026 | Functionality test |
| 27. | T2.027 | Functionality test |
| 28. | T2.028 | Functionality test |
| 29. | T2.029 | Functionality test |
| 30. | T2.030 | Functionality test |
| 31. | T2.031 | Functionality test |
| 32. | T2.032 | Functionality test |
| 33. | T2.033 | Security test |
| 34. | T3.034 | Functionality test |
| 35. | T3.035 | Security test |
| 36. | T3.036 | Security test |
| 37. | T3.037 | Functionality test |
| 38. | T3.038 | Functionality test |
| 39. | T3.039 | Functionality test |
| 40. | T3.040 | Functionality test |
| 41. | T3.041 | Security Test |

* 1. **TEST DESIGN**
     1. **TEST DESCRIPTION**

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| **Test ID** | T1.001 | | |
| **Module Name** | Admin Login | | |
| **Test Description** | To access the administration main page. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC1.001 | Test the login process with a registered IC or email address and a valid password. | The admin clicks the Login button after entering the valid IC or email address and password. | Redirect to administration main page (Report Page). |
| TC1.002 | Test the login process with a registered IC or email address and an invalid password. | The admin clicks the Login button after entering the valid IC or email address but the password is incorrect. | Display “Invalid IC/Email or Password”. |
| TC1.003 | Test the login process with an unregistered IC or email address and a valid password. | The admin clicks the Login button after entering the invalid | Display “Invalid IC/Email or Password”. |

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|  |  | IC or email address but the password is correct. |  |
| TC1.004 | Test the login process with an unregistered IC or email address and an invalid password. | The admin clicks the Login button after entering the invalid IC or email address and password. | Display “Invalid IC/Email or Password”. |

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| **Test ID** | T1.002 | | |
| **Module Name** | Admin Forget Password | | |
| **Test Description** | To reset admin's password. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC2.001 | Test the reset password process with a registered IC number, valid email address and phone number, new and confirm password is the same and follow the required rules. | The admin clicks the Reset Password button after entering the valid IC, email address and phone number, and new and confirm password is the same and follow the required rules. | Display “Password has been changed successfully! Please Login First.” |

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| TC2.002 | Test the reset password process with an | The admin clicks the Reset | Display “Uh-Oh! No account |
|  | unregistered IC number, valid email address | Password button after entering | found.” |
|  | and phone number, new and confirm | the invalid IC, valid email |  |
|  | password is the same and follow the required | address and phone number, and |  |
|  | rules. | new and confirm password is |  |
|  |  | the same and follow the |  |
|  |  | required rules. |  |
| TC2.003 | Test the reset password process with a | The admin clicks the Reset | Display “Uh-Oh! No account |
|  | registered IC number, invalid email address | Password button after entering | found.” |
|  | and phone number, new and confirm | the valid IC, invalid email |  |
|  | password is the same and follow the required | address and phone number and |  |
|  | rules. | new and confirm password is |  |
|  |  | the same and follow the |  |
|  |  | required rules. |  |
| TC2.004 | Test the reset password process with an | The admin clicks the Reset | Display “Uh-Oh! No account |
|  | unregistered IC number, invalid email | Password button after entering | found.” |
|  | address and phone number, new and confirm | the invalid IC, email address |  |
|  | password is the same and follow the required | and phone number, and new |  |
|  | rules. | and confirm password is the |  |
|  |  | same and follow the required |  |

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|  |  | rules. |  | | |
| TC2.005 | Test the reset password process with an | The admin clicks the Reset | Display “Please | match | the |
|  | unregistered IC number, invalid email | Password button after entering | requested format.” |  |  |
|  | address and phone number, new and confirm | the invalid IC, email address |  |  |  |
|  | password is not the same and not follow the | and phone number, and new |  |  |  |
|  | required rules. | and confirm password is not the |  |  |  |
|  |  | same and not follow the |  |  |  |
|  |  | required rules. |  |  |  |
| TC2.006 | Test the reset password process with a | The admin clicks the Reset | Display “Uh-Oh! Password and | | |
|  | registered IC number, valid email address | Password button after entering | Re-Type Password Field Do | | |
|  | and phone number, new and confirm | the valid IC, email address and | Not Match.” | | |
|  | password is not the same and follow the | phone number, and new and |  | | |
|  | required rules. | confirm password is the not |  | | |
|  |  | same and follow the required |  | | |
|  |  | rules. |  | | |

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| **Test ID** | T1.003 | | |
| **Module Name** | Add Subject | | |
| **Test Description** | To add the subject name and image. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC3.001 | Test the add subject process with all necessary information entered correctly for the insertion of the name and photo. | The admin clicks the Insert button after filling out the Subject Name textbox and inserting the image with the correct format. | Display “Subject has been added successfully”. |
| TC3.002 | Test the add subject process using the same subject name as in the database and a valid photo format. | The admin clicks the Insert button after entering a subject name that already exists in the database in the Subject Name textbox and inserting the image with the correct format. | Display “Subject already exist. Please use other than that.” |
| TC3.003 | Test the add subject process using the same subject name as in the database and an | The admin clicks the Insert button after entering a subject | Display “Your image extension must be .jpg, .jpeg or .png” |

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|  | invalid photo format. | name that already exists in the database in the Subject Name textbox and inserting the image with the incorrect format. |  |
| TC3.004 | Test the add subject process using the | The admin clicks the Insert | Display “Your image extension |
|  | different subject name as in the database and | button after filling out the | must be .jpg, .jpeg or .png” |
|  | an invalid photo format. | Subject Name textbox and |  |
|  |  | inserting the image with the |  |
|  |  | incorrect format. |  |

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| **Test ID** | T1.004 | | |
| **Module Name** | Add Subject Details | | |
| **Test Description** | To add the subject details. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC4.001 | Test the add subject details process with all necessary information entered and in the correct format. | The admin clicks the Insert button after selecting subject, day and time options, filling out  all textboxes and inserting the | Display “Subject has been added successfully”. |

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|  |  | schedule with the correct format. |  |
| TC4.002 | Test the add subject details process with all necessary information entered but the schedule section's format is incorrect. | The admin clicks the Insert button after selecting subject, day and time options, filling out all textboxes and inserting the schedule with the incorrect format. | Display “Your file extension must be .zip, .pdf or .docx”. |
| TC4.003 | Test the add subject details process with the subject, day and time same as existed in the database. | The admin clicks the Insert button after selecting subject, day and time options that already exists in the database, filling out all textboxes and inserting the schedule with the correct format. | Display “Subject is ineligible for the same day and time.” |
| TC4.004 | Test the add subject details process with the day, time and age same as existed in the database. | The admin clicks the Insert button after selecting subject option, but day, time and age already exists in the database,  filling out all textboxes and | Display “Subject is ineligible for the identical day and time for the identical age.” |

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|  |  | inserting the schedule with the correct format. |  |

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| **Test ID** | T1.005 | | |
| **Module Name** | Update Subject Image | | |
| **Test Description** | To update the subject image. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC5.001 | Test the update subject image process with the correct format for image insertion. | The admin clicks the Update Image button after inserting the image with the correct format. | Display “Image has been updated successfully”. |
| TC5.002 | Test the update subject image process with no image insertion. | The admin clicks the Update Image button without inserting any image. | Display “Please select a file”. |

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| **Test ID** | T1.006 | | |
| **Module Name** | Update Subject Timetable | | |
| **Test Description** | To update the subject timetable. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC6.001 | Test the update subject timetable process with the correct format for timetable insertion. | The admin clicks the Update Timetable button after inserting the timetable with the correct format. | Display “Timetable has been updated successfully”. |
| TC6.002 | Test the update subject timetable process with no timetable insertion. | The admin clicks the Update Timetable button without inserting any timetable. | Display “Please select a file”. |

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| **Test ID** | T1.007 | | |
| **Module Name** | Update Subject Day | | |
| **Test Description** | To update the subject day. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC7.001 | Test the update subject day process with the radio button is selected. | The admin clicks the Update Day button after selecting the day. | Display “Day has been updated successfully”. |
| TC7.002 | Test the update subject day process with the radio button is not selected. | The admin clicks the Update Day button without selecting the day. | Display “Please select one of these options”. |

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| **Test ID** | T1.008 | | |
| **Module Name** | Update Subject Time | | |
| **Test Description** | To update the subject time. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC8.001 | Test the update subject day process with the radio button is selected. | The admin clicks the Update Time button after selecting the time. | Display “Time has been updated successfully”. |
| TC8.002 | Test the update subject day process with the radio button is not selected. | The admin clicks the Update Time button without selecting the time. | Display “Please select one of these options”. |

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| **Test ID** | T1.009 | | |
| **Module Name** | Update Subject Age | | |
| **Test Description** | To update the subject age requirement. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC9.001 | Test the subject age requirement update process by changing the textbox value. | The admin clicks the Update Age button after changing the textbox value. | Display “Age has been updated successfully”. |

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| **Test ID** | T1.010 | | |
| **Module Name** | Update Subject Price | | |
| **Test Description** | To update the subject price. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC10.001 | Test the subject price update process by changing the textbox value. | The admin clicks the Update Price button after changing the textbox value. | Display “Price has been updated successfully”. |

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| **Test ID** | T1.011 | | |
| **Module Name** | Update Subject Quantity | | |
| **Test Description** | To update the subject quantity. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC11.001 | Test the subject quantity update process by changing the textbox value. | The admin clicks the Update Quantity button after changing the textbox value. | Display “Quantity has been updated successfully”. |

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| **Test ID** | T1.012 | | |
| **Module Name** | Update Subject Description | | |
| **Test Description** | To update the subject description. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC12.001 | Test the subject description update process by changing the textbox sentence. | The admin clicks the Update Description button after changing the textbox value. | Display “Description has been updated successfully”. |

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| **Test ID** | T1.013 | | |
| **Module Name** | Update Subject Terms & Condition | | |
| **Test Description** | To update the subject terms and condition. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC13.001 | Test the subject terms and condition update process by changing the textbox sentence. | The admin clicks the Update T&C button after changing the textbox value. | Display “Terms & Condition has been updated successfully”. |

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| **Test ID** | T1.014 | | |
| **Module Name** | Remove Subject | | |
| **Test Description** | To remove the unwanted subject. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC14.001 | Test the subject removal process by clicking the remove button. | The admin clicks the Remove button at the Action section. | Display “Are you sure you want to delete? (OK/Cancel) ”. |
| TC14.002 | Test the subject removal process by clicking the “OK” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | The admin clicks the OK button. | Display “Subject has been removed successfully.” |
| TC14.003 | Test the subject removal process by clicking the “Cancel” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | The admin clicks the Cancel button. | Display the same page with no changes. |

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| **Test ID** | T1.015 | | |
| **Module Name** | Add Teacher | | |
| **Test Description** | To add new teacher details. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC15.001 | Test the add new teacher details process with all necessary information entered, data that does not yet exist in the database, email address is in the correct format and password length follows the required rules. | The admin clicks the Add Teacher button after selecting subject option, filling out all textboxes and inserting the email address with the correct format and password length follows the required rules. | Display “New teacher has been added successfully”. |
| TC15.002 | Test the add new teacher details process with all necessary information entered, data that already exist in the database, email address is in the correct format and password length follows the required rules. | The admin clicks the Add Teacher button after selecting subject option, filling out all textboxes but the data already exists in the database and inserting the email address with  the correct format and password | Display “IC/Phone number or email already registered.” |

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|  |  | length follows the required rules. |  |
| TC15.003 | Test the add new teacher details process with all necessary information entered, data that does not yet exist in the database, email address is in the correct format but password length does not follow the required rules. | The admin clicks the Add Teacher button after selecting subject option, filling out all textboxes and inserting the email address with the correct format and password length does not follow the required rules. | Display “Please match the requested format.” |
| TC15.004 | Test the add new teacher details process with email address is not in the correct format. | The admin inserts the email address with the incorrect format. | Display “Error : You did not enter a valid email.” |
| TC15.005 | Test the add new teacher details process with IC that already exists in the database. | The admin inserts the IC number that already exists in the database. | Display “IC already exist. Please use other than that.” |
| TC15.006 | Test the add new teacher details process with phone number that already exists in the database. | The admin inserts the phone number that already exists in the database. | Display “Phone number already exist. Please use other than that.” |

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| TC15.007 | Test the add new teacher details process with email address that already exists in the database. | The admin inserts the email address that already exists in the database. | Display “Email already exist. Please use other than that.” |

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| **Test ID** | T1.016 | | |
| **Module Name** | Assign Subject | | |
| **Test Description** | To subject details to specific teacher. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC16.001 | Test the assign subject process by selecting the teacher who has been assigned to teach another subject on the same day and time. | The admin clicks the Assign Subject button after selecting the teacher who is already teaching another subject at the same time and on the same day. | Display “Teacher cannot teach in the same day and time.” |
| TC16.002 | Test the assign subject process by selecting the teacher who has not been assigned to teach any subject. | The admin clicks the Assign Subject button after selecting the teacher. | Display “Teacher has been assigned successfully.” |
| TC16.003 | Test the assign subject process by selecting | The admin clicks the Assign | Display “Teacher has been |

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|  | the teacher who has been assigned to teach another subject but not on the same day and time. | Subject button after selecting the teacher who is not teaching any subject at the same time and on the same day. | assigned successfully.” |

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| **Test ID** | T1.017 | | |
| **Module Name** | Remove Teacher | | |
| **Test Description** | To remove the unwanted teacher. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC17.001 | Test the teacher removal process by clicking the remove button. | The admin clicks the Remove button at the Action section. | Display “Are you sure you want to delete? (OK/Cancel) ”. |
| TC17.002 | Test the teacher removal process by clicking the “OK” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | The admin clicks the OK button. | Display “Teacher data has been deleted successfully.” |
| TC17.003 | Test the teacher removal process by clicking the “Cancel” button after the message “Are | The admin clicks the Cancel button. | Display the same page with no changes. |

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|  | you sure you want to delete? (OK/Cancel)” appeared. |  |  |

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| **Test ID** | T1.018 | | |
| **Module Name** | Subject Intake Report | | |
| **Test Description** | To view the subject intake report by choosing the desired subject, month and year. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC18.001 | Test the subject intake report process by choosing the desired subject, month and year. | The admin clicks the Review button after selecting the desired subject, month and year. | Display “Review For: (Subject) : (Month), (Year)” and display all of the data that has been found during the search. |

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| **Test ID** | T1.019 | | |
| **Module Name** | Monthly Report | | |
| **Test Description** | To view the monthly subject report. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC19.001 | Test the monthly subject report process by choosing the desired subject, month and year. | The admin clicks the Review button after selecting the desired subject, month and year. | Display all of the data discovered during the search, including total students and sales for the selected month. |

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| **Test ID** | T1.020 | | |
| **Module Name** | Yearly Report | | |
| **Test Description** | To view the yearly subject report. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC20.001 | Test the yearly subject report process by choosing the desired year. | The admin clicks the Review button after selecting the | Display all of the data discovered during the search,  including total sales for the |

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|  |  | desired year. | selected year and the total sales for each month of that year. |

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| **Test ID** | T1.021 | | |
| **Module Name** | Update Profile Details | | |
| **Test Description** | To update profile details. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC21.001 | Test the update profile details process with all necessary information entered, data that does not yet exist in the database and email address is in the correct format. | The admin clicks the Update Profile button after entering phone number and email address that have not yet been recorded in the database and email address is in the correct format. | Display “Email has been updated successfully!”.“Phone number has been updated successfully!”. |

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| TC21.002 | Test the update profile details process with all necessary information entered, phone number and email address already exist in the database and email address is in the correct format. | The admin clicks the Update Profile button after entering phone number and email address that already exist in the database and email address is in the correct format. | Display “Email already exist. Please use other than that.” “Phone number already exist. Please use other than that.” |
| TC21.003 | Test the update profile details process with all necessary information entered, data already exist in the database and email address is not in the correct format. | The admin clicks the Update Profile button after entering phone number and email address that already exist in the database and email address is in the incorrect format. | Display “Error: You did not enter a valid email.” |

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| **Test ID** | T1.022 | | |
| **Module Name** | Change Password | | |
| **Test Description** | To change password. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC22.001 | Test the password change process with the old password matching the current password, new and confirm password is the same. | The admin clicks the Change Password button after entering old password that matches with the current password, new and confirm password is the same. | Display “Password has been changed successfully!”. |
| TC22.002 | Test the password change process with the old password not matching the current password, new and confirm password is the same. | The admin clicks the Change Password button after entering old password that does not matches with the current password, new and confirm password is the same. | Display “Uh-oh! Old password not match.” |
| TC22.003 | Test the password change process with the old password not matching the current | The admin clicks the Change Password button after entering | Display “New Password and Confirm Password do not |

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|  | password, new and confirm password is not the same. | old password that does not matches with the current password, new and confirm password is not the same. | match!” |
| TC22.004 | Test the password change process with the old password matching the current password, new and confirm password is the same but not follow the requested format. | The admin clicks the Change Password button after entering old password that matches with the current password, new and confirm password is the same but not follow the requested format. | Display “Please match the requested format.” |

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| **Test ID** | T2.023 | | |
| **Module Name** | Teacher Login | | |
| **Test Description** | To access the teacher main page. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC23.001 | Test the login process with a registered IC or email address and a valid password. | The teacher clicks the Login button after entering the valid IC or email address and password. | Redirect to teacher main page (Student Report Page). |
| TC23.002 | Test the login process with a registered IC or email address and an invalid password. | The teacher clicks the Login button after entering the valid IC or email address but the password is incorrect. | Display “Invalid IC/Email or Password”. |
| TC23.003 | Test the login process with an unregistered IC or email address and a valid password. | The teacher clicks the Login button after entering the invalid IC or email address but the password is correct. | Display “Invalid IC/Email or Password”. |

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| TC23.004 | Test the login process with an unregistered IC or email address and an invalid password. | The teacher clicks the Login button after entering the invalid IC or email address and password. | Display “Invalid IC/Email or Password”. |

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| **Test ID** | T2.024 | | |
| **Module Name** | Teacher Forget Password | | |
| **Test Description** | To reset teacher’s password. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC24.001 | Test the reset password process with a registered IC number, valid email address and phone number, new and confirm password is the same and follow the required rules. | The teacher clicks the Reset Password button after entering the valid IC, email address and phone number, and new and confirm password is the same and follow the required rules. | Display “Password has been changed successfully! Please Login First.” |
| TC24.002 | Test the reset password process with an unregistered IC number, valid email address | The teacher clicks the Reset Password button after entering | Display “Uh-Oh! No account found.” |

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|  | and phone number, new and confirm password is the same and follow the required rules. | the invalid IC, valid email address and phone number, and new and confirm password is the same and follow the required rules. |  |
| TC24.003 | Test the reset password process with a registered IC number, invalid email address and phone number, new and confirm password is the same and follow the required rules. | The teacher clicks the Reset Password button after entering the valid IC, invalid email address and phone number and new and confirm password is the same and follow the required rules. | Display “Uh-Oh! No account found.” |
| TC24.004 | Test the reset password process with an unregistered IC number, invalid email address and phone number, new and confirm password is the same and follow the required rules. | The teacher clicks the Reset Password button after entering the invalid IC, email address and phone number, and new and confirm password is the same and follow the required rules. | Display “Uh-Oh! No account found.” |

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| TC24.005 | Test the reset password process with an unregistered IC number, invalid email address and phone number, new and confirm password is not the same and not follow the required rules. | The teacher clicks the Reset Password button after entering the invalid IC, email address and phone number, and new and confirm password is not the same and not follow the required rules. | Display “Uh-Oh! Password and Re-Type Password Field Do Not Match.” |
| TC24.006 | Test the reset password process with a | The teacher clicks the Reset | Display “Display “Uh-Oh! |
|  | registered IC number, valid email address | Password button after entering | Password and Re-Type |
|  | and phone number, new and confirm | the valid IC, email address and | Password Field Do Not Match.” |
|  | password is not the same and follow the | phone number, and new and |  |
|  | required rules. | confirm password is the not |  |
|  |  | same and follow the required |  |
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| **Test ID** | T2.025 | | |
| **Module Name** | Add Reference | | |
| **Test Description** | To add the subject references and materials. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC25.001 | Test the add reference process with all necessary information entered and in the correct format. | The teacher clicks the Insert button after selecting subject, month and week options, filling out all textboxes and inserting the class link, lesson and video material with the correct format. | Display “Reference has been added successfully”. |
| TC25.002 | Test the add subject details process with all necessary information entered but the lesson material section's format is incorrect. | The teacher clicks the Insert button after selecting subject, month and week options, filling out all textboxes and inserting the class link and video material with the correct format but lesson material section's format is incorrect. | Display “Your file extension must be .zip, .pdf or .docx”. |

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| TC25.003 | Test the add subject details process with all necessary information entered but the video material section's format is incorrect. | The teacher clicks the Insert button after selecting subject, month and week options, filling out all textboxes and inserting the class link and lesson material with the correct format but video material section's format is incorrect. | Display “Your video extension must be .mp4 or .mov only”. |

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| **Test ID** | T2.026 | | |
| **Module Name** | Update Reference Video | | |
| **Test Description** | To update the reference video. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC26.001 | Test the update reference video process with the correct format for video insertion. | The teacher clicks the Update Video button after inserting the video reference with the correct format. | Display “Video has been updated successfully”. |
| TC26.002 | Test the update reference video process with no video insertion. | The teacher clicks the Update Video button without inserting any video reference. | Display “Please select a file”. |

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| **Test ID** | T2.027 | | |
| **Module Name** | Update Material | | |
| **Test Description** | To update the reference materials. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC27.001 | Test the update reference materials process with the correct format for materials insertion. | The teacher clicks the Update Material button after inserting the material with the correct format. | Display “Material has been updated successfully”. |
| TC27.002 | Test the update reference materials process with no material insertion. | The teacher clicks the Update Material button without inserting any material. | Display “Please select a file”. |

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| **Test ID** | T2.028 | | |
| **Module Name** | Update Reference Description | | |
| **Test Description** | To update the reference description. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC28.001 | Test the reference description update process by changing the textbox sentence. | The teacher clicks the Update Description button after changing the textbox value. | Display the updated sentence. |

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| **Test ID** | T2.029 | | |
| **Module Name** | Update Reference Month Week | | |
| **Test Description** | To update the reference month and week. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC29.001 | Test the reference month and week update process by choosing the desired month and week. | The teacher clicks the Update Reference button after choosing the desired month and week. | Display the updated month and week. |

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| **Test ID** | T2.030 | | |
| **Module Name** | Update Class Link | | |
| **Test Description** | To update the class link. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC30.001 | Test the class link update process by inserting new link to the textbox. | The teacher clicks the Update Link button after changing the textbox value. | Display “Class link has been updated successfully”. |

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| **Test ID** | T2.031 | | |
| **Module Name** | Remove Reference | | |
| **Test Description** | To remove the unwanted reference. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC31.001 | Test the reference removal process by clicking the remove button. | The teacher clicks the Remove button at the Action section. | Display “Are you sure you want to delete? (OK/Cancel) ”. |
| TC31.002 | Test the reference removal process by | The teacher clicks the OK | Display “Reference has been |

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|  | clicking the “OK” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | button. | deleted successfully” |
| TC31.003 | Test the reference removal process by clicking the “Cancel” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | The teacher clicks the Cancel button. | Display the same page with no changes. |

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| **Test ID** | T2.032 | | |
| **Module Name** | Update Profile Details | | |
| **Test Description** | To update profile details. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC32.001 | Test the update profile details process with all necessary information entered, data that does not yet exist in the database and email address is in the correct format. | The teacher clicks the Update Profile button after entering phone number and email address that have not yet been recorded in the database and  email address is in the correct | Display “Email has been updated successfully!”. “Phone number has been updated successfully!”. |

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|  |  | format. |  |
| TC32.002 | Test the update profile details process with all necessary information entered, phone number and email address already exist in the database and email address is in the correct format. | The teacher clicks the Update Profile button after entering phone number and email address that already exist in the database and email address is in the correct format. | Display “Email already exist. Please use other than that.” “Phone number already exist. Please use other than that.” |
| TC32.003 | Test the update profile details process with all necessary information entered, data already exist in the database and email address is not in the correct format. | The teacher clicks the Update Profile button after entering phone number and email address that already exist in the database and email address is in the incorrect format. | Display “Error : You did not enter a valid email.” |

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| **Test ID** | T2.033 | | |
| **Module Name** | Change Password | | |
| **Test Description** | To change password. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC33.001 | Test the password change process with the old password matching the current password, new and confirm password is the same. | The teacher clicks the Change Password button after entering old password that matches with the current password, new and confirm password is the same. | Display “Password has been changed successfully!”. |
| TC33.002 | Test the password change process with the old password not matching the current password, new and confirm password is the same. | The teacher clicks the Change Password button after entering old password that does not matches with the current password, new and confirm password is the same. | Display “Uh-oh! Old password not match.” |
| TC33.003 | Test the password change process with the old password not matching the current | The teacher clicks the Change Password button after entering | Display “New Password and Confirm Password do not |

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|  | password, new and confirm password is not the same. | old password that does not matches with the current password, new and confirm password is not the same. | match!” |
| TC33.004 | Test the password change process with the old password matching the current password, new and confirm password is the same but not follow the requested format. | The teacher clicks the Change Password button after entering old password that matches with the current password, new and confirm password is the same but not follow the requested format. | Display “Please match the requested format.” |

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| **Test ID** | T3.034 | | |
| **Module Name** | Sign Up Account | | |
| **Test Description** | To register new account. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC34.001 | Test the account registration process with all necessary information entered and in the correct format. | The student clicks the Register button after selecting date-of- birth, nationality and state options, filling out all textboxes, inserting the email address with the correct format, password and confirm password is the same and follows the requested format. | Display “Student has been registered succssfully! Please Login First.” |
| TC34.002 | Test the account registration process with all necessary information entered and in the correct format but IC number already exists in the database. | The student clicks the Register button after selecting date-of- birth, nationality and state options, filling out all textboxes,  inserting the email address with | Display “IC number already exist. Use other IC number.” |

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|  |  | the correct format, password and confirm password is the same and follows the requested format but the IC number already exists in the database. |  |
| TC34.003 | Test the account registration process with all necessary information entered and in the correct format but phone number already exists in the database. | The student clicks the Register button after selecting date-of- birth, nationality and state options, filling out all textboxes, inserting the email address with the correct format, password and confirm password is the same and follows the requested format but the phone number already exists in the database. | Display “Phone number already exist. Please use other than that.” |
| TC34.004 | Test the account registration process with all necessary information entered and in the correct format but email address already exists in the database. | The student clicks the Register button after selecting date-of- birth, nationality and state options, filling out all textboxes,  inserting the email address with | Display “Email already exist. Use other email.” |

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|  |  | the correct format, password and confirm password is the same and follows the requested format but the email address already exists in the database. |  |
| TC34.005 | Test the account registration process with all necessary information entered but email address is not in the correct format. | The student clicks the Register button after selecting date-of- birth, nationality and state options, filling out all textboxes, inserting the email address with the incorrect format, password and confirm password is the same and follows the requested format. | Display “Error: You did not enter a valid email.” |
| TC34.006 | Test the account registration process with the new and confirm password is not the same. | The student clicks the Register button after selecting date-of- birth, nationality and state options, filling out all textboxes, inserting the email address with  the correct format, password | Display “Uh-Oh! Password and Re-Type Password do not match.” |

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|  |  | and confirm password is not the same and follows the requested format. |  |
| TC34.007 | Test the password change process with the | The student clicks the Register | Display “Please match the |
|  | new and confirm password is the same but | button after selecting date-of- | requested format.” |
|  | not follow the requested format. | birth, nationality and state |  |
|  |  | options, filling out all textboxes, |  |
|  |  | inserting the email address with |  |
|  |  | the correct format, password |  |
|  |  | and confirm password is the |  |
|  |  | same but no follows the |  |
|  |  | requested format. |  |

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| **Test ID** | T3.035 | | |
| **Module Name** | Student Login | | |
| **Test Description** | To access the student main page. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC35.001 | Test the login process with a registered IC or email address and a valid password. | The student clicks the Login button after entering the valid IC or email address and password. | Redirect to administration main page (All Subject Details). |
| TC35.002 | Test the login process with a registered IC or email address and an invalid password. | The student clicks the Login button after entering the valid IC or email address but the password is incorrect. | Display “Invalid IC/Email or Password”. |
| TC35.003 | Test the login process with an unregistered IC or email address and a valid password. | The student clicks the Login button after entering the invalid IC or email address but the password is correct. | Display “Invalid IC/Email or Password”. |

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| TC35.004 | Test the login process with an unregistered IC or email address and an invalid password. | The student clicks the Login button after entering the invalid IC or email address and password. | Display “Invalid IC/Email or Password”. |

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| **Test ID** | T3.036 | | |
| **Module Name** | Student Forget Password | | |
| **Test Description** | To reset student’s password. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC36.001 | Test the reset password process with a registered IC number, valid email address and phone number, new and confirm password is the same and follow the required rules. | The student clicks the Reset Password button after entering the valid IC, email address and phone number, and new and confirm password is the same and follow the required rules. | Display “Password has been changed successfully! Please Login First.” |
| TC36.002 | Test the reset password process with an unregistered IC number, valid email address | The student clicks the Reset Password button after entering | Display “Uh-Oh! No account found.” |

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|  | and phone number, new and confirm password is the same and follow the required rules. | the invalid IC, valid email address and phone number, and new and confirm password is the same and follow the required rules. |  |
| TC36.003 | Test the reset password process with a registered IC number, invalid email address and phone number, new and confirm password is the same and follow the required rules. | The student clicks the Reset Password button after entering the valid IC, invalid email address and phone number and new and confirm password is the same and follow the required rules. | Display “Uh-Oh! No account found.” |
| TC36.004 | Test the reset password process with an unregistered IC number, invalid email address and phone number, new and confirm password is the same and follow the required rules. | The student clicks the Reset Password button after entering the invalid IC, email address and phone number, and new and confirm password is the same and follow the required rules. | Display “Uh-Oh! No account found.” |

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| TC36.005 | Test the reset password process with an unregistered IC number, invalid email address and phone number, new and confirm password is not the same and not follow the required rules. | The student clicks the Reset Password button after entering the invalid IC, email address and phone number, and new and confirm password is not the same and not follow the required rules. | Display “Please match the requested format.” |
| TC36.006 | Test the reset password process with a | The student clicks the Reset | Display “Uh-Oh! Password and |
|  | registered IC number, valid email address | Password button after entering | Re-Type Password Field Do |
|  | and phone number, new and confirm | the valid IC, email address and | Not Match.” |
|  | password is not the same and follow the | phone number, and new and |  |
|  | required rules. | confirm password is the not |  |
|  |  | same and follow the required |  |
|  |  | rules. |  |

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| **Test ID** | T3.037 | | |
| **Module Name** | Enrol Subject | | |
| **Test Description** | To enrol the desired subject. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC37.001 | Test the subject enrollment process by checking all desired subjects' checkboxes, then clicking the Proceed To Enrollment button and the Enrol button once it reaches the review page. | The student clicks the Proceed To Enrollment button after checking all desired subjects' checkboxes, and clicks the Enrol button once it reaches the review page. | Display “(Subject) has been enrolled successfully.” |
| TC37.002 | Test the subject enrollment process by checking all desired subjects' checkboxes, then clicking the Proceed To Enrollment button and the Enrol button once it reaches the review page but has already enrolled previously. | The student clicks the Proceed To Enrollment button after checking all desired subjects' checkboxes, and clicks the Enrol button once it reaches the review page but the subjects have already been enrolled. | Display “(Subject) has already enrolled previously.” |

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| TC37.003 | Test the subject enrollment process by unchecking any subjects' checkboxes and then clicking the Proceed To Enrollment button. | The student clicks the Proceed To Enrollment button without checking any desired subjects' checkboxes. | Display “Please check this box if you want to proceed.” |

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| **Test ID** | T3.038 | | |
| **Module Name** | Subject Payment | | |
| **Test Description** | To pay the subject according to the desired month. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC38.001 | Test the subject payment process by checking all desired subjects' checkboxes, then clicking the Proceed To Payment button, selecting the desired month and payment method, clicking the Pay button once it reaches the review page and the available intake for that particular subject is more than one. | The student clicks the Proceed To Payment button after checking all desired subjects' checkboxes, and clicks the Pay button once it reaches the review page after selecting the desired month and payment method and the available intake  for that particular subject is | Display “Payment for (Subject) in (Month) has been received successfully.” |

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|  |  | more than one. |  |
| TC38.002 | Test the subject payment process by checking | The student clicks the Proceed | Display “Insufficient seat. We |
|  | all desired subjects' checkboxes, then | To Payment button after | do not accept any student |
|  | clicking the Proceed To Payment button, | checking all desired subjects' | admission for (Subject) in |
|  | selecting the desired month and payment | checkboxes, and clicks the Pay | (Month).” |
|  | method, clicking the Pay button once it | button once it reaches the |  |
|  | reaches the review page and the available | review page after selecting the |  |
|  | intake for that particular subject is zero. | desired month and payment |  |
|  |  | method and the available intake |  |
|  |  | for that particular subject is |  |
|  |  | zero. |  |
| TC38.003 | Test the subject payment process by checking | The student clicks the Proceed | Display “Payment for (Subject) |
|  | all desired subjects' checkboxes, then | To Payment button after | in (Month) already made.” |
|  | clicking the Proceed To Payment button, | checking all desired subjects' |  |
|  | selecting the desired month and payment | checkboxes, and clicks the Pay |  |
|  | method, clicking the Pay button once it | button once it reaches the |  |
|  | reaches the review page and the available | review page after selecting the |  |
|  | intake for that particular subject is more than | desired month and payment |  |
|  | one but already paid for that chosen month. | method and the available intake |  |
|  |  | for that particular subject is |  |

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|  |  | more than one but already paid for that chosen month. |  |
| TC38.004 | Test the subject payment process by unchecking any subjects' checkboxes and then clicking the Proceed To Payment button. | The student clicks the Proceed To Payment button without checking any desired subjects' checkboxes. | Display “Please check this box if you want to proceed.” |
| TC38.005 | Test the subject payment process by checking all desired subjects' checkboxes, then clicking the Proceed To Payment button, not selecting any desired month and payment method, clicking the Pay button once it reaches the review page. | The student clicks the Proceed To Payment button after checking all desired subjects' checkboxes, and clicks the Pay button once it reaches the review page but not selecting any desired month and payment method. | Display “Please select an item in the list.” |

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| **Test ID** | T3.039 | | |
| **Module Name** | Update Grade | | |
| **Test Description** | To update the subject grade for each exam. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC39.001 | Test the update grade process with all necessary information selected. | The student clicks the Update Grade button after selecting the subject, examination, exam year and grade options. | Display “Grade has been added successfully.” |
| TC39.002 | Test the update grade process with all necessary information selected but the data already exists in the database. | The student clicks the Update Grade button after selecting the subject, examination, exam year and grade options but the data already exists in the database. | Display “Grade has been updated successfully.” |
| TC39.003 | Test the update grade process without selecting all or any necessary information. | The student clicks the Update Grade button without selecting any subject, examination, exam year and grade options. | Display “Please select an item in the list.” |

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| **Test ID** | T3.040 | | |
| **Module Name** | Update Profile Details | | |
| **Test Description** | To update profile details. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC40.001 | Test the update profile details process with all necessary information entered, data that does not yet exist in the database and email address is in the correct format. | The student clicks the Update Profile button after entering phone number and email address that have not yet been recorded in the database and email address is in the correct format. | Display “Email has been updated successfully!”.“Phone number has been updated successfully!”Address, Postcode & State has been updated successfully!. |
| TC40.002 | Test the update profile details process with all necessary information entered, phone number and email address already exist in the database and email address is in the correct format. | The student clicks the Update Profile button after entering phone number and email address that already exist in the database and email address is in the correct format. | Display “Email already exist. Please use other than that.” “Phone number already exist. Please use other than that.” |

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| TC40.003 | Test the update profile details process with all necessary information entered, data already exist in the database and email address is not in the correct format. | The student clicks the Update Profile button after entering phone number and email address that already exist in the database and email address is in the incorrect format. | Display “Error : You did not enter a valid email.” |

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| **Test ID** | T3.041 | | |
| **Module Name** | Change Password | | |
| **Test Description** | To change password. | | |
| **Test Case ID** | **Test Case Description** | **Procedures** | **Expected Result** |
| TC41.001 | Test the password change process with the old password matching the current password, new and confirm password is the same. | The student clicks the Change Password button after entering old password that matches with the current password, new and confirm password is the same. | Display “Password has been changed successfully!”. |

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| TC41.002 | Test the password change process with the old password not matching the current password, new and confirm password is the same. | The student clicks the Change Password button after entering old password that does not matches with the current password, new and confirm password is the same. | Display “Uh-oh! Old password not match.” |
| TC41.003 | Test the password change process with the old password not matching the current password, new and confirm password is not the same. | The student clicks the Change Password button after entering old password that does not matches with the current password, new and confirm password is not the same. | Display “New Password and Confirm Password do not match!” |
| TC41.004 | Test the password change process with the old password matching the current password, new and confirm password is the same but not follow the requested format. | The student clicks the Change Password button after entering old password that matches with the current password, new and confirm password is the same but not follow the requested format. | Display “Please match the requested format.” |

* + 1. **TEST DATA**

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| No. | Test ID | Type Of Test Data |
| 1. | T1.001 | Real life data |
| 2. | T1.002 | Real life data |
| 3. | T1.003 | Real life data |
| 4. | T1.004 | Real life data |
| 5. | T1.005 | Real life data |
| 6. | T1.006 | Real life data |
| 7. | T1.007 | Real life data |
| 8. | T1.008 | Real life data |
| 9. | T1.009 | Real life data |
| 10. | T1.010 | Real life data |
| 11. | T1.011 | Real life data |
| 12. | T1.012 | Real life data |
| 13. | T1.013 | Real life data |
| 14. | T1.014 | Real life data |
| 15. | T1.015 | Real life data |
| 16. | T1.016 | Real life data |
| 17. | T1.017 | Real life data |
| 18. | T1.018 | Real life data |
| 19. | T1.019 | Real life data |
| 20. | T1.020 | Real life data |
| 21. | T1.021 | Real life data |

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| 22. | T1.022 | Real life data |
| 23. | T2.023 | Real life data |
| 24. | T2.024 | Real life data |
| 25. | T2.025 | Real life data |
| 26. | T2.026 | Real life data |
| 27. | T2.027 | Real life data |
| 28. | T2.028 | Real life data |
| 29. | T2.029 | Real life data |
| 30. | T2.030 | Real life data |
| 31. | T2.031 | Real life data |
| 32. | T2.032 | Real life data |
| 33. | T2.033 | Real life data |
| 34. | T3.034 | Real life data |
| 35. | T3.035 | Real life data |
| 36. | T3.036 | Real life data |
| 37. | T3.037 | Real life data |
| 38. | T3.038 | Synthetic data |
| 39. | T3.039 | Real life data |
| 40. | T3.040 | Real life data |
| 41. | T3.041 | Real life data |

* 1. **TEST RESULTS AND ANALYSIS**

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| **Test ID** | T1.001 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC1.001 | IC 790509016486  Password : saraAmeena79!  **Or**  Email : [saraameena@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Password : saraAmeena79! | Redirect to administration main page (Report Page). | Success |
| TC1.002 | IC 790509016486  Password : saraAmeena1!  **Or**  Email : [saraameena@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Password : saraAmeena1! | Display “Invalid IC/Email or Password”. | Success |

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| TC1.003 | IC 750509016412  Password : saraAmeena79!  **Or**  Email : [saraameena@brilliance.edu.com](mailto:saraameena@brilliance.edu.com) Password : saraAmeena79! | Display “Invalid Password”. | IC/Email | or | Success |
| TC1.004 | IC 750509016412  Password : saraAmeena1!  **Or**  Email : [saraameena@brilliance.edu.com](mailto:saraameena@brilliance.edu.com) Password : saraAmeena1! | Display “Invalid Password”. | IC/Email | or | Success |

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| **Test ID** | T1.002 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC2.001 | IC 790509016486  Email : [saraameena@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Phone number : 07-7735511  New Password : saraAmeenaT86!  Confirm Password : saraAmeenaT86! | Display “Password has been changed successfully! Please Login First.” | Success |
| TC2.002 | IC 750509016412  Email : [saraameena@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Phone number : 07-7735511  New Password : saraAmeenaT86!  Confirm Password : saraAmeenaT86! | Display “Uh-Oh! No account found.” | Success |

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| TC2.003 | IC 790509016486  Email : [saraameena@brilliance.edu.](mailto:saraameena@brilliance.edu.my)com Phone number : 07-7735586  New Password : saraAmeenaT86!  Confirm Password : saraAmeenaT86! | Display “Uh-Oh! No account found.” | Success |
| TC2.004 | IC 750509016412  Email : [saraameena@brilliance.edu.](mailto:saraameena@brilliance.edu.my)com Phone number : 07-7735586  New Password : saraAmeenaT86!  Confirm Password : saraAmeenaT86! | Display “Uh-Oh! No account found.” | Success |
| TC2.005 | IC 750509016412  Email : [saraameena@brilliance.edu.](mailto:saraameena@brilliance.edu.my)com Phone number : 07-7735586  New Password : saraAmeena  Confirm Password : saraAmeena1 | Display “Please match the requested format.” | Success |

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| TC2.006 | IC 790509016486  Email : [saraameena@brilliance.edu.](mailto:saraameena@brilliance.edu.my)my Phone number : 07-7735511  New Password : saraAmeena123!  Confirm Password : saraAmeena157! | Display “Uh-Oh! Password and Re-Type Password Field Do Not Match.” | Success |

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| **Test ID** | T1.003 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC3.001 | Subject Name : Science  Image : Science.png | Display “Subject has been added successfully”. | Success |
| TC3.002 | Subject Name : English  Image : English.png | Display “Subject already exist. Please use other than that.” | Success |
| TC3.003 | Subject Name : English  Image : English.pdf | Display “Your image extension must be .jpg, .jpeg or .png” | Success |
| TC3.004 | Subject Name : Mathematics  Image : Mathematics.pdf | Display “Your image extension must be .jpg, .jpeg or .png” | Success |

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| **Test ID** | T1.004 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC4.001 | Select Subject : Chemistry  Fee (RM) 35  Day : Monday  Time : 8pm-10pm  Duration (Hours) 2  Recommended Age 17  Maximum student quantity : 25 Terms & Condition : None  Description : None  Schedule : ScheduleF5.pdf | Display “Subject has been added successfully”. | Success |
| TC4.002 | Select Subject : Chemistry  Fee (RM) 35 | Display “Your file extension must be .zip, .pdf or .docx”. | Success |

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|  | Day : Monday  Time : 8pm-10pm  Duration (Hours) 2  Recommended Age 17  Maximum student quantity : 25 Terms & Condition : None  Description : None  Schedule : Mathematics.png |  |  |
| TC4.003 | Test the add subject details process with the subject, day and time same as existed in the database. | Display “Subject is ineligible for the same day and time.” | Success |
|  | Select Subject : Chemistry |  |  |
|  | Fee (RM) 35 |  |  |
|  | Day : Monday |  |  |
|  | Time : 8pm-10pm |  |  |
|  | Duration (Hours) 2 |  |  |
|  | Recommended Age 17 |  |  |

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|  | Maximum student quantity : 25 Terms & Condition : None  Description : None  Schedule : ScheduleF5.pdf |  |  |
| TC4.004 | Test the add subject details process with the day, time and age same as existed in the database.  Select Subject : Additional Mathematics | Display “Subject is ineligible for the identical day and time for the identical age.” | Success |
|  | Fee (RM) 35 |  |  |
|  | Day : Monday |  |  |
|  | Time : 8pm-10pm |  |  |
|  | Duration (Hours) 2 |  |  |
|  | Recommended Age 17 |  |  |
|  | Maximum student quantity : 25 |  |  |
|  | Terms & Condition : None |  |  |
|  | Description : None |  |  |
|  | Schedule : ScheduleF5.pdf |  |  |

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| **Test ID** | T1.005 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC5.001 | Image : Chemistry.png | Display “Image has been updated successfully”. | Success |
| TC5.002 | Image : (null) | Display “Please select a file”. | Success |

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| **Test ID** | T1.006 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC6.001 | Timetable : ScheduleLatestF5.pdf | Display “Timetable has been updated successfully”. | Success |
| TC6.002 | Timetable : (null) | Display “Please select a file”. | Success |

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| **Test ID** | T1.007 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC7.001 | Day : Monday | Display “Day has been updated successfully”. | Success |
| TC7.002 | Day : (null) | Display “Please select one of these options”. | Success |

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| **Test ID** | T1.008 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC8.001 | Time : 8pm-10pm  Duration : 2 | Display “Time has been updated successfully”. | Success |
| TC8.002 | Time : (null)  Duration : 2 | Display “Please select one of these options”. | Success |

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| **Test ID** | T1.009 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC9.001 | Name : Chemistry  Recommended Age : 16 | Display “Age has been updated successfully”. | Success |

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| **Test ID** | T1.010 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC10.001 | Price : 25 | Display “Price has been updated successfully”. | Success |

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| **Test ID** | T1.011 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC11.001 | Maximum quantity : 20 | Display “Quantity has been updated successfully”. | Success |

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| **Test ID** | T1.012 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC12.001 | Description: Scientific study of the properties and behavior of matter. | Display “Description has been updated successfully”. | Success |

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| **Test ID** | T1.013 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC13.001 | Terms & Condition: Has completed or watched a lab experiment. | Display “Terms & Condition has been updated successfully”. | Success |

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| **Test ID** | T1.014 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC14.001 | Action : (Click Remove Button) | Display “Are you sure you want to delete? (OK/Cancel) ”. | Success |
| TC14.002 | Click the “OK” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | Display “Subject has been removed successfully.” | Success |
| TC14.003 | Click the “Cancel” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | Display the same page with no changes. | Success |

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| **Test ID** | T1.015 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC15.001 | IC No 790509021722  First Name : Fatin Alia Last Name : Faisal Phone No 0127262511  Email : [alia@brilliance.edu.my](mailto:alia@brilliance.edu.my)  Password : fatinaLia2! Select Subject : Physics | Display “New teacher has been added successfully”. | Success |
| TC15.002 | IC No 731002017727  First Name : Ahmad Last Name : Latif  Phone No 0127775262  Email : [ahmad@brilliance.edu.my](mailto:ahmad@brilliance.edu.my) | Display “IC/Phone number or email already registered.” | Success |

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|  | Password : ahmadLatif27!  Select Subject : English |  |  |
| TC15.003 | IC No 731002031182  First Name : Muhammad Jamal | Display “Please match the requested format.” | Success |
|  | Last Name : Jamil |  |  |
|  | Phone No 0197181778 |  |  |
|  | Email : [jamal@brilliance.edu.my](mailto:jamal@brilliance.edu.my) |  |  |
|  | Password : jamal |  |  |
|  | Select Subject : Physics |  |  |
| TC15.004 | IC No 731002031182  First Name : Muhammad Jamal | Display “Error : You did not enter a valid email.” | Success |
|  | Last Name : Jamil |  |  |
|  | Phone No 0197181778 |  |  |
|  | Email : jamal |  |  |
|  | Password : jamalJamil82! |  |  |
|  | Select Subject : Physics |  |  |

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| TC15.005 | IC No 731002017727 | Display “IC already exist. Please use other than that.” | Success |
| TC15.006 | Phone No 0127775262 | Display “Phone number already exist. Please use other than that.” | Success |
| TC15.007 | Email : [ahmad@brilliance.edu.my](mailto:ahmad@brilliance.edu.my) | Display “Email already exist. Please use other than that.” | Success |

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| **Test ID** | T1.016 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC16.001 | Subject : 16 Years Old - Additional Mathematics Day : Monday: 8pm-10pm  Teacher Assigned : Izara Afeera Izudin  Subject : 17 Years Old - Additional Mathematics | Display “Teacher cannot teach in the same day and time.” | Success |

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|  | Day : Monday: 8pm-10pm  Teacher Assigned : Izara Afeera Izudin |  |  |
| TC16.002 | Subject : 17 Years Old - Chemistry  Day : Monday: 8pm-10pm Teacher Assigned : Muhammad Amirul Sofian | Display “Teacher has been assigned successfully.” | Success |
| TC16.003 | Subject : 15 Years Old - English  Day : Sunday: 10am-12pm Teacher Assigned : Raihana Balqis Sofian  Subject : 17 Years Old - English  Day : Saturday: 8pm-10pm Teacher Assigned : Raihana Balqis Sofian | Display “Teacher has been assigned successfully.” | Success |

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| **Test ID** | T1.017 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC17.001 | Action : (Click Remove Button) | Display “Are you sure you want to delete? (OK/Cancel) ”. | Success |
| TC17.002 | Click the “OK” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | Display “Teacher data has been deleted successfully.” | Success |
| TC17.003 | Click the “Cancel” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | Display the same page with no changes. | Success |

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| **Test ID** | T1.018 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC18.001 | Select Subject : Additional Mathematics Select Month : August  Select Year : 2022 | Display “Review For: Additional Mathematics : August, 2022” and display all of the data that has been found during the search. | Success |

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| **Test ID** | T1.019 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC19.001 | Select Subject : Additional Mathematics Select Month : August  Select Year : 2022 | Display all of the data discovered during the search, including total students and sales for the selected month. | Success |

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| **Test ID** | T1.020 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC20.001 | Select Year : 2022 | Display all of the data discovered during the search, including total sales for the selected year and the total sales for each month of that year. | Success |

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| **Test ID** | T1.021 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC21.001 | Phone number : 07-7735522  Email : [saraameena@brilliance.edu.com](mailto:saraameena@brilliance.edu.com) | Display “Email has been updated successfully!”.“Phone number has been updated successfully!”. | Success |
| TC21.002 | Phone number : 07-7762524  Email : [adam.ismail@brilliance.edu.my](mailto:adam.ismail@brilliance.edu.my) | Display “Email already exist. Please use other than that.” “Phone number already exist. Please use other than that.” | Success |
| TC21.003 | Phone number : 07-7762524  Email : adam.ismail | Display “Error : You did not enter a valid email.” | Success |

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| **Test ID** | T1.022 | | |
| **Actor** | Admin | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC22.001 | Old Password : saraAmeena79! New Password : saraAmeenaT1!  Confirm Password : saraAmeenaT1! | Display “Password has been changed successfully!”. | Success |
| TC22.002 | Old Password : saraAmeena1! New Password : saraAmeenaT1! Confirm Password : saraAmeenaT1! | Display “Uh-oh! Old password not match.” | Success |
| TC22.003 | Old Password : saraAmeena1! New Password : saraAmeenaT1!  Confirm Password : saraAmenaT1 | Display “New Password and Confirm Password do not match!” | Success |
| TC22.004 | Old Password : saraAmeena79! New Password : saraAmeena  Confirm Password : saraAmeena | Display “Please match the requested format.” | Success |

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| **Test ID** | T2.023 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC23.001 | IC 731002017721  Password : haikalHanaf1!  **Or**  Email : [haikal@brilliance.edu.my](mailto:haikal@brilliance.edu.my) Password : haikalHanaf1! | Redirect to teacher main page (Student Report Page). | Success |
| TC23.002 | IC 731002017721  Password : haikalHan2!  **Or**  Email : [haikal@brilliance.edu.my](mailto:haikal@brilliance.edu.my) Password : haikalHan2! | Display “Invalid IC/Email or Password”. | Success |
| TC23.003 | IC 731002017711  Password : haikalHanaf1! | Display “Invalid IC/Email or Password”. | Success |

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|  | **Or**  Email : [haikal@brilliance.edu.com](mailto:haikal@brilliance.edu.com) Password : haikalHanaf1! |  |  |
| TC23.004 | IC 731002017711  Password : haikalHan2!  **Or**  Email : [haikal@brilliance.edu.com](mailto:haikal@brilliance.edu.com) Password : haikalHan2! | Display “Invalid IC/Email or Password”. | Success |

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| **Test ID** | T2.024 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC24.001 | IC 731002017721  Email : [haikal@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Phone number 0126789162  New Password : haiKalhanaf3!  Confirm Password : haiKalhanaf3! | Display “Password has been changed successfully! Please Login First.” | Success |
| TC24.002 | IC 731002017711  Email : [haikal@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Phone number 0126789162  New Password : haiKalhanaf3!  Confirm Password : haiKalhanaf3! | Display “Uh-Oh! No account found.” | Success |
| TC24.003 | IC 731002017721  Email : [haikal@brilliance.edu.c](mailto:saraameena@brilliance.edu.my)om | Display “Uh-Oh! No account found.” | Success |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Phone number 0126789121  New Password : haiKalhanaf3! Confirm Password : haiKalhanaf3! |  |  |
| TC24.004 | IC 731002017711  Email : [haikal@brilliance.edu.c](mailto:saraameena@brilliance.edu.my)om Phone number 0126789121  New Password : haiKalhanaf3!  Confirm Password : haiKalhanaf3! | Display “Uh-Oh! No account found.” | Success |
| TC24.005 | IC 731002017711  Email : [haikal@brilliance.edu.c](mailto:saraameena@brilliance.edu.my)om Phone number 0126789121  New Password : haiKal  Confirm Password : haiKalHan | Display “Please match the requested format.” | Success |
| TC24.006 | IC 731002017721  Email : [haikal@brilliance.edu.my](mailto:saraameena@brilliance.edu.my) Phone number 0126789162 | Display “Uh-Oh! Password and Re-Type Password Field Do Not Match.” | Success |

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|  | New Password : haiKalhanaf3!  Confirm Password : haiKalhanaf3!919 |  |  |

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| **Test ID** | T2.025 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC25.001 | Subject : 16 Years Old - Physics  Month : 2022 August  Week : Week 2  Lesson Material : PhysicsC8P2.pdf Description : Chapter 8 - Part 2 Video Material : PhysicsC8P2.mp4 Class Link :  https://teams.microsoft.com/l/channel/19%3aDtLwLwd32Sm LB9STAG\_Emr6nGYU\_crjMuv7- dvqLTmg1%40thread.tacv2/General?groupId=1de9e2e5-  cc08-4699-b6da-245903e6a5bf&tenantId=677eeb56-f2df- | Display “Reference has been added successfully”. | Success |

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| --- | --- | --- | --- |
|  | 4675-9e0c-ccd600a91580 |  |  |
| TC25.002 | Subject : 16 Years Old - Physics  Month : 2022 August  Week : Week 2 Lesson Material : Physics.png  Description : Chapter 8 - Part 2 Video Material : PhysicsC8P2.mp4 Class Link :  https://teams.microsoft.com/l/channel/19%3aDtLwLwd32Sm LB9STAG\_Emr6nGYU\_crjMuv7- dvqLTmg1%40thread.tacv2/General?groupId=1de9e2e5- cc08-4699-b6da-245903e6a5bf&tenantId=677eeb56-f2df- 4675-9e0c-ccd600a91580 | Display “Your file extension must be .zip, .pdf or .docx”. | Success |
| TC25.003 | Test the add subject details process with all necessary information entered but the video material section's format is incorrect.  Subject : 16 Years Old - Physics | Display “Your video extension must be .mp4 or .mov only”. | Success |

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|  | Month : 2022 August  Week : Week 2  Lesson Material : PhysicsC8P2.pdf Description : Chapter 8 - Part 2 Video Material : Physics.png Class Link :  https://teams.microsoft.com/l/channel/19%3aDtLwLwd32Sm LB9STAG\_Emr6nGYU\_crjMuv7- dvqLTmg1%40thread.tacv2/General?groupId=1de9e2e5- cc08-4699-b6da-245903e6a5bf&tenantId=677eeb56-f2df- 4675-9e0c-ccd600a91580 |  |  |

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| **Test ID** | T2.026 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC26.001 | Reference : PhysicsC9P2.mp4 | Display “Video has been updated successfully”. | Success |
| TC26.002 | Reference : (null) | Display “Please select a file”. | Success |

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| **Test ID** | T2.027 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC27.001 | Materials : PhysicsC9P2.pdf | Display “Material has been updated successfully”. | Success |
| TC27.002 | Materials : (null) | Display “Please select a file”. | Success |

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| **Test ID** | T2.028 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC28.001 | Description : Chapter 9 - Part 2 | Display the updated sentence. | Success |

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| **Test ID** | T2.029 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC29.001 | Month : 2022 September  Week : Week 1 | Display the updated month and week. | Success |

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| **Test ID** | T2.030 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC30.001 | Class Link :  https://teams.microsoft.com/l/channel/19%3a8dcqkbCgx\_50Z ic784lGTk9uvYJevbidqTZsCc6JaoM1%40thread.tacv2/Gene ral?groupId=ec33014b-adc6-49fb-aa94- 576b939a6227&tenantId=677eeb56-f2df-4675-9e0c- ccd600a91580 | Display “Class link has been updated successfully”. | Success |

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| **Test ID** | T2.031 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC31.001 | Action : (Click Remove Button) | Display “Are you sure you want to delete? (OK/Cancel) ”. | Success |
| TC31.002 | Click the “OK” button after the message “Are you sure you | Display “Reference has been | Success |

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|  | want to delete? (OK/Cancel)” appeared. | deleted successfully” |  |
| TC31.003 | Click the “Cancel” button after the message “Are you sure you want to delete? (OK/Cancel)” appeared. | Display the same page with no changes. | Success |

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| **Test ID** | T2.032 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC32.001 | Phone number : 0126789122  Email : [haikal@brilliance.edu.com](mailto:haikal@brilliance.edu.com) | Display “Email has been updated successfully!”. “Phone number has been updated successfully!”. | Success |
| TC32.002 | Phone number : 0137826277  Email : [amirul@brilliance.edu.my](mailto:amirul@brilliance.edu.my) | Display “Email already exist. Please use other than that.” “Phone number already exist. Please use other than that.” | Success |
| TC32.003 | Phone number : 0137826277  Email : amirulhaikal.com | Display “Error : You did not enter a valid email.” | Success |

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| **Test ID** | T2.033 | | |
| **Actor** | Teacher | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC33.001 | Old Password : haikalHanaf1! New Password : haikalHan2!  Confirm Password : haikalHan2! | Display “Password has been changed successfully!”. | Success |
| TC33.002 | Old Password : haikal1! New Password : haikalHan2! Confirm Password : haikalHan2! | Display “Uh-oh! Old password not match.” | Success |
| TC33.003 | Old Password : haikal1! New Password : haikalHan2!  Confirm Password : haikalHan234! | Display “New Password and Confirm Password do not match!” | Success |
| TC33.004 | Old Password : haikalHanaf1! New Password : haiHan  Confirm Password : haiHan | Display “Please match the requested format.” | Success |

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| **Test ID** | T3.035 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC35.001 | IC 070203011050  Password : miraAbu07!  **Or**  Email : [mira@gmail.com](mailto:mira@gmail.com) Password : miraAbu07! | Redirect to administration main page (All Subject Details). | Success |
| TC35.002 | IC 070203011050  Password : miraAbu0750!  **Or**  Email : [mira@gmail.com](mailto:mira@gmail.com) Password : miraAbu0750! | Display “Invalid IC/Email or Password”. | Success |
| TC35.003 | IC 070203011018  Password : miraAbu07! | Display “Invalid IC/Email or Password”. | Success |

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|  | **Or**  Email : [mira.abu@gmail.com](mailto:mira.abu@gmail.com) Password : miraAbu07! |  |  |
| TC35.004 | IC 070203011018  Password : miraAbu0750!  **Or**  Email : [mira.abu@gmail.com](mailto:mira.abu@gmail.com) Password : miraAbu0750! | Display “Invalid IC/Email or Password”. | Success |

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| **Test ID** | T3.036 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC36.001 | IC 070203011050  Email : [mira@gmail.com](mailto:mira@gmail.com) Phone number 01111482769 New Password : miraAbu32!  Confirm Password : miraAbu32! | Display “Password has been changed successfully! Please Login First.” | Success |
| TC36.002 | IC 070203011018  Email : [mira@gmail.com](mailto:mira@gmail.com) Phone number 01111482769 New Password : miraAbu32!  Confirm Password : miraAbu32! | Display “Uh-Oh! No account found.” | Success |
| TC36.003 | IC 070203011050  Email : [mira.abu@gmail.com](mailto:mira.abu@gmail.com) | Display “Uh-Oh! No account found.” | Success |

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|  | Phone number 01111482718  New Password : miraAbu32! Confirm Password : miraAbu32! |  |  |
| TC36.004 | IC 070203011018  Email : [mira.abu@gmail.com](mailto:mira.abu@gmail.com) Phone number 01111482718  New Password : miraAbu32!  Confirm Password : miraAbu32! | Display “Uh-Oh! No account found.” | Success |
| TC36.005 | IC 070203011018  Email : [mira.abu@gmail.com](mailto:mira.abu@gmail.com) Phone number 01111482718  New Password : miraAbu  Confirm Password : miraAbuBakar | Display “Please match the requested format.” | Success |
| TC36.006 | IC 070203011050  Email : [mira@gmail.com](mailto:mira@gmail.com) Phone number 01111482769 | Display “Uh-Oh! Password and Re-Type Password Field Do Not Match.” | Success |

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|  | New Password : miraAbu32!  Confirm Password : miraAbuBakar32! |  |  |

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| **Test ID** | T3.037 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC37.001 | Tick : 16 Years Old - Physics (Saturday: 8am-10am) | Display “Physics has been enrolled successfully.” | Success |
| TC37.002 | Tick : 16 Years Old - Additional Mathematics (Monday: 8pm-10pm) | Display “Additional Mathematics has already enrolled previously.” | Success |
| TC37.003 | Tick : (null) | Display “Please check this box if you want to proceed.” | Success |

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| **Test ID** | T3.038 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC38.001 | Tick : 16 Years Old - Physics (Saturday: 8am-10am) Month : 2022 September  Payment Method : Online Banking | Available Intake (25)  Display “Payment for Physics in 2022 September has been received successfully.” | Success |
| TC38.002 | Tick : 16 Years Old - Additional Mathematics (Monday: 8pm-10pm)  Month : 2022 September Payment Method : Online Banking | Available Intake (0)  Display “Insufficient seat. We do not accept any student admission for Additional Mathematics in 2022 September.” | Success |
| TC38.003 | Tick : 16 Years Old - Physics (Saturday: 8am-10am) Month : 2022 August  Payment Method : E-wallet | Available Intake (5)  Display “Payment for Physics in 2022 August already made.” | Success |
| TC38.004 | Tick : (null) | Display “Please check this box if | Success |

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|  |  | you want to proceed.” |  |
| TC38.005 | Tick : 16 Years Old - Physics (Saturday: 8am-10am) Month : (null)  Payment Method : (null) | Display “Please select an item in the list.” | Success |

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| **Test ID** | T3.039 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC39.001 | Subject : 16 Years Old - Physics Examination : Peperiksaan Penggal 2 Exam Year : 2022  Grade : B | Display “Grade has been added successfully.” | Success |
| TC39.002 | Subject : 16 Years Old - Physics  Examination : Peperiksaan Penggal 1 | Display “Grade has been updated successfully.” | Success |

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|  | Exam Year : 2022  Grade : C |  |  |
| TC39.003 | Subject : (null) Examination : (null) Exam Year : (null)  Grade : (null) | Display “Please select an item in the list.” | Success |

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| **Test ID** | T3.040 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC40.001 | Phone No : 01111482711  Address : SU3-3-2, Pangsapuri Sri Utama, Ayer Keroh Postcode : 75450  State : Melaka  Email : [mira.abubakar@gmail.com](mailto:mira.abubakar@gmail.com) | Display “Email has been updated successfully!”. “Phone number has been updated successfully!” Address, Postcode & State has been updated successfully!. | Success |

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| TC40.002 | Phone No : 0127251719  Address : SU3-3-2, Pangsapuri Sri Utama, Ayer Keroh Postcode : 75450  State : Melaka  Email : [ameena.ameen@gmail.com](mailto:ameena.ameen@gmail.com) | Display “Email already exist. Please use other than that.” “Phone number already exist. Please use other than that.” | Success |
| TC40.003 | Phone No : 0127251719  Address : SU3-3-2, Pangsapuri Sri Utama, Ayer Keroh Postcode : 75450  State : Melaka  Email : mira.abubakar | Display “Error : You did not enter a valid email.” | Success |

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| **Test ID** | T3.041 | | |
| **Actor** | Student (Public) | | |
| **Test Case ID** | **Test Case Data** | **Expected Result** | **Status** |
| TC41.001 | Old Password : miraAbu07! New Password : miraAbu32!  Confirm Password : miraAbu32! | Display “Password has been changed successfully!”. | Success |
| TC41.002 | Old Password : miraAbu0750! New Password : miraAbu32!  Confirm Password : miraAbu32! | Display “Uh-oh! Old password not match.” | Success |
| TC41.003 | Old Password : miraAbu0750! New Password : miraAbu32!  Confirm Password : miraAbuBakar32! | Display “New Password and Confirm Password do not match!” | Success |
| TC41.004 | Old Password : miraAbu07! New Password : miraAbu  Confirm Password : miraAbu | Display “Please match the requested format.” | Success |

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|  | | | 1 - Strongly Disagree  5 - Strongly Agree |
| No. | Item | Description | Rate (1 5) |
| 1. | The test cases straightforward to understand and follow. | The test case's list of steps have clear procedures. | 1 2 3 4 **5** |
| 2. | The test cases successfully tested the entire system. | The prepared test cases are sufficient. | 1 2 3 4 **5** |
| 3. | The test case documents include GUI. | Verify that a relevant GUI is attached to each test scenario. | 1 2 3 4 **5** |
| 4. | The test results or examples of test results provided. | Tester should be given test data. | 1 2 3 4 **5** |
| 5. | The system's inputs are all covered by the test cases. | Count the system's inputs and verify that all inputs are covered by the test data used in the test cases. | 1 2 3 4 **5** |

* 1. **CONCLUSION**

To give a brief, testing is crucial since it identifies problems and mistakes made throughout the development phase. It searches for any implementation-related errors. It makes sure that the intended audience trusts the team and that they continue to be satisfied with the application. The software testing prevents financial losses, and contracts occasionally include monetary penalties with regard to the timing and quality of the outcome. This chapter highlights system testing, which includes testing planning, the testing environment, which is conducted online, the hardware, firmware configurations, preparations, and training prior to testing used during the testing phase. Aside from that, the testing schedule shows how many cycles and duration of the test to be run, the strategy, the test description including the expected results, and the users' rating satisfaction analysis are all presented.

More information on the system completion phase will be provided in the following chapter. This also applies to the observations on the overall system's weaknesses and strengths, the suggestions on how the system can be improved further, the project contributions are higlighed as well.