1. **TESTING** 
   1. **Introduction**

Testing is the major quality control measures and during the software development it is used to detect errors that could have occurred during any of the phase like requirement analysis, design, coding. The goal of the testing is to uncover errors in the program.

* 1. **Levels of Testing**

Testing is done in different levels which includes the following.

* Unit Testing
* Integration Testing
* System testing
* Acceptance testing
  + - **Unit Testing**

In Unit testing each module gets tested during the coding phase itself. The purpose is to exercise the different parts of the module code to detect the coding errors.

* + - **Integration Testing**

After new testing the modules are gradually integrated into sub systems. It is performed to detect design errors by focusing on testing the interconnection between modules.

* + - **System Testing**

System is tested against the system requirement if all the requirements are met and if the system performs as specified by the requirement.

* + - **Acceptance Testing**

It is performed to demonstrate to the client on real life data of the client, the operation of the system.

**7.3 Test Case**

It is the input that tests the genuineness of the program and successful execution of the test case revels. that there are no errors in the program that are under testing. it is a set of conditions or variables under which tester will determine whether an application or software is working currently.

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| --- | --- |
| Testcase-ID | 01 |
| Test Case Title | login |
| Purpose of testing | To test the username and Password |
| Test data | Username and Password |
| Steps | Step 1:IF Username and Password is valid THEN  Step 2:DISPLAY Login successful  Step 3:ELSE DISPLAY Login Unsuccessful |
| Expected output | Valid Output    Invalid Output |

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| --- | --- |
| Testcase-ID | 02 |
| Test\_Case Title | View activity |
| Purpose of testing | To Test whether admin can view the activity or not |
| Test data | Association-id, activity-id |
| Steps | 1.Click on View Activity  2.Enter the Association-id, Activity-id  3.Click on search. |
| Expected Output | Valid output    Invalid Output |

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| --- | --- |
| Testcase-ID | 03 |
| Test Case Title | View attendance |
| Purpose of testing | To Test whether admin can view the student attendance or not |
| Test data | Association-id |
| Steps | 1.Click on View attendance  2.Enter the association-id.  3.Click on search to view |
| Expected Output | Valid Output    Invalid Output |

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| --- | --- |
| Testcase-ID | 04 |
| Test Case Title | Add association. |
| Purpose of testing | To Test whether the admin can add the association or not |
| Test data | Association-id, association name, association icon |
| Steps | 1.Click on add association  2.Enter the association-id, association name, association icon.  3.Click on add association |
| Expected Output | Valid Output    Invalid Output |

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| --- | --- |
| Testcase-ID | 05 |
| Test Case Title | Update association |
| Purpose of testing | To Test whether the admin can update the association or not |
| Test data | Association-id |
| Steps | 1.click on update association  2.Select association-id  3.Click on show association data  4.Modify association details  5.Click on save changes |
| Expected Output | Valid Input    Invalid Output |

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| --- | --- |
| Testcase-ID | 06 |
| Test Case Title | Delete association |
| Purpose of testing | To Test whether the admin can delete the association or not |
| Test data | Association-id |
| Steps | 1.Click on delete association  2.Select association-id  3.Click on show details  4.click on delete. |
| Expected Output | Valid Output |

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| --- | --- |
| Testcase-ID | 07 |
| Test Case Title | Add staff |
| Purpose of testing | To test whether admin can add the staff or not |
| Test data | Staff-id, staff name, password, email, contact no, department, association id |
| Steps | 1.Click on add student.  2.Enter staff-id, staff name, password, email, contact no, department, association id  2.Click on add staff |
| Expected Output | Valid Output    Invalid Output |

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| --- | --- |
| Testcase-ID | 08 |
| Test Case Title | Update staff |
| Purpose of testing | To test whether admin can update the staff or not |
| Test data | Staff-id |
| Steps | 1. Click on update staff  2.Select the staff-id  3.Click on show staff data  4.Modify staff details  5.click on save changes |
| Expected Output | Valid Input    Invalid Output |

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| --- | --- |
| Testcase-ID | 09 |
| Test Case Title | Delete staff |
| Purpose of testing | To test whether admin can delete the staff or not |
| Test data | Staff-id |
| Steps | 1.Click delete staff  2.Select staff-id  3.Click on show staff details  4.Click on Delete staff. |
| Expected Output | Valid Output |

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| --- | --- |
| Testcase-ID | 10 |
| Test Case Title | View activity |
| Purpose of testing | To Test whether staff can view the activity or not |
| Test data | Activity-id |
| Steps | 1.Click on view activity  2.Enter the activity -id  3.Click on search |
| Expected Output | Valid Output    Invalid output |

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| --- | --- |
| Testcase-ID | 11 |
| Test Case Title | Record attendance |
| Purpose of testing | To test whether the staff can record the attendance of student or not |
| Test data | Activity-id |
| Steps | 1.Click on record attendance  2.Select activity-id.  3.Click on select |
| Expected Output | Valid Output |

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| --- | --- |
| Testcase-ID | 12 |
| Test Case Title | Add student |
| Purpose of testing | To test whether staff can add the student or not |
| Test data | Student-id, student name, class, association-id, attendance |
| Steps | 1.Click on add student  2.Enter the student-id, student name, class, association-id, attendance  3.Click on add student |
| Expected Output | Valid Output    Invalid Output |

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| --- | --- |
| Testcase-ID | 13 |
| Test Case Title | Update student |
| Purpose of testing | To check whether staff can modify the student details or not |
| Test data | Student-id |
| Steps | 1.Click on update student  2.Select student-id  3.click on show student data  4.Modify student details  5.click on save changes |
| Expected Output | Valid Output    Invalid Output |

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| Testcase-ID | 14 |
| Test Case Title | Delete student |
| Purpose of testing | To test whether staff can delete the student or not |
| Test data | Student-id |
| Steps | 1.Click on delete student  2.Select student-id  3.click on show student record  4.click on delete record |
| Expected Output | Valid Output |

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| Testcase-ID | 15 |
| Test Case Title | Add activity |
| Purpose of testing | To test whether staff can add the activity or not |
| Test data | Activity-id, activity name, place, description, date, association-id, image |
| Steps | 1.click on add activity  2.Enter activity-id, activity name, description, date, association-id, image  3.Click on add activity |
| Expected Output | Valid input    Invalid Output |

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| --- | --- |
| Testcase-ID | 16 |
| Test Case Title | Update activity |
| Purpose of testing | To test whether staff can update the activity or not |
| Test data | Activity-id |
| Steps | 1.click on update activity  2.Select activity-id  3.Click on show activity data  4.Modify activity details  5.click on save changes |
| Expected Output | Valid input    Invalid Output |

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| --- | --- |
| Testcase-ID | 17 |
| Test Case Title | Delete activity |
| Purpose of testing | To test whether staff can delete the activity or not |
| Test data | Activity-id |
| Steps | 1.click on delete  2.Select activity-id  3.Click on show details  5.click on delete activity |
| Expected Output | Valid input |

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| --- | --- |
| Testcase-ID | 18 |
| Test Case Title | Edit profile |
| Purpose of testing | To test whether staff can edit his profile or not |
| Test data | Staff-id, name, password, email, contact no, department, association-id |
| Steps | 1.click on edit profile  2.edit the profile  3.Click on save changes  4.Modify activity details  5.click on save changes |
| Expected Output | Valid input    Invalid Output |