Testing

Testing is an execution of system to identify any errors, missing requirement or gap in the contrary to the actual requirements.

Test Cases

Unit Testing

It is a level of software testing where single components of a software are tested. A unit is a smallest testable part of the software. This testing helps to validate that each unit of a software, performs as it is designed.

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| Test Case ID |  |
| Objective |  |
| Precondition |  |
| Action Step |  |
| Expected Output |  |
| Actual Output |  |
| Result |  |

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| --- | --- |
| Test Case ID | 1 |
| Objective | To open the login screen of the application |
| Precondition | User should run the application |
| Action Step | Application was executed |
| Expected Output | Login Screen will open |
| Actual Output | Login Screen successfully opened |
| Result | Success |

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| Test Case ID | 2 |
| Objective | To restrict unauthorized user to login to the system |
| Precondition | User should run the application |
| Action Step | Random email and password was added |
| Expected Output | System should display error |
| Actual Output | Error message was displayed |
| Result | Success |

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| Test Case ID | 3 |
| Objective | To successfully login to the system |
| Precondition | User should add proper validated email and password |
| Action Step | Proper email and password were added |
| Expected Output | User should be directed to the dashboard |
| Actual Output | User was directed to the dashboard |
| Result | Success |

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| Test Case ID | 4 |
| Objective | To display add student form |
| Precondition | User should press ‘Add Student’ |
| Action Step | Add Student was clicked |
| Expected Output | Add Student form should be displayed |
| Actual Output | Add Student form was displayed |
| Result | Success |

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| --- | --- |
| Test Case ID | 5 |
| Objective | To add student from the form |
| Precondition | User should fill the form and click Add student button |
| Action Step | Form was filled out and “Add Student” button was clicked |
| Expected Output | Student’s details should be stored on the database |
| Actual Output | Student’s details were stored in the database |
| Result | Success |

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| --- | --- |
| Test Case ID | 6 |
| Objective | To display student page |
| Precondition | User should click on View Student |
| Action Step | “View Student” was clicked |
| Expected Output | View Student page should be displayed |
| Actual Output | View Student page was displayed |
| Result | Success |

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| --- | --- |
| Test Case ID | 7 |
| Objective | To display Student details on View Student |
| Precondition | User should have already added the details of student |
| Action Step | “View Student” was clicked |
| Expected Output | Student details should be displayed |
| Actual Output | Student details was displayed |
| Result | Success |

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| --- | --- |
| Test Case ID | 8 |
| Objective | To update student details |
| Precondition | User should have already added the details of student |
| Action Step | “Update Student” should be clicked |
| Expected Output | The details of student should be updated |
| Actual Output | The details of student were displayed |
| Result | Success |

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| Test Case ID | 9 |
| Objective | To delete student |
| Precondition | User should have been already added |
| Action Step | “Delete Student” link should be clicked |
| Expected Output | Student should be deleted |
| Actual Output | Student was deleted |
| Result | Success |

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| --- | --- |
| Test Case ID | 10 |
| Objective | To enroll student in University |
| Precondition | Student should be added already |
| Action Step | “Enroll Student” should be clicked |
| Expected Output | Student should be enrolled in University |
| Actual Output | Student was enrolled in the university and details were stored in the database |
| Result | Success |

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| Test Case ID | 11 |
| Objective | To add Class |
| Precondition | User should login the system |
| Action Step | Add Class was clicked |
| Expected Output | “Add Class” form should be opened and user should be able to add details of class |
| Actual Output | Form was opened and class details were added |
| Result | Success |

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| --- | --- |
| Test Case ID | 12 |
| Objective | To add student on class |
| Precondition | Class should have been added |
| Action Step | Add Student on class was clicked |
| Expected Output | Details of student should be stored on class and student should be added on class |
| Actual Output | Student was added on class |
| Result | Success |

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| --- | --- |
| Test Case ID | 13 |
| Objective | To take attendance of student on class |
| Precondition | Student should have already been added to class |
| Action Step | “Attendance” on class was clicked |
| Expected Output | Student details should be displayed and either “Present”, “Absent” or “Late” should be stored |
| Actual Output | “Present”, “Absent” or “Late” was stored |
| Result | Success |

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| Test Case ID | 14 |
| Objective | To view attendance record of a student |
| Precondition | Attendance details should have been already added |
| Action Step | “View Attendance” on class was clicked |
| Expected Output | Attendance details of a student should be displayed |
| Actual Output | Attendance details were displayed |
| Result | Success |

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| --- | --- |
| Test Case ID | 15 |
| Objective | To add routine of a class |
| Precondition | Class should have been already added |
| Action Step | “Add Routine” on class was clicked |
| Expected Output | Form should be opened and when filled out the details should be stored |
| Actual Output | Routine of a class was stored |
| Result | Success |

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| --- | --- |
| Test Case ID | 16 |
| Objective | To view routine of a class |
| Precondition | Class and Routine should have been already added |
| Action Step | “View Routine” on class was clicked |
| Expected Output | Routine of a particular class should be displayed |
| Actual Output | Routine of a particular class was displayed |
| Result | Success |

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| Test Case ID | 17 |
| Objective | To add exam |
| Precondition | User should login to the system |
| Action Step | Add Exam should be clicked |
| Expected Output | Exam details should be stored and able to display |
| Actual Output | Exam details were displayed and stored |
| Result | Success |

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| Test Case ID | 18 |
| Objective | To add exam |
| Precondition | User should login to the system |
| Action Step | Add Exam should be clicked |
| Expected Output | Exam details should be stored and able to display |
| Actual Output | Exam details were displayed and stored |
| Result | Success |

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| Test Case ID | 19 |
| Objective | To add question paper |
| Precondition | User should login to the system |
| Action Step | Add Question Paper should be clicked |
| Expected Output | Question Paper details should be stored and able to display |
| Actual Output | Question Paper details were displayed and stored |
| Result | Success |

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| --- | --- |
| Test Case ID | 20 |
| Objective | To add online exam |
| Precondition | User should login to the system |
| Action Step | Add Online Exam should be clicked |
| Expected Output | Online Exam details should be stored and able to display |
| Actual Output | Online details were displayed and stored |
| Result | Success |

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| Test Case ID | 21 |
| Objective | To attend online exam |
| Precondition | User should login to the system as a student |
| Action Step | Attend Online Exam should be clicked |
| Expected Output | Online Exam form should be displayed |
| Actual Output | Online Exam form was displayed |
| Result | Success |

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| Test Case ID | 22 |
| Objective | To view result of online exam |
| Precondition | Student should complete the exam |
| Action Step | “Finish” button should be clicked |
| Expected Output | Result should be displayed |
| Actual Output | Result was displayed |
| Result | Success |

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| Test Case ID | 23 |
| Objective | To upload question by teacher |
| Precondition | Teacher should login to the system |
| Action Step | Upload Question should be clicked |
| Expected Output | Question should be uploaded |
| Actual Output | Question was uploaded |
| Result | Success |

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| Test Case ID | 24 |
| Objective | To upload assignment by Student |
| Precondition | Student should login to the system |
| Action Step | Upload Assignment should be clicked |
| Expected Output | Question should be uploaded |
| Actual Output | Question was uploaded |
| Result | Success |

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| Test Case ID | 25 |
| Objective | To download question by Student |
| Precondition | Student should login to the system |
| Action Step | Download Question should be clicked |
| Expected Output | Question should be downloaded |
| Actual Output | Question was downloaded |
| Result | Success |

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| --- | --- |
| Test Case ID | 26 |
| Objective | To download assignment by Teacher |
| Precondition | Teacher should login to the system |
| Action Step | Download Assignment should be clicked |
| Expected Output | Assignment should be downloaded |
| Actual Output | Assignment was downloaded |
| Result | Success |

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| Test Case ID | 27 |
| Objective | To add exam marks |
| Precondition | User should login to the system |
| Action Step | Add Exam Marks should be clicked |
| Expected Output | Exam Marks details should be stored and able to displayed |
| Actual Output | Exam Marks details were displayed and stored |
| Result | Success |

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| --- | --- |
| Test Case ID | 28 |
| Objective | To View exam marks |
| Precondition | User should login to the system |
| Action Step | View Exam Marks should be clicked |
| Expected Output | Exam Marks should be displayed |
| Actual Output | Exam Marks were displayed |
| Result | Success |