



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

FALL 22-23

Section: F

Software Quality Assurance and Testing

STUDENT MANAGEMENT SYSTEM

A Report submitted

By

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Software Test Plan
for
Student Management System

Version 1.0 approved

Prepared by,

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25th December, 2022

Checked By Industry Personnel

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Sign:

Date:

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Revision History

Revision	Date	Updated by	Update Comments
0.1	2022.12.20	Md. Rabbi Islam Sajid	First Draft
0.2	2022.12.21	Tamimul Alam	Second Draft
0.3	2022.12.22	Asif Zaman	Third Draft
0.4	2022.12.23	Mehedi Hasan Shojib	Fourth Draft
0.5	2022.12.24	Tamimul Alam	Fifth Draft
0.6	2022.12.25	Md. Rabbi Islam Sajid	Sixth Draft

1. TEST PLAN IDENTIFIER:RS-MTP01.3

2. REFERENCES

- <https://www.eskooly.com/>
- Software Engineering Course Slide
- Software Quality and Testing Course Slides
- Selenium Testing Files Provided by Course Teacher

3. INTRODUCTION

Background to the Problem

1) Student management is becoming a fundamental requirement in education in the present era, and it automates every daily task carried out in the school, college, and university. This technology allows us to swiftly gather all the data required for management. The primary goal is to develop software that will manage these many modules. What is the root cause of this problem? why is this problem is so important to consider?

2) Eskooly is the company we've chosen. The system can dynamically manage and save student, faculty, and teacher information. The suggested strategy provides the most straightforward method for managing all facets of student and university management. The program enables exploration of all internal activities that students are unaware of taking place at the school, college, or institution.

Solution to the Problem

The activities of students and teachers are provided by our system. With the use of this system, users may handle things like student information, grade data, registration, class schedules, notes, and payments. We are making sure that student data is secure. Our main offerings include

- 1) Result and Academic Transcript
- 2) Accounts
- 3) Online Admission
- 4) Messaging System
- 5) Students/Parents Login
- 6) Student Manager

3) We have a strong desire to offer first-rate service. Since ensuring customer satisfaction is our top priority, we also provide our training, operational management, professional skill, and recruitment divisions special attention.

Since ensuring customer satisfaction is our top priority, we also provide our training, operational management, professional skill, and recruitment divisions special attention.

4) Information on students, instructors, and teachers can be stored and managed by our business, eSkooly. Arena Phone Bd Ltd produced the cloud-based eSkooly application. It features SMS service and mobile apps. The use of eSkooly is free for educational institutions. It allows staff members to efficiently complete their regular duties and keep an eye on a variety of other institutional operations. In addition, parents are updated on their children's growth.

4. REQUIREMENT SPECIFICATION

4.1 System Features

1. Software Features

Functional Requirements

1.1 The user login into the software with their username and password.

1.2 If the login successful the main home page in this software will be displayed.

1.3 If the user forgets the username and password so they can be reset password using their valid email address and phone number.

1.4 If the user input 3 times wrong password, the system will block the user account login for half one hour.

Priority level: High

Precondition: User have valid username and password.

Cross-references: None

2. Admin

Functional Requirements

- 2.1 Monitoring user information by maintaining accurate database of all ID.
- 2.2 If the user is valid based on his/her information then “activate” card otherwise “reject” and report to the user.
- 2.3 Admin will able to see the payment status. If paid then allow to request otherwise report to the user for payment. After reporting 2 times if user doesn't pay then admin can deactivate the user ID.

Priority level: High

Precondition: Admin must have the rights to access the whole system.

Cross-references: 1.1, 1.2, 3.1

3. Accounts

Functional Requirements

- 3.1 The payment transaction will be done using user ID.
- 3.2 The payment slip can be gotten from the account department using ID.
- 3.3 Then the payment information will show in the portal.

Priority level: High

Precondition: Payment system must be pay using user ID.

Cross-references: 2.1, 2.2, 2.3

4. Search

Functional Requirements

- 5.1 User can search for what service he/she expecting.
- 5.2 System gives user review of their expecting service.

5.3 User can also search for the information (Admission, Cost and Other details).

Priority level: Medium

Precondition: Must be in logged in condition

Cross-references: 5.1, 6.2

4.2 System Quality Attributes

There are some quality attributes that are very important to ensure the quality of a software.

Usability: Any skilled user should be able to register and login to the system.

Efficiency: Each and every functional need must be fulfilled.

Portability: This will be capable of running properly on all the devices.

Maintainability: If any issue locates or detect in the system then it will be possible to fix it.

Correctness: Mentioned all features will be completed according to the preferences of the patients.

Functionality: Will display available slot list, their details and it will also show if they are parking or not.

Accessibility: It's a web-based software so it will be accessible from anywhere on the Internet.

Readability: It's critical to rely on appointment software to properly and containing accurate scheduling demands. It is so important to check to see if the system is durable enough to sustain any situation. So, regular counting on parking slot.

Reliability: All features will perform in various working environments or devices. o

Flexibility: Will flexible enough to modify in terms of any needs.

Integrity/Security: System integrity or security should be sufficient to prevent unauthorized access to system functions, information loss, and virus infection of software, as well as to protect the privacy of data entered into the system. Actually, Integrity comes with security

5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these

- areas will be indirect as a result of other testing efforts. For example:
- How to perform our application under low network that will not be tested.
- External functionality over the program is not supported by this system. As a result,
- application to server testing should be avoided.
- Browser compatibility

6. TESTING APPROACH

6.1 Testing Levels

UNIT Test: The fundamental level of testing is the unit test. After creating each feature, a developer will verify that it functions as intended inside the component design. Because they are the ones who understand how these specific features functioned and because they are familiar with internal logic, program structure, etc., developers will perform this testing. In our application, the developer will conduct UNIT testing, and the development team leader will provide their approval. Before unit testing is accepted and handed off to the tester, the programmer must show the team leader proof of it (test case list, sample output, data printouts, defect information). The test person will also receive access to all unit test data.

Integration Test: The second level of testing is integration testing. the present level. The modules or features will be linked together one at a time. The leader of our development team will oversee this testing and determine whether or not the data transmission between these modules is accurate. At this level, we'll use strategies like the sandwich strategy, big bang approach, bottom-up integration, and top-down integration.

System Test: Our quality assurance team will carry out this testing level once the unit test and integration test have been completed. Our quality team will check the complete system against the customer's specification once our full program has been developed. These testing methods are known as black boxes. Various testing methods will have been used at this testing level. In addition to performing functional testing, our testing team also performs nonfunctional testing such as volume, load, and performance testing.

Acceptance Test: We will move on to the acceptance testing level once our entire application has been completed and the first three levels have been tested. At this stage, the test team leader will work with the end user to evaluate our product. In essence, we will check the software's usability and functionality. We will ensure that our system satisfies all user requirements after this testing phase.

6.2 Test Tools

The ‘Selenium IDE’ – testing tool has been used to build test cases and test our website.

Selenium IDE has been used because it supports automated testing. We will perform manual testing initially, and then we will perform automation testing. The most crucial tool for automation testing is Selenium. Selenium is an open-source, free framework for assessing web applications across a variety of platforms and browsers. Scripts for Selenium tests can be written in a variety of programming languages, including Java, C#, Python, and others. However, we'll be automating our testing using Java. Below are a few screenshots of selenium.

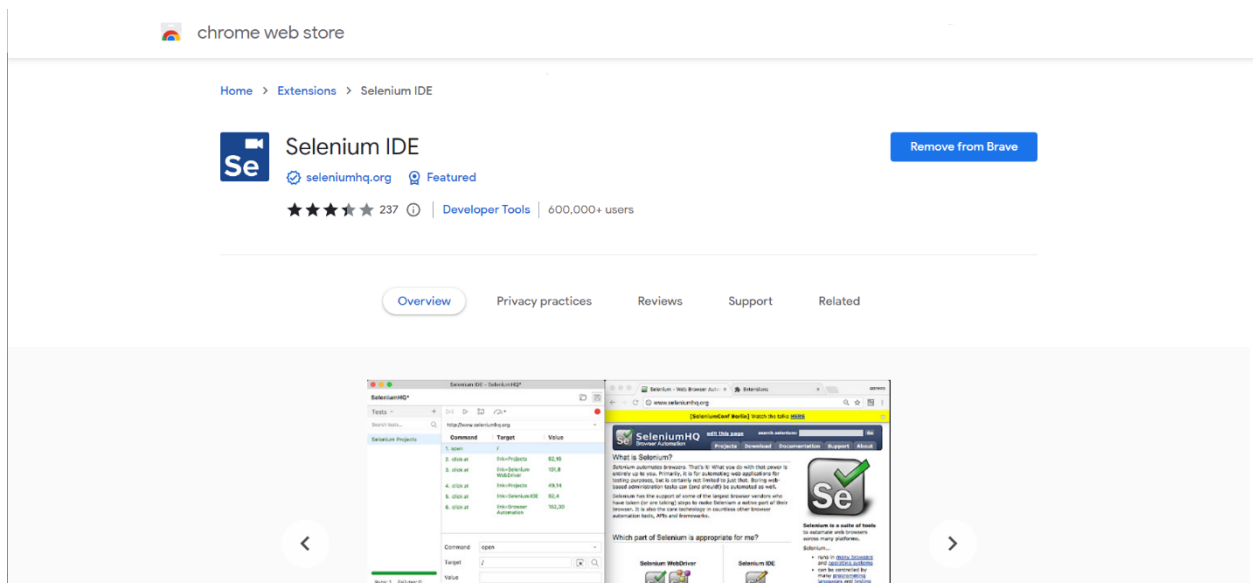


Fig-1

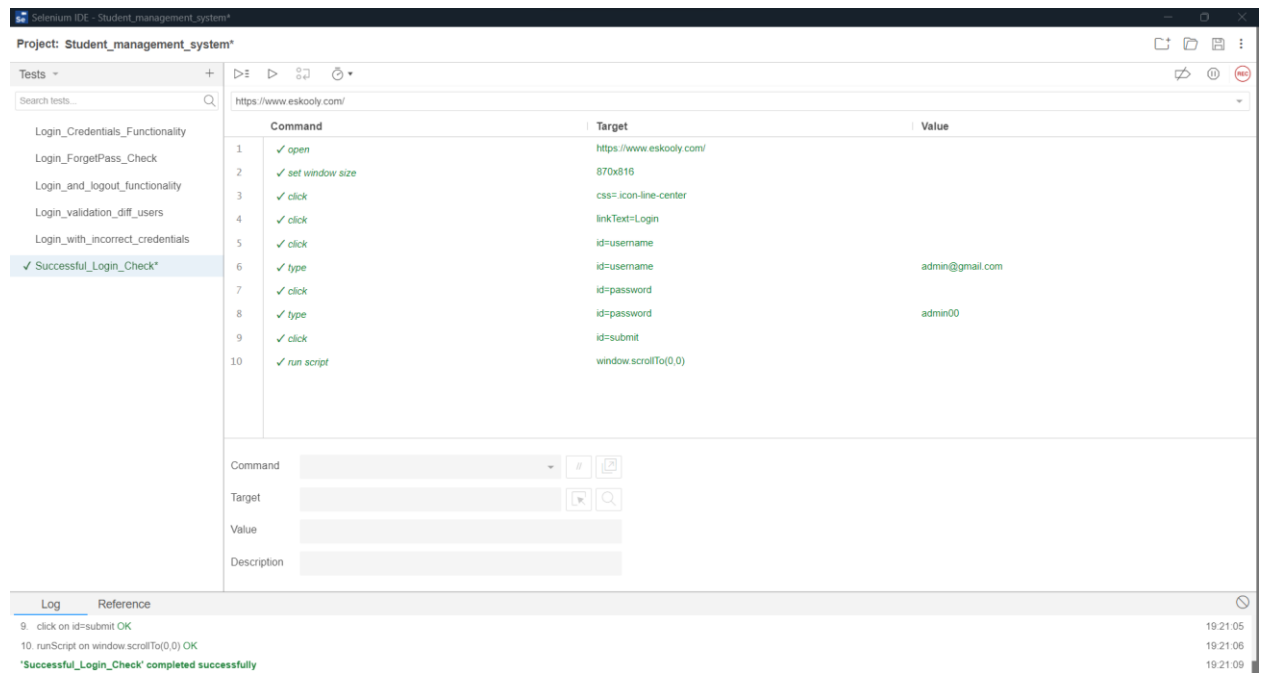


Fig-2

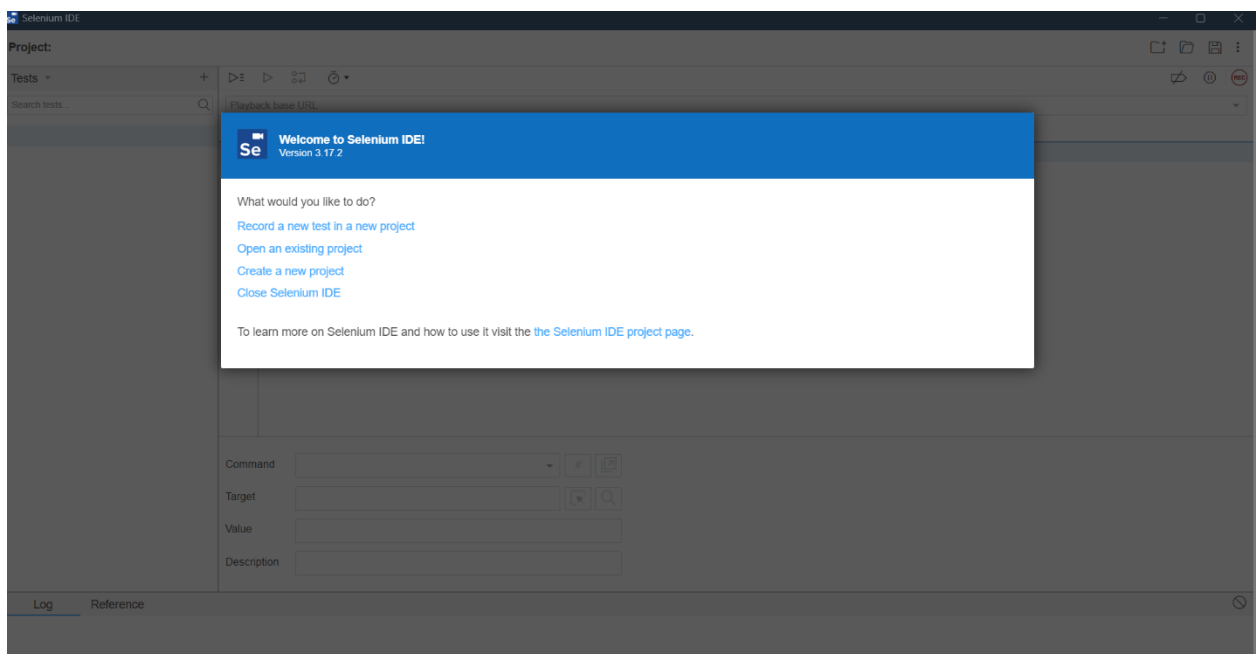


Fig-3

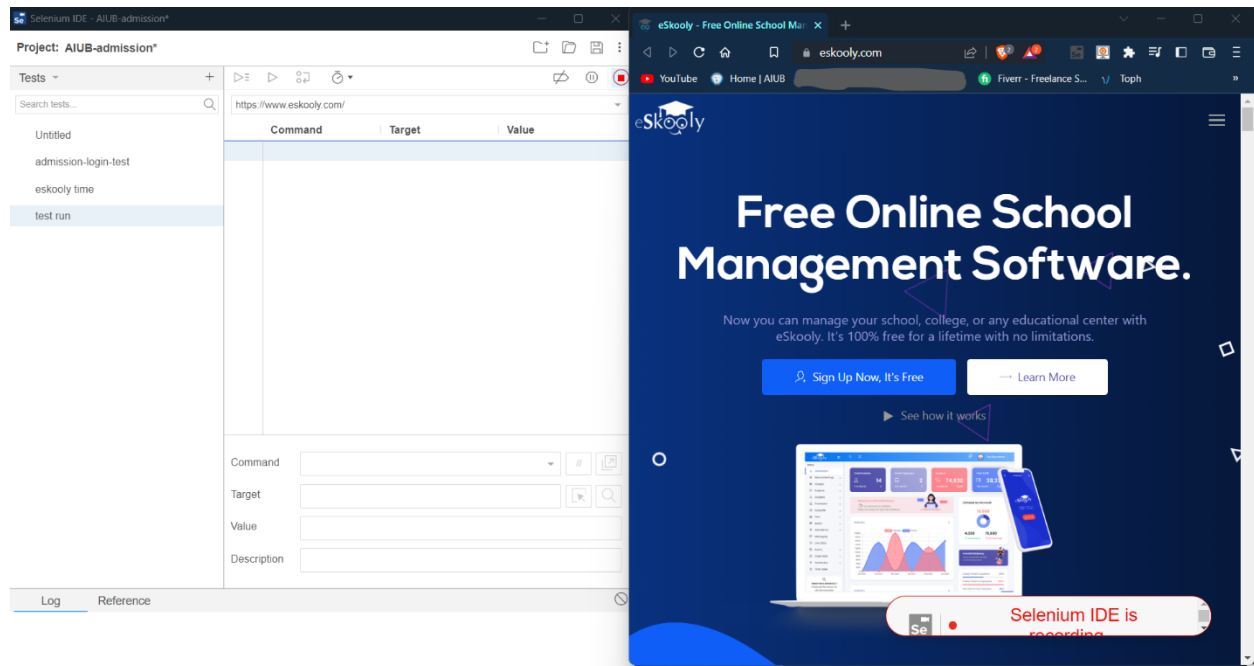


Fig-4

6.3 Meetings

The quality assurance team leader will schedule a meeting each week to evaluate the testing process of the website. As quickly as feasible, problems and bugs will be found by performing code reviews and code walk throughs, testing on a regular basis. Our project manager will consult with every tester once every week. To discuss the state of our project with the leader of our quality assurance team. All of our employees who are working on the project will take part in the inspection section once every two weeks.

7. TEST CASES/TEST ITEMS

Project Name: Student Management System		Test Designed by: Tamimul Alam		
Test Case ID: FR_1		Test Designed date: 23/12/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Tamimul Alam		
Module Name: Registration Session		Test Execution date: 24/12/2022		
Test Title: Successful Registration Check				
Description: Test website’s Registration Page and storing username and password to the database.				
Precondition (If any): Must land on sign up page from website homepage successfully.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Click on signup 3. Enter E-mail 4. Enter password 5. Enter_Confirm password 6. Accept terms and condition button 7. Click signup button	E-mail: tamim@gmail.com Password: 56565656 Confirm Password: 56565656	User should register successfully to the website	As expected,	Pass
Post Condition: User is registered with database and can be log in later.				

Project Name: Student Management System		Test Designed by: Tamimul Alam		
Test Case ID: FR_2		Test Designed date: 23/12/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Tamimul Alam		
Module Name: Registration input field validation		Test Execution date: 24/12/2022		
Test Title: Registration Field Validation Check				
Description: Test website's Registration Field				
Precondition (If any): Must land on sign up page.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website's signup page 2. Skip E-mail's field 3. Enter password 4. Enter confirm password 5. Accept terms and condition button 6. Click signup button 7. Clear the confirm password input field 8. Enter Confirm password 9. Enter E-mail 10. Didn't click terms and condition button 11. Click signup button	E-mail: aiub@gmail.com Password: 23232323 Confirm Password: 23232323	User should not register successfully to the website and must show a message	Result not as expected,	Fail
Post Condition: User isn't registered with database and can't be log in later.				

Project Name: Student Management System		Test Designed by: Tamimul Alam		
Test Case ID: FR_3		Test Designed date: 23/12/2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Tamimul Alam		
Module Name: Registration input field functionality 1.0		Test Execution date: 24/12/2022		
Test Title: Registration’s E-mail Pattern Validation Checking				
Description: Testing username field functionality as an e-mail’s pattern validation				
Precondition (If any): Must land on sign up page.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website’s signup page 2. Enter E-mail 3. Enter password 4. Enter confirm password 5. Accept terms and condition button 6. Click signup button	E-mail: sqtgmail Password: tamim Confirm Password: tamim	User should not register successfully to the website	Result not as expected,	Fail
Post Condition: User can’t be registered.				

Project Name: Student Management System		Test Designed by: Tamimul Alam		
Test Case ID: FR_4		Test Designed date: 23/12/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Tamimul Alam		
Module Name: Registration input field functionality 1.1		Test Execution date: 24/12/2022		
Test Title: signup password/confirm password input field validation				
Description: Testing password/confirm password field in signup page				
Precondition (If any): Must land on sign up page.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website's signup page 2. Enter E-mail 3. Enter password 4. Enter confirm password 5. Accept terms and condition button 6. Click signup button	E-mail: alamin@gmail.com Password: 25698 Confirm Password: 25478	User should not register successfully to the website	Result not as expected,	Fail
Post Condition: User isn't registered with database and can't be log in later.				

Project Name: Student Management System			Test Designed by: Tamimul Alam	
Test Case ID: FR_5			Test Designed date: 23/12/2022	
Test Priority (Low, Medium, High): Medium			Test Executed by: Tamimul Alam	
Module Name: Registration UI/UX check session			Test Execution date: 25/12/2022	
Test Title: Signup page’s button check				
Description: Testing Signup page’s all button				
Precondition (If any): Must land on sign up page.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website’s signup page 2. Click on sign up button 3. Click on Terms & Conditions button 4. Click on login button 5. Back to sign up page by clicking (I do not have an account yet) 6. Click on eSkooly logo	N/A	All the buttons should work properly	As expected,	Pass
Post Condition: User can easily land any page from signup page by clicking signup page’s buttons.				

Project Name: Student Management System		Test Designed by: Tamimul Alam		
Test Case ID: FR_6		Test Designed date: 23/12/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Tamimul Alam		
Module Name: Registration input field functionality 1.2		Test Execution date: 25/12/2022		
Test Title: Registration’s existing e-mail validation Checking				
Description: Testing email field functionality as existing e-mail’s validation				
Precondition (If any): Must land on sign up page and at least one email should be registered in the database				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website’s signup page 2. Enter an existing e-mail	E-mail: tamim@gmail.com	User should not register successfully to the website	As expected,	Pass
Post Condition: Must show a warning message.				

Project Name: Student Management System		Test Designed by: Tamimul Alam		
Test Case ID: FR_7		Test Designed date: 23/12/2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Tamimul Alam		
Module Name: Registration session		Test Execution date: 25/12/2022		
Test Title: Employee’s account registration				
Description: Testing a successful registration of Employee’s account and storing username and password to the database.				
Precondition (If any): Must land on login page and have an admin’s account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Enter admin username 4. Enter admin password 5. Click submit 6. Click on employee 7. Add new 8. Enter name of employee 9. Enter mobile number 10. Enter joining date 11. Enter salary 12. Enter father’s name 13. Enter CNIC 14. Enter education qualification 15. Enter gender 16. Enter religion 17. Enter Employee’s email 18. Enter blood group 19. Enter previous job experience 20. Enter Date of birth 21. Address 22. Click on submit	E-mail: tamim@gmail.com Password: 56565656 Employee’s name: Prottoy Rahman Number: 01711111111 Joining date: 2002-12-14 Salary: 25000 Father’s name: Tamim Rahman Gender: Male CNIC: 2500 Employees’ email: Example1@gmail.com Education: BSc Blood group: A+ Date of birth: 2022-12-06 Address: West Kazipara	Admis should register employees’ account successfully to the website	As expected,	Pass
Post Condition: Employee’s account is registered with database and can be log in later using provided username and password				

Project Name: Student Management System		Test Designed by: Md. Rabbi Islam Sajid		
Test Case ID: FR_8		Test Designed date: 23-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Rabbi Islam Sajid		
Module Name: Login Session Admin		Test Execution date: 24-12-22		
Test Title: Successful Login Check				
Description: Test website login page for user- Admin				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Enter admin username 4. Enter admin password 5. Click submit	Username: admin@gmail.com Password: admin00	User should login into the application	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

Project Name: Student Management System		Test Designed by: Md. Rabbi Islam Sajid		
Test Case ID: FR_9		Test Designed date: 23-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Rabbi Islam Sajid		
Module Name: Login Validation 1.0		Test Execution date: 24-12-22		
Test Title: Login with Incorrect Credentials				
Description: Checking for log into admin account with incorrect username and password				
Precondition (If any): Must be on the Login page. Username and password must be registered in the database before checking				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Enter incorrect admin username 4. Enter incorrect admin password 5. Click submit	Username: rabbi1234@yahoo.com Password: 789456123	User shouldn't be log in to different accounts	As expected,	Pass
Post Condition: Must be shown Incorrect username and password after login				

Project Name: Student Management System		Test Designed by: Md. Rabbi Islam Sajid		
Test Case ID: FR_10		Test Designed date: 23-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Rabbi Islam Sajid		
Module Name: Login Validation 1.1		Test Execution date: 24-12-22		
Test Title: Login Validation Different Users				
Description: Checking for log into different users with same username and password				
Precondition (If any): Username and password must be registered in the database before checking				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Enter admin username into employee username 4. Enter admin password into employee password 5. Click submit	Username: admin@gmail.com Password: admin00	User shouldn't be log in to employee accounts	As expected,	Pass
Post Condition: User must have different username and password for log into different accounts.				

Project Name: Student Management System		Test Designed by: Md. Rabbi Islam Sajid		
Test Case ID: FR_11		Test Designed date: 23-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Rabbi Islam Sajid		
Module Name: Login and Logout Session		Test Execution date: 24-12-22		
Test Title: Login and Logout Functionality				
Description: Checking the login and logout functionality working successfully				
Precondition (If any): Must be on the Login page. Username and password must be correct.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Enter correct username 4. Enter correct password 5. Click submit 6. Click logout	Username: teacher@yahoo.com Password: teacher1	User should be able login and logout successfully	As expected,	Pass
Post Condition: Same as precondition				

Project Name: Student Management System		Test Designed by: Md. Rabbi Islam Sajid		
Test Case ID: FR_12		Test Designed date: 23-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Md. Rabbi Islam Sajid		
Module Name: Login Functionality Session		Test Execution date: 24-12-22		
Test Title: Login Credential Functionality				
Description: Checking the credentials functionalities working properly or not				
Precondition (If any): Must be on the Login page. Username and password should be incorrect format				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Enter incorrect username format 4. Enter incorrect password format 5. Click submit	Username: student@yahoo Password: 123	User shouldn't be able to login	Not as expected	Fail
Post Condition: Must give warning while giving incorrect information's				

Project Name: Student Management System		Test Designed by: Md. Rabbi Islam Sajid		
Test Case ID: FR_13		Test Designed date: 23-12-22		
Test Priority (Low, Medium, High): Medium		Test Executed by: Md. Rabbi Islam Sajid		
Module Name: Login Feature Session		Test Execution date: 24-12-22		
Test Title: Login Forgot Password Feature Checking				
Description: Checking forgot password option working properly or not				
Precondition (If any): Must be on the Login page. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Go to login page 3. Click forgot password 4. Enter correct username 5. Click reset password	Username: admin@gmail.com	User should be able to reset password and get login info in email	As expected,	Pass
Post Condition: User should get login information's via email				

Project Name: Student Management System		Test Designed by: Asif Zaman		
Test Case ID: FR_14		Test Designed date: 20-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Asif Zaman		
Module Name: Employee addition feature		Test Execution date: 25-12-22		
Test Title: Add employee with valid input				
Description: Checking the addition of a new employee by providing the valid information in both required and optional section of the employee form				
Precondition (If any): Must be landed on the dashboard page. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Land to the dashboard section</div> <div>2. Go to Employees in menu bar</div> <div>3. Click on All Employees</div> <div>4. Click Add new button</div> <div>5. Enter employee name</div> <div>6. Enter mobile no</div> <div>7. Enter joining date</div> <div>8. Enter employee-type</div> <div>9. Enter monthly salary</div> <div>10. Enter father name</div> <div>11. Enter CNIC</div> <div>12. Enter education</div> <div>13. Enter gender</div> <div>14. Enter religion</div> <div>15. Enter blood group</div> <div>16. Enter experience</div> <div>17. Enter email</div> <div>18. Enter date of birth</div> <div>19. Enter address</div> <div>20. Click on submit</div>	<div>Name: Sajid</div> <div>Mob no: 01824500704</div> <div>Joining-date:1998-02-26</div> <div>Employee-type: Teacher</div> <div>Monthly-salary:10000</div> <div>Father-name: Rahim</div> <div>CNIC:3123</div> <div>Education: AIUB</div> <div>Gender: Male</div> <div>Religion: Islam</div> <div>Blood group: A+</div> <div>Experience: Teaching</div> <div>Email:sajid@gmail.com</div> <div>Date of birth:2022-12-1</div> <div>Address:Uttara Bangladesh</div>	User must be registered as an employee	As expected,	Pass
Post Condition: The registered user got a new role as an employee in the website. The data must be stored into the database				

Project Name: Student Management System			Test Designed by: Asif Zaman	
Test Case ID: FR_15			Test Designed date: 20-12-22	
Test Priority (Low, Medium, High): High			Test Executed by: Asif Zaman	
Module Name: Employee form validation 1.0			Test Execution date: 25-12-22	
Test Title: Add employee with invalid input				
Description: Checking the addition of a new employee by providing the invalid information in required section of the employee form				
Precondition (If any): Must be landed on the employee form page during the addition of the new employee. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Land to the dashboard section 2. Go to Employees in menu bar 3. Click on All Employees 4. Click Add new button 5. Enter employee name 6. Enter mobile no 7. Enter joining date 8. Enter employee-type 9. Enter monthly salary 10. Click on submit	Name: 1234 Mob no: 01644412678 Joining-date:2022-12-1 Employee-type: other Monthly-salary: -9000 Father-name:Null CNIC: Null Education: Null Gender: Null Religion: Null Blood group: Null Experience: Null Email: Null Date of birth: Null Address: Null	Employee should not able to be registered.	Not as expected,	Fail
Post Condition: The registered user will not able to add as an employee. A warning must be showed for the invalid name and the invalid salary				

Project Name: Student Management System		Test Designed by: Asif Zaman		
Test Case ID: FR_16		Test Designed date: 20-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Asif Zaman		
Module Name: Employee form validation 1.1		Test Execution date: 25-12-22		
Test Title: Add employee with invalid mobile no				
Description: Checking the addition of a new employee by providing the invalid mobile no in the required section of the employee form				
Precondition (If any): Must be landed on the employee form page during the addition of the new employee. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Land to the dashboard section</div> <div>2. Go to Employees in menu bar</div> <div>3. Click on All Employees</div> <div>4. Click Add new button</div> <div>5. Enter employee name</div> <div>6. Enter mobile no</div> <div>7. Enter joining date</div> <div>8. Enter employee-type</div> <div>9. Enter monthly salary</div> <div>10. Click on submit</div>	<div>Name: Invalid phone, String number</div> <div>Mob-no:Null, String_)(*^&^^%</div> <div>Joining-date: 2022-12-1, 2022-12-1</div> <div>Employee-type:Store manager, Other</div> <div>Monthly-salary: 3000,2000</div> <div>Father-name: Null</div> <div>CNIC: Null</div> <div>Education: Null</div> <div>Gender: Null</div> <div>Religion: Null</div> <div>Blood group: Null</div> <div>Experience: Null</div> <div>Email: Null</div> <div>Date of birth: Null</div> <div>Address: Null</div>	Employee should not able to be registered.	Not as expected,	Fail
Post Condition: The registered user will not able to add as an employee and not add the information to the database. A warning need to be showed for the null input in the required section and the invalid string input as the mobile number.				

Project Name: Student Management System		Test Designed by: Asif Zaman		
Test Case ID: FR_17		Test Designed date: 20-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Asif Zaman		
Module Name: Employee form validation 1.2		Test Execution date: 25-12-22		
Test Title: Add employee without other required input				
Description: Checking the addition of a new employee without providing the inputs in the required section of the employee form				
Precondition (If any): Must be landed on the employee form page during the addition of the new employee. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Land to the dashboard section 2. Go to Employees in menu bar 3. Click on All Employees 4. Click Add new button 5. Land on the employee form section 6. Enter mobile number 7. Enter employee name, employee type and salary keeping joining date empty 8. Enter joining date, employee type and salary keeping employee name empty 9. Enter employee name, joining date, and salary keeping employee type empty 10. Enter employee name, joining date, employee type keeping salary empty 11. Click on submit	Name: test_req, Null Mob-no: 01824500704 Joining-date:Null, 2022-12-1 Employee type: Other, Null Monthly-salary: 1000,Null Father-name: Null CNIC: Null Education: Null Gender: Null Religion: Null Blood group: Null Experience: Null Email: Null Date of birth: Null Address: Null	Employee should not able to be registered.	As expected,	Pass
Post Condition: The blank textboxes in required information must show the warning and new employee is not registered or not added to the database.				

Project Name: Student Management System		Test Designed by: Asif Zaman		
Test Case ID: FR_18		Test Designed date: 22-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Asif Zaman		
Module Name: Employee form validation 1.3		Test Execution date: 25-12-22		
Test Title: Add employee with null optional input				
Description: Checking the addition of a new employee without providing the inputs in the optional section of the employee form				
Precondition (If any): Must be landed on the employee form page during the addition of the new employee and must provide the valid information in the required section. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Land to the dashboard section</div> <div>2. Go to Employees in menu bar</div> <div>3. Click on All Employees</div> <div>4. Click Add new button</div> <div>5. Enter employee name</div> <div>6. Enter mobile no</div> <div>7. Enter joining date</div> <div>8. Enter employee-type</div> <div>9. Enter monthly salary</div> <div>10. Click on submit</div>	<div>Name:Null option check</div> <div>Mob-no: 01824500704</div> <div>Joining-date:2022-12-15</div> <div>Employee type: Other</div> <div>Monthly-salary: 1000</div> <div>Father-name: Null</div> <div>CNIC: Null</div> <div>Education: Null</div> <div>Gender: Null</div> <div>Religion: Null</div> <div>Blood group: Null</div> <div>Experience: Null</div> <div>Email: Null</div> <div>Date of birth: Null</div> <div>Address: Null</div>	Employee can able to be registered.	As expected,	Pass
Post Condition: Employee is registered based on the required information and store the information to the database.				

Project Name: Student Management System			Test Designed by: Asif Zaman	
Test Case ID: FR_19			Test Designed date: 22-12-22	
Test Priority (Low, Medium, High): Medium			Test Executed by: Asif Zaman	
Module Name: Employee form validation 1.4			Test Execution date: 25-12-22	
Test Title: Add employee with invalid optional input				
Description: Checking the addition of a new employee providing the invalid inputs in the optional section of the employee form				
Precondition (If any): Must be landed on the employee form page during the addition of the new employee and must provide the valid information in the required section. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Land to the dashboard section</div> <div>2. Go to Employees in menu bar</div> <div>3. Click on All Employees</div> <div>4. Click Add new button</div> <div>5. Enter employee name</div> <div>6. Enter mobile no</div> <div>7. Enter joining date</div> <div>8. Enter employee-type</div> <div>9. Enter monthly salary</div> <div>10. Enter father name</div> <div>11. Enter education</div> <div>12. Click on submit</div>	<div>Name: Invalid mail</div> <div>Mob-no:01644412678</div> <div>Joining-date:2022-12-16</div> <div>Employee type: Other</div> <div>Monthly-salary: 1000</div> <div>Father-name: 1234</div> <div>CNIC: Null</div> <div>Education: 1234</div> <div>Gender: Null</div> <div>Religion: Null</div> <div>Blood group: Null</div> <div>Experience: Null</div> <div>Email: Null</div> <div>Date of birth: Null</div> <div>Address: Null</div>	Employee cannot able to be registered.	Not as expected,	Fail
Post Condition: The invalid data in the textbox must show warning and the user should not be registered as an employee when the submit button is clicked. The information must not store into the database as well.				

Project Name: Student Management System		Test Designed by: Asif Zaman		
Test Case ID: FR_20		Test Designed date: 22-12-22		
Test Priority (Low, Medium, High): Medium		Test Executed by: Asif Zaman		
Module Name: Employee form validation 1.5		Test Execution date: 25-12-22		
Test Title: Add employee with invalid optional email				
Description: Checking the addition of a new employee providing the invalid email in the optional section of the employee form.				
Precondition (If any): Must be landed on the employee form page during the addition of the new employee and must provide the valid information in the required section. Username must be registered to database.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Land to the dashboard section</div> <div>2. Go to Employees in menu bar</div> <div>3. Click on All Employees</div> <div>4. Click Add new button</div> <div>5. Enter employee name</div> <div>6. Enter mobile no</div> <div>7. Enter joining date</div> <div>8. Enter employee-type</div> <div>9. Enter monthly salary</div> <div>10. Enter email</div> <div>11. Click on submit</div>	<div>Name:Invalid mail</div> <div>Mob-no:01644412678</div> <div>Joining-date:2022-12-16</div> <div>Employee type: Other</div> <div>Monthly-salary: 1000</div> <div>Father-name: Null</div> <div>CNIC: Null</div> <div>Education: Null</div> <div>Gender: Null</div> <div>Religion: Null</div> <div>Blood group: Null</div> <div>Experience: Null</div> <div>Email: asif_gmail.com</div> <div>Date of birth: Null</div> <div>Address: Null</div>	Employee cannot able to be registered.	As expected,	Pass
Post Condition: The invalid email in the textbox showed warning and the user is not registered as an employee when the submit button is clicked. The information must not store into the database as well.				

Project Name: Student Management System		Test Designed by: Asif Zaman		
Test Case ID: FR_21		Test Designed date: 22-12-22		
Test Priority (Low, Medium, High): High		Test Executed by: Asif Zaman		
Module Name: Employee edit and delete feature		Test Execution date: 25-12-22		
Test Title: Employee edit and delete check				
Description: Checking the deletion of an existing employee and editing the internal data of an employee				
Precondition (If any): User must be an existing employee and the data must be in the database for the deletion and the edit operation.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<div>1. Land to the dashboard section</div> <div>2. Go to Employees in menu bar</div> <div>3. Click on All Employees</div> <div>4. Click the edit button</div> <div>5. Enter employee name</div> <div>6. Click on update</div> <div>7. Enter email address</div> <div>8. Click on update</div> <div>9. Click the bin/delete button to delete an existing employee.</div>	<div>Name:Rahman</div> <div>Mob-no:Null</div> <div>Joining-date:Null</div> <div>Employee type: Null</div> <div>Monthly-salary: Null</div> <div>Father-name: Null</div> <div>CNIC: Null</div> <div>Education: Null</div> <div>Gender: Null</div> <div>Religion: Null</div> <div>Blood group: Null</div> <div>Experience: Null</div> <div>Email: rahman@gmail.com</div> <div>Date of birth: Null</div> <div>Address: Null</div>	Employee data should be updated after edit and deleted after the deletion	As expected,	Pass
Post Condition: The data in the database must be updated after the edit. If the employee is deleted from the all employee section then the data of the employee must be removed.				

Test Case ID: EMP_1		Test Designed date:12/22/2022			
Test Priority (Low, Medium, High): HIGH		Test Executed by: Mehadi Hasan Shojib			
Module Name: Available ALL Employee		Test Execution date: 12/25/2022			
Test Title: Searching all available employee by admin account					
Description: Test eskooly admin searching all employee page					
Precondition (If any): Admin must have log in by username and password					
Test Steps		Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to website 2. Click Employees 3. Click All Employee 4. Search in the search box		Search By: Sajid/Prottoy/Asif Zaman / Tamimul	Admin could search all the employees	As expected,	Pass
Post Condition:					

Test Case ID: CLC_1		Test Designed date:12/22/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Mehadi Hasan Shojib		
Module Name: Class create		Test Execution date: 12/25/2022		
Test Title: Creating a class by admin account				
Description: Test the Create classes page				
Precondition (If any): Admin must have log in by username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to Website 2.Click Classes 3.Click New class 4. Type class name, tuition fees, Assign class teacher	Name of the Class: Class 9/Class 10 Monthly Tuition Fees:1200 Select Class Teacher: Sajid/Asif Zaman	Admin can create class	As expected	Pass
Post Condition: Admin successfully added the class and the information saved in database.				

Test Case ID: AS_1		Test Designed date:12/22/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Mehadi Hasan Shojib		
Module Name: Assign Subject		Test Execution date: 12/25/2022		
Test Title: Assigning subject by admin account				
Description: Test the Subject page				
Precondition (If any): Admin must have log in by username and password and Class must have been created				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to Website 2.Click Subjects 3.Click Assign Subjects 4. Select Class, Name of the subject and marks.	Select Class: Class 9/Class 10 Name of Subject: Physics/Math Marks: 100	Admin submit successfully	As expected,	Pass
Post Condition: Admin successfully added the subject and the information saved in database.				

Test Case ID: ADS_1		Test Designed date:12/22/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Mehadi Hasan Shojib		
Module Name: Add Student		Test Execution date: 12/25/2022		
Test Title: Adding student by admin account				
Description: Test the add student page				
Precondition (If any): Admin must have log in by username and password and Class and Subject must have been created				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to Website 2.Click Students 3.Click add new 4.Fill up all the required textbox	Name of Student: Any Name. Registration Number: not registered number Select Class: Any available class Admission Date: Admission date	Admin added student successfully	As expected,	Pass
Post Condition: Admin successfully added student and the information saved in database.				

Test Case ID: CR_1		Test Designed date:12/22/2022		
Test Priority (Low, Medium, High): High		Test Executed by: Mehadi Hasan Shojib		
Module Name: Student		Test Execution date: 12/25/2022		
Test Title: Verifying student registration number.				
Description: Test two page of one student to check registration number is same				
Precondition (If any): Admin must have log in by username and password and Student must have been created				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1.Go to Website 2.Click Students 3.Click All Students 4.Check registration number of a student 5.Go to that student report page 6. Check registration No 7.Match both pages Registration no	Reg No: 12202127	Both pages has to be the same registration number of a student	As expected,	Pass

8. ITEM PASS/FAIL CRITERIA

- Unit test done in each and every module or feature
- All the modules added one by one and integration test done after every module integrated
- 100% integration test passed
- No major defects are outstanding
- Not more than 15 minor defects are outstanding
- Code coverage tools indicates all code covered
- Ensuring all critical Test Cases are passed
- Identifying and fixing all the high-priority defects

9. TESTING SCHEDULE

The project schedule includes time for the upcoming testing activities. The precise hours and dates for each task are listed in the project plan timetable. The project schedule and strategy also detail the personnel requirements for each step. The project manager will coordinate the personnel required for each task, the test team, the development team, management, and the client in collaboration with the leaders of the development and test team

GANTT CHART (dec20-25)

