

American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology Summer 2022-23

Section: D

SOFTWARE QUALITY AND TESTING

eSkooly

Online School Management System

Report submitted By

SN	Student Name	Student ID
1	MD. HASIBUR RAHMAN	20-42180-1
2	SAIFULLAH	19-41367-3
3	JUBAER AHMAD NABIL	18-38837-3

Under the supervision of

ISRAT JAHAN MOURI

Assistant Professor
Department of Computer Science
Faculty of Science & Technology
American International University-Bangladesh

Software Test Plan for eSkooly Version 2.0 approved

Prepared by,

Group-8

MD. HASIBUR RAHMAN

SAIFULLAH

JUBAER AHMAD NABIL

American International University-Bangladesh

27th August, 2023

Checked By Industry Personnel

Name:	
Designation:	
Company:	
Sign:	
Date:	

Table of Contents

R	evision Historyevision	3
	TEST PLAN IDENTIFIER:RS-MTP01.3	
	REFERENCES	
	INTRODUCTION	
•	Background to the Problem	4
	Solution to the Problem	4
4.	REQUEIREMNT SPECIFICATION	5
	4.1 System Features	5
	4.2 System Quality Attributes	7
5.	FEATURES NOT TO BE TESTED	
	TESTING APPROACH	
	6.1 Testing Levels	
	6.2 Test Tools	9
	6.3 Meetings	11
7.	TEST CASES/TEST ITEMS	.12
8.	ITEMS PASS/FAIL CITERIA	.38
	TESTING SCHEDULE	.38

Revision History

Revision	Date	Updated by	Update Comments
0.1	2023.08.21	Md. Hasibur Rahman	First Draft
0.2	2023.08.22	Saifullah	Second Draft
0.4	2023.08.24	Saifullah	Fourth Draft
0.5	2023.08.29	Jubaer Ahmad Nabil	Fifth Draft
0.6	2023.08.26	Md. Hasibur Rahman	Sixth Draft

1. TEST PLAN IDENTIFIER: RS-MTP01.3

2. REFERENCES

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

3. INTRODUCTION

Background to the Problem

- 1) The use of student management systems has become an essential necessity in contemporary education, as it streamlines and automates various administrative tasks performed within educational institutions, including schools, colleges, and universities. This technology enables the expeditious collection of all the necessary data for managerial purposes. The main objective is to create software that can effectively oversee and handle multiple modules. What is the underlying cause of this issue? Why is it crucial to consider this problem?
- 2) The selected website is eSkooly. The system possesses the capability to effectively and efficiently handle and store pertinent information about students, faculty members, and teachers dynamically. The proposed technique offers a comprehensive approach to effectively oversee many aspects of student and university administration. The application facilitates the investigation of internal activities occurring within educational institutions, such as schools and colleges, which students may not be cognizant of.

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:

- o Result and Academic Transcript
- Accounts
- Online Admission
- o Messaging System
- o Students/Parents Login
- Student Manager

3) There exists a profound inclination inside our organization to provide exceptional service of the highest quality. Given that our utmost concern is to guarantee customer pleasure, we

allocate special focus to our training, operational management, professional skill, and

recruitment divisions.

Given that our utmost concern is to guarantee customer pleasure, we allocate particular

focus to our training, operational management, professional skill, and recruitment

divisions.

4) Our organization, eSkooly, has the capability to save and effectively handle data pertaining

to students, instructors, and teachers. The cloud-based eSkooly application was developed by Arena Phone Bd Ltd. The product has a Short Message Service (SMS) functionality and

mobile applications. Educational institutions are granted complimentary access to utilize

eSkooly. The utilization of this system enables personnel to effectively fulfill their routine

responsibilities while simultaneously monitoring various institutional activities. Furthermore,

parents are kept informed of the progress and development of their offspring.

4. REQUEIREMNT 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

5

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.

6

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 fixit.

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.

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

7

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.
- 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 cased 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.

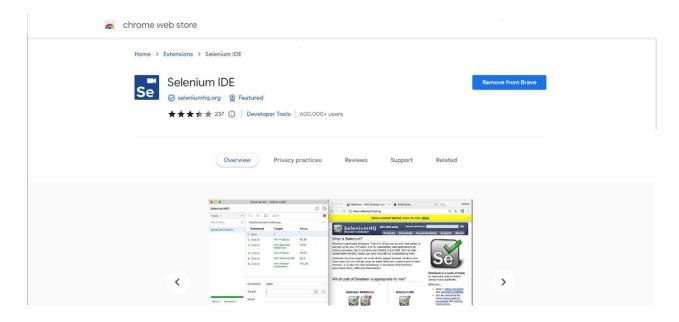


Fig-1

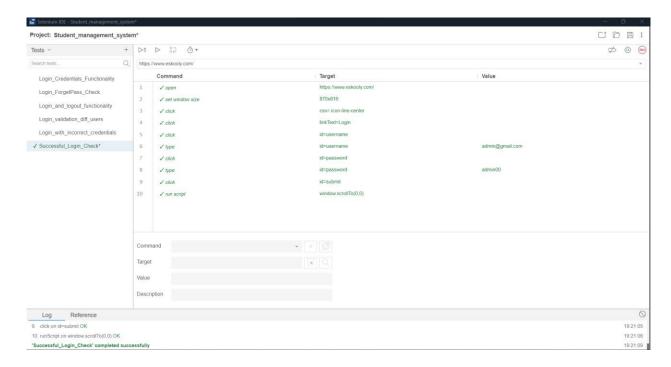


Fig-2

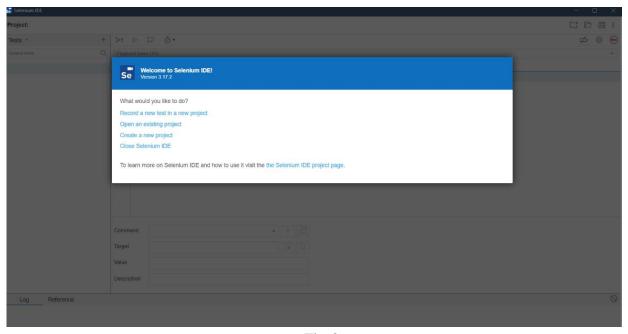


Fig-3

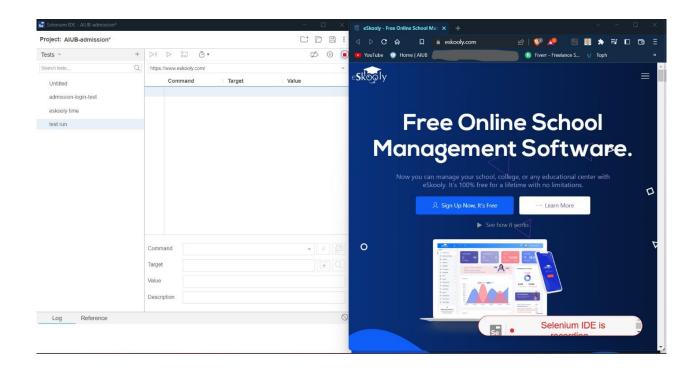


Fig-4

6.3 Meetings

The team leader responsible for quality assurance will arrange a weekly meeting to assess the testing procedures employed for the website. In order to expedite the identification of issues and defects, the practice of conducting code reviews and code walk-throughs, coupled with regular testing, will be employed. The project manager will engage in weekly consultations with each tester. To engage in a conversation regarding the current status of our project with the head of our quality assurance team. The inspection phase will involve the participation of all project staff on a biweekly basis.

7. TEST CASES/TEST ITEMS

				Test Designed by: Md. Hasibur Rahman		
Test Case ID: FR_1				Test Designed date: 19/08/2023		
				Test Executed by: Md. Hasibur Rahman		
Module Name: Registration input fie	ld functionality		Test Exec	cution date: 2	0/08/2023	
Test Title: Successful Registration C	heck					
Description: Test website's Registration Page and storing username and password to the database.						
Precondition (If any): Must land on	sign up page from we	ebsite l	homepage	successfully.		
Test Steps	Test Data	Expe Resu		Actual Results	Status (Pass/Fail)	
 Click on signup Enter E-mail Enter password Enter_Confirm password Accept terms and condition button Click signup button mhasibur@gmail.c om sucception Password: 123456 Confirm Password: 123456				As expected,	Pass	
Post Condition: User is registered with database and can be log in later.						

				Test Designed by: Md. Hasibur Rahman		
Test Case ID: FR_2				Test Designed date: 19/08/2023		
			Test Executed by: Md. Hasibur Rahman			
Module Name: Registration inpu	t field functionality		Test Ex	xecution date: 2	20/08/2023	
Test Title: Accept Terms and Conditions Validation Check						
Description: Not enabling terms at registration.	Description: Not enabling terms and conditions button after registration.					
Precondition (If any): Must enter email and password.						
Test Steps	Test Data	Expecte Results	d	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. Do not Accept terms and condition button 6. Click signup button 1. Go to the website's E-mail: mhasibur01@gmail.c om Password: 123456 Confirm Password: messa				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: Md. Hasibur Rahman		
Test Case ID: FR_3			Test Designed date: 19/08/2023		
			Test Executed by: Md. Hasibur Rahman		
Module Name: Registration inpu	t field functionality		Test Ex	xecution date:	20/08/2023
Test Title: Empty Registration cre	edentials.				
Description: Enter no input in the registration.					
Precondition (If any): Must not re	egister successfully.				
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)
 Go to the website's signup page Empty E-mail field Empty password Empty confirm password Didn't accept terms and condition button Click signup button 	N/A	0.501	site and how a	Result as expected,	Pass

Post Condition: User isn't registered with database and can't be log in later.

Project Name: Student Management System			Test Designed by: Md. Hasibur Rahman				
Test Case ID: FR_4			Test Designed date: 19/08/2023				
Test Priority (Low, Medium, High): Medium			Test Executed	by: Md. Hasib	our Rahman		
Module Name: Registration input field functionality			Test Execution	date: 20/08/2	023		
Test Title: Registration's E-mail Checking	on						
Description: Testing username fie e-mail's pattern validation	as an						
Precondition (If any): Must land of	on sign up page.						
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)		
 Go to the website's signup page Enter E-mail Enter password Enter confirm password Accept terms and condition button Click signup button 	E-mail: hasibur @gmail Password: 123456 Confirm Password: 123456		ilid Email" age pop up	Result not as expected,	Fail		
Post Condition: User can't be reg	Post Condition: User can't be registered.						

Project Name: Student Management System			Test Designed by: Md. Hasibur		
				nan	
Test Case ID: FR_5			Test 1	Designed date:	19/08/2023
			Test Executed by: Md. Hasibur Rahman		
Module Name: Registration	input field functionali	ty 1.1	Test 1	Execution date:	20/08/2023
Test Title: signup password/confirm password input fie validation					
Description: Testing password/confirm password field in page					
Precondition (If any): Must la	and on sign up page.				
Test Steps	Test Data	Expected Re	sults	Actual Results	Status (Pass/Fail)
 Go to the website's signup page Enter E-mail Enter password Enter confirm password Accept terms and condition button 	E-mail: rahman11@gmail.c om Password: 09876 Confirm Password: 67890	User should register successfully website		Result not as expected,	Fail

Post Condition: User isn't registered with database and can't be log in later.

				Test Designed by: Md. Hasibur Rahman			
Test Case ID: FR_6				Test Designed date: 19/08/2023			
Test Priority (Low, Medium, High): Medium				Test Executed by: Md. Hasibur Rahman			
Module Name: Registration UI/UX check session			Test Execution date: 20/08/2023				
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 Re		sults	Actual Results	Status (Pass/Fail)		

tus ss/Fail)
S

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: Md. Hasibur Rahman				
Test Case ID: FR_7			Test Designed date: 20/08/2023				
Test Priority (Low, Medium,	High): High		Test Execut	ted by: Md. Has	sibur Rahman		
Module Name: Registration	input field functional	ity 1.2	Test Execut	tion date: 21/08	/2023		
Test Title: Registration's e Checking	xisting e-mail validat	tion					
Description: Testing email fi e-mail's validation	ield functionality as e	xisting					
Precondition (If any): Must land on sign up page and at least one email should be registered database				egistered in the			
Test Steps	Test Data	Expec	ted Results	Actual Results	Status (Pass/Fail)		
Go to the website's signup page Enter an existing email	E-mail: mhasibur@gmail.c om	registe	sfully to the	As expected,	Pass		
Post Condition: Must show a warning message.							

Project Name: Student Management System			Test Designed by: Md. Hasibur Rahman				
Test Case ID: FR_8			Test Design	ed date: 20/	08/2023		
Test Priority (Low, Medium, Hi	gh): High		Test Executed by: Md. Hasibur Rahman				
Module Name: Admin module			Test Execution date: 21/08/2023				
Test Title: Login Check							
Description: Test website login wrong password	page for user- Admin	with					
Precondition (If any): User mus	st have valid email an	d passwoi	rd				
Test Steps	Test Data	Expected	d Results	Actual Results	Status (Pass/Fail)		
 Go to the website Go to login page Enter admin email Enter admin wrong password Click submit 	Username: mhasibur@gmail.c om Password: 2345678	User should not 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 S	ystem	Test Desig	ned by: Md	. Hasibur	
Test Case ID: FR_9	Test Desig	Test Designed date: 20/08/2023			
Test Priority (Low, Medium, High): M		Test Execu	ited by: Mo	l Hasibur	
restricting (20 w, medium, mgm).		Rahman	a o y . 111c	. 11451041	
Module Name: Admin module			ition date: 2	1/08/2023	
Test Title: Employee's account registr	ation				
rest Title. Employee's account registr	ation				
Description: Testing a successful reginaccount and storing username and pas					
Precondition (If any): Must land on lo	ogin page and have an adn	nin's account.			
Test Steps	Test Data	Expected	Actual	Status	
		Results	Results	(Pass/Fail)	
1. Go to the website	E-mail:	Admin	As	Pass	
2. Go to login page	mhasibur@gmail.co	should	expected,	1 488	
3. Enter admin username	m	register	expected,		
4. Enter admin password	Password: 123456	employees'			
5. Click submit	Employee's name:	account			
6. Click on employee	Md Rokibul Islam	successfully			
7. Add new	Number: 01781161012	to the			
8. Enter name of employee	Type: Teacher	website			
9. Enter mobile number	Joining date:				
10. Enter joining date	2023-08-26				
11. Enter salary	Salary: 20000				
12. Enter father's name	Father's name: Md.				
13. Enter CNIC	Azizur Rahman				
14. Enter education qualification	Gender: Male				
15. Enter gender	CNIC: 2500				
16. Enter religion	Religion:				
17. Enter Employee's email	Islam				
18. Enter blood group	Employees' email:				
19. Enter previous job					
experience	Education: BSc				
20. Enter Date of birth	Blood group: A+				
21. Address	Date of birth: 1965-06-				
22. Click on submit	01				
	Address:				
	Mirpur, Dhaka-1216				

Mirpur, Dhaka-1216

Post Condition: Employee's account is registered with database and can be log in later using provided username and password

Project Name: Student Management S	_	Test Designed by: Md. Hasibur Rahman			
Test Case ID: FR_10	+	ned date: 20	0/08/2023		
Test Priority (Low, Medium, High): N	Medium	Test Execu Rahman	ited by: Mo	l. Hasibur	
Module Name: Admin module		Test Execu	ition date: 2	1/08/2023	
Test Title: Edit Employee's account of	redentials				
Description: Edit and update a registe	red employee's credential	s			
Precondition (If any): Must land on l	ogin page and have an adn	nin's account.			
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
 Go to the website Go to login page Click All Employees Click edit button on an employee Edit employee's name Edit mobile number Edit salary Edit father's name Edit email Edit address Click on update 	Employee's name: Md Anisul Islam Number: 01781161010 Type: Teacher Salary: 27000 Father's name: Md. Maksudur Rahman Email: rokib@gmail.com Address: Rangpur	Admis should success fully edit employees' account to the website	As expected,	Pass	

Post Condition: Employee's account is registered with database and can be log in later using provided email and password

Test Case ID: FR_11			0/08/2023
Medium	Test Execu Rahman	ited by: Mo	l. Hasibur
	Test Execu	ition date: 2	1/08/2023
students			
ogin page and have an adı	nin's account.		
Test Data	Expected Results	Actual Results	Status (Pass/Fail)
Class name: Class 10 Tuition fees: 1200 Class teacher's name: Md. Anisul Islam	A new class will be added	As expected,	Pass
	Medium Students Ogin page and have an adr Test Data Class name: Class 10 Tuition fees: 1200 Class teacher's name:	Rahman Test Desig Medium Test Execu Rahman Test Execu	Rahman Test Designed date: 20 Medium Test Executed by: More Rahman Test Execution date: 2 Students Ogin page and have an admin's account. Test Data Expected Results Class name: Class 10 Tuition fees: 1200 Class teacher's name: added Results Rahman A new class As expected, Class teacher's name: added

Project Name: Student Management System			Test Designed by: Md. Hasibur Rahman			
Test Ca	ase ID: FR_12			Test Desi	gned date: 2	0/08/2023
Test Pr	iority (Low, Medium, Hig	h): Medium		Test Exec	uted by: Mo	l. Hasibur Rahman
Module	e Name: Admin Module			Test Exec	eution date: 2	21/08/2023
Test Ti	tle: Institution Informatio	n				
Descrip	otion: Edit institutional info	ormation				
Precon	dition (If any): Must land	on login page and have an	admin's accou	ınt.		
Test St	eps	Test Data	Expecte	Expected Results		Status (Pass/Fail)
1. 2. 3. 4. 5. 6. 7. 8. 9.	Click General settings Click Institute Profile Add name of institute Add a tagline Add phone number Add website Add address Add country Click update	Name of institute: Dhaka High School Tagline: Empowering Minds, Inspiring Futures: Nurturing Excellence at Every Step Phone number: 02 647 565	Update success	fully	As expected,	Pass

Post Condition: Admin's account is registered with database and can be logged in.

Website:

Country: Bangladesh

dhakaschool.edu.b

Address: Mirpur, Dhaka-1216

Project Name: Student Management System		Test Designed by: Md. Hasibur Rahman				
Test Case ID: FR_13		Те	st Designed da	ite: 20/08/202	23	
Test Priority (Low, Medium, High	h): Medium	Те	st Executed by	: Md. Hasibu	r Rahman	
Module Name: Admin Module		Те	st Execution da	ate: 21/08/202	23	
Test Title: Add a new student						
Description: Add student with pro	per credentials					
Precondition (If any): Must land	on login page and have an admin's ac	count.				
Test Steps	Test Data		Expected Results	Actual Results	Status (Pass/Fail)	
 Enter email Enter password Click add new student Add student name Add student registration number Add student class Add date of admission Add discount percentage Add phone number Add of phone number Add NIC no. Add cast Add ID mark Add blood group Drop down if there is any disease Add additional info Add no. sibling Add address Add religion Add father's NIC Add father's education Add mobile Add mother's name Add father's education Add father's monthly income Add mother's monthly income Click submit 	email: mhasibur@gmail.com password: 123456 student name: Nabil Hossain student registration number: 2010958569 Add student class: 10 Add date of admission: 2023-08-25 Add discount percentage:15 Add phone number: 01869587654 Add date of birth: 2007-11-14 Gender: Male ID mark: none blood group: A+ no. sibling: 2 Religion: Islam address: Mirpur, Dhaka Father's name: Sagor Islam father's NIC: 84646946464 fathers' occupation: Businessman father's education: MSc mobile: 0159678464 mother's name: Rubaiya mother's occupation: Home-maker mother's education: BBA Mother's phone: 01786945854 father's monthly income: 75000 mother's monthly income: 10000		Added successfully	As expected,	Pass	
	is registered with database and can be	logged	l in.			

Project Name: Student Management System			Test Designed by: Md. Hasibur Rahman			
Test Case ID: FR_14			Test Desi	gned date: 2	0/08/2023	
Test Priority (Low, Medium, Hig	n): Medium		Test Exec	uted by: Mo	l. Hasibur Rahman	
Module Name: Admin Module			Test Exec	ution date: 2	21/08/2023	
Test Title: Add monthly income						
Description: Add income and che	ck in accounts statement					
Precondition (If any): Must land	on login page and have an adı	min's accou	ınt.			
Test Steps	Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)	
 Enter in account section Click add monthly income Add income date Add income description 	Income date: 2023-08-19 Income type: Fund Amount: 1985	Add suc	ccessfully	As expected,	Pass	

Project Name: Student Management System			Test Designed by: Saifullah			
Test Case ID: FR_15			Test Desig	gned date: 2	5-08-23	
Test Priority (Low, Medium, Hig	h): High		Test Exec	uted by: Sa	ifullah	
Module Name: Login Validation	1.1		Test Exec	ution date: 2	25-08-23	
Test Title: Login Validation Diff	erent Users					
Description: Checking for log into password	different users with same user	rname and				
Precondition (If any): Username	and password must be register	red in the d	atabase befo	ore checkin	g	
Test Steps	Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)	
 Go to the website Go to login page Enter admin username into employee username Enter admin password into employee password Click submit 	Username: saif.2000@gmail.c om Password: Saif@2000	log in to	User shouldn't be log in to employee accounts		Pass	

Project Name: Student Management System			Test Designed by: Saifullah			
Test Case ID: FR_16			ned date: 25	-08-23		
		Test Execut	ted by: Saif	fullah		
		Test Execut	tion date: 25	5-08-23		
ty						
out functionality v	working					
gin page. Username	and passwo	rd must be co	rrect.			
Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)		
Username: Saif@2000 Password: Saif@2000	login	and logout	As expected,	Pass		
	out functionality very sin page. Username Test Data Username: Saif@2000 Password:	out functionality working gin page. Username and password Test Data Expected Username: Saif@2000 Password:	Test Design Test Execut Username and password must be considered as a second	Test Designed date: 25 Test Executed by: Saif Test Execution date: 25 ty out functionality working gin page. Username and password must be correct. Test Data Expected Results Actual Results Username: Saif@2000 Login and logout successfully Password: As expected,		

Project Name: Student Management System			Test Designed by: Saifullah			
Test Case ID: FR_17			Test Design	ned date: 25-08-23		
Test Priority (Low, Medium, High): High			Test Execu	ted by: Saifullah		
Module Name: Login Functionality Session			Test Execution date: 25-08-23			
Test Title: Login Credential Functionality	,					
Description: Checking the credentials function	tionalities working p	roperly or				
Precondition (If any): Must be on the Log	in page. Username a	nd passwo	rd should be	incorrect format		
Test Steps	Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)	
 Go to the website Go to login page Enter incorrect username format Enter incorrect password format Click submit 	Username: student@yahoo Password: 123	User shable to	ouldn't be login	Not as expected	Fail	
Post Condition: Must give warning while	giving incorrect info	rmation's		1	1	

Project Name: Student Management System			Test Designed by: Saifullah			
Test Case ID: FR_18			Test Designed d	late: 25-08-23	3	
Test Priority (Low, Medium, High): Medium			Test Executed by: Saifullah			
Module Name: Login Feature Session			Test Execution	date: 25-08-2	3	
Test Title: Login Forgot Password Fea	ture Checking					
Description: Checking forgot password	option working properly	or not				
Precondition (If any): Must be on the L	ogin page. Username mu	st be regi	stered to database	·.		
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)	
 Go to the website Go to login page Click forgot password Enter correct username Click reset password 	Username: truesaif111@gmail .com	User should be able to reset password and get login info in e mail			Pass	

Project Name: Student Management System			Test Designed by: Saifullah			
Test Case ID: FR_19	Test Designed date: 25-08-23					
Test Priority (Low, Medium, High): High			Test Executed	by: Saifullal	1	
Module Name: Employee addition feature			Test Execution	date: 25-08-	23	
Test Title: Add employee with valid inpu	ut					
Description: Checking the addition of a valid information in both required and form Precondition (If any): Must be landed on	optional section of the en	mployee	ust be registered	to database.		
Test Steps	Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)	
 Land to the dashboard section Go to Employees in menu bar Click on All Employees Click Add new button Enter employee name Enter mobile no Enter joining date Enter employee-type Enter monthly salary Enter father name Enter CNIC 	Name: Sefat Mob no: 01870083734 Joining-date:2022-02-26 Employee-type: Teacher Monthly-salary:40000	User register employ		As expected,	Pass	
12. Enter education	Father-name: Rahim					
13. Enter gender 14. Enter religion	CNIC:3123					

Experience: Teaching

15. Enter blood group

18. Enter date of birth19. Enter address

20. Click on submit

16. Enter experience17. Enter email

Email:sefat@gmail.com

Date of birth:1990-12-1

Address:Uttara Bangladesh

Education: AIUB

Gender: Male

Religion: Islam

Blood group: A+

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: Saifullah
Test Case ID: FR_20	Test Designed date: 25-08-23
Test Priority (Low, Medium, High): High	Test Executed by: Saifullah
Module Name: Employee form validation 1.0	Test Execution date: 25-08-23
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)
 Land to the dashboard section Go to Employees in menu bar Click on All Employees Click Add new button Enter employee name Enter mobile no Enter joining date Enter employee-type Enter monthly salary 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: Saifullah
Test Case ID: FR_21	Test Designed date: 25-08-23
Test Priority (Low, Medium, High): High	Test Executed by: Saifullah
Module Name: Employee form validation 1.1	Test Execution date: 25-08-23
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)
 Land to the dashboard section Go to Employees in menu bar Click on All Employees Click Add new button Enter employee name Enter mobile no Enter joining date Enter employee-type Enter monthly salary Click on submit 	Name: Invalid phone, String number Mob-no:Null, String_)(*&^&^^%) Joining-date: 2022-12-1, 2022-12-1 Employee-type:Store manager, Other Monthly-salary: 3000,2000 Father-name: Null CNIC: Null Education: Null Gender: Null Religion: 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 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: Saifullah
Test Case ID: FR_22	Test Designed date:25-08-23
Test Priority (Low, Medium, High): High	Test Executed by: Saifullah
Module Name: Employee form validation 1.2	Test Execution date: 25-08-23
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	Status
_			Results	(Pass/Fail)
1. Land to the dashboard section	Name: test_req, Null	Employee should not	As	Pass
	Mob-no: 01824500704	able to be registered.	expected,	
2. Go to Employees in menu ba	r Joining-date:Null, 2022-			
Click on All Employees	12-1			
4. Click Add new button	Employee type: Other,			
5. Land on the employee form	Null			
section	Monthly-salary:			
6. Enter mobile number	1000,Null			
7. Enter employee na	ne, Father-name: Null			
employee type and sal	ary CNIC: Null			
keeping joining date empty	Education: Null			
8. Enter joining date, emplo	vee Gender: Null			
type and salary keep	ng Religion: Null			
employee name empty	Blood group: Null			
9. Enter employee name, join	ng Experience: Null			
date, and salary keep	ng Email: Null			
employee type empty	Date of birth: Null			
10. Enter employee name, join	ng Address: Null			
date, employee type keep	ng			
salary empty				
11. Click on submit				

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: Saifullah
Test Case ID: FR_23	Test Designed date: 25-08-23
Test Priority (Low, Medium, High): High	Test Executed by: Saifullah
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)
 Land to the dashboard section Go to Employees in menu bar Click on All Employees Click Add new button Enter employee name Enter mobile no Enter joining date Enter employee-type Enter monthly salary Click on submit 	Name:Null option check Mob-no: 01824500704 Joining-date:2022-12- 15 Employee type: Other Monthly-salary: 1000 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 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 Syste	em		Test Designed b	y: Saifullah	
Test Case ID: FR_24			Test Designed d	late: 25-08-23	3
Test Priority (Low, Medium, High): Mediu	ım		Test Executed b	y: Saifullah	
Module Name: Register Already existing	account		Test Execution	date: 25-08-2	3
Test Title: Register an already existing ac	lmin				
Description: Will check if the form will c exists	heck that the account	already			
Precondition (If any): Must be landed on Usernamemust be registered to database.	the employee form p	oage durir	ng the addition of	the new em	ployee.
Test Steps	Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)
 Login Page Enter admin email in the admin username Enter password in the password field submit 	mail.com Pass: Saif@2000		should not be create account	As expected,	Pass
Post Condition: Cannot submit because a	ccount already exist				

Project Name: Student Management System	Test Designed by: Saifullah
Test Case ID: FR_25	Test Designed date: 25-08-23
Test Priority (Low, Medium, High): Medium	Test Executed by: Saifullah
Module Name: Multiple accounts	Test Execution date: 25-08-23
Test Title: Add multiple employees	
Description: Will check if the database is able to store multiple employees	
Precondition (If any). Must be logged in as the admin	

Precondition (If any): Must be logged in as the admin

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
 Land to the dashboard section Go to Employees in menu bar Click on All Employees Click Add new button Enter employee name Enter mobile no Enter joining date Enter employee-type Enter monthly salary Click on submit 	Name:1000- 2000option check Mob-no: 01824500704 Joining- date:2022-12-15 Employee type: OtherMonthly- salary: 1000 Father-name: Null CNIC: Null Education: Null Gender: Null Religion: Null Blood group: Null Experience: Null Email: Null Date of birth: Null Address: Null	All employees are expected to be added	As expected,	Pass

Post Condition: All employees were inserted successfully

Project Name: Student Management System		Test Designed by: Saifullah		
		Test Designed date: 25-08-23		
low		Test Executed by: Saifullah		
		Test Execution	on date: 25-08-2	23
t				
payment option is working				
st exist in the database.				
Test Data	Expecte	d Results	Actual Results	Status (Pass/Fail)
Username: truesaif111@gmail .com Month: June Deduction: 500	pay the money	teacher and the will be the will the the will be the w	e expected,	Pass
	t bayment option is working st exist in the database. Test Data Username: truesaif111@gmail .com Month: June	t bayment option is working st exist in the database. Test Data Expecte Username: truesaif111@gmail .com Anoth: June deduction	Test Designed Test Executed Expected Results Username: truesaif111@gmail com pay the teacher and the money will be deduction from the deduction from the company will be deducted by the c	Test Designed date: 25-08-2 low Test Executed by: Saifullah Test Execution date: 25-08-2 t payment option is working st exist in the database. Test Data Expected Results Actual Results Username: truesaif111@gmail pay the teacher and the money will be deduction from the

Project Name: Student Management System			Test Designed by: Jubaer Ahmad Nabil				
Test Case ID: 27			Test Designed date: 29-08-23				
Test Priority (Low, Medium, High): High			Test Executed by: Jubaer Ahmad Nabil				
Module Name: Details for Bank chalan			Test Exec	ution date: 2	29-08-23		
Test Title: Bank Added							
Description: Bank name adding in	Details for Bank chalan						
Precondition (If any):							
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)		
 Go to the website Go to dashboard Go to general setting Go to Bank Chalan Update Bank information Click submit 	Username: mhasibur@gmail.c om Password: 123456		Admin can update Bank information		Pass		
Post Condition:							

Project Name: Student Management System			Test Designed by: Jubaer Ahmad Nabil				
Test Case ID: 28			Test Designed date: 29-08-23				
Test Priority (Low, Medium, High): High			Test Executed by: Jubaer Ahmad Nabil				
Module Name: Institute Rules & Regulations			Test Execution date: 29-08-23				
Test Title: Publish new rule							
Description: Create new rules and regula	tions and publish						
Precondition (If any):							
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)		
 Go to the website Go to General settings Go to Institution rules & regulations Write new rules Click save changes 	Username: mhasibur@gmail.co m Password: 123456	New publish	rules ed	As expected,	Pass		
Post Condition:							

Project Name: Student Management System		Test Designed by: Jubaer Ahmad Nabil					
Test Case ID: 29			Test Designed date: 29-08-23				
Test Priority (Low, Medium, High): High			Test Execu	Test Executed by: Jubaer Ahmad Nabil			
Module Name: Student marks grading			Test Execu	tion date: 29-08-2	3		
Test Title: Grading							
Description: Admin can change gradings							
Precondition (If any):							
Test Steps	Test Data	Expecte	ed Results	Actual Results	Status (Pass/Fail)		
 Go to the website General setting Marks grading Update grading 	Username: mhasibur@gm ail.com Password: 123456	Admin marks g	can change grading	as expected	pass		
Post Condition:		1		I	<u> </u>		

Project Name: Student Management System		Test Designed by: Jubaer Ahmad Nabil					
Test Case ID: 30			Test Designed date: 29-08-23				
Test Priority (Low, Medium, High): low		Test Executed by: Jubaer Ahmad Nabil					
Module Name: Accounts			Test Execution date: 29-08-23				
Test Title: Add Chart of Account							
Description: Name of head of account	, Types						
Precondition (If any):			1				
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)		
 Go to the website Go to Account Chart of Account Write name and type 	Username: mhasibur@gmail.c om Password: 123456	User assign chart of account		As expected,	Pass		
Post Condition:							

Project Name: Student Management System		Test Designed by: Jubaer Ahmad Nabil					
Test Case ID: 31		Test Designed date: 29-08-23					
Test Priority (Low, Medium, High): Low		Test Executed b	Test Executed by: Jubaer Ahmad Nabil				
Module Name: Attendance		Test Execution date: 29-08-23					
Test Title: Mark Manual Attendance C	Class wise						
Description: Giving absent, present, lar	te						
Precondition (If any):							
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)		
 Go to the website Go to Attendance Submit date Select Class Search Give attendance 	Username: mhasibur@gmail.c om Password: 123456	Teacher attenda	6	As expected,	Pass		
Post Condition:							

Project Name: Student Management System		Test Designed by: Jubaer Ahmad Nabil					
Test Case ID: 32			Test Designed date: 29-08-23				
Test Priority (Low, Medium, High): High		Test Executed by: Jubaer Ahmad Nabil					
Module Name: Messaging			Test Execution date: 29-08-23				
Test Title: Compose a new messag	e						
Description: Admin can send a mess	sage to all students						
Precondition (If any):							
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)		
4. Go to the website5. Go to messaging6. Write a message7. Send10.	Username: mhasibur@gmail.c om Password: 123456	Admin messag		end	As expected,	Pass	
Post Condition:							

Project Name: Student Management System		Test Designed by: Jubaer Ahmad Nabil				
Test Case ID: 33			Test Designed date: 29-08-23			
Test Priority (Low, Medium, High): High		Test Executed by: Jubaer Ahmad Nabil				
Module Name: Exams			Test Execution date: 29-08-23			
Test Title: Add New Examination						
Description: Admin can assign new exa	am schedule					
Precondition (If any):						
Test Steps	Test Data	Expected Results		Actual Results	Status (Pass/Fail)	
 Go to the website Go to exams Add new exam schedule 	Username: mhasibur@gmail.c om Password: 123456	Admin can assign new exam schedule		As expected,	Pass	
Post Condition:						

8. ITEM PASS/FAIL CRITERIA

- A unit test is conducted for every module or functionality.
- Each module was sequentially added and an integration test was conducted following the integration of each module.
- All integration tests have successfully passed with a 100% success rate.
- There are no significant defects that remain unresolved.
- There are currently no more than 15 minor faults that remain unresolved.
- The code coverage tools suggest that all of the code has been covered.
- Ensuring the successful execution of all essential test cases.
- The task at hand involves the identification and resolution of faults that hold significant priority.

9. TESTING SCHEDULE

The project timeline has allocated time for the forthcoming testing activities. The specific hours and dates corresponding to each work are documented in the timetable outlined in the project plan. The project timeline and strategy also delineate the staffing requirements for each phase. The project manager will facilitate the coordination of employees necessary for each assignment, including the test team, development team, management, and the client. This collaboration will be conducted in conjunction with the leaders of the development and test teams.

GANTT CHART (August 21-26)

