



PGDIT AUTOMATION SYSTEM

Software Test Plan and Test Case Design

Team 3
BSSE07 Batch
Institute of Information Technology
University of Dhaka

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PGDIT AUTOMATION SYSTEM

Software Test Plan and Test Case Design Report

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Chapter 1: Test Planning

Test Item to be Tested

Name: PGDIT Automation System

Type: Web Application

Version: 1.0

About the Project

The PGDIT Automation System encompasses the online admission and course management system of the PGDIT course of Institute of Information Technology, University of Dhaka.

Main concerns of the project is-

- Registration of the teachers
- Registration of the students
- Authentication of users
- Profile management of the users
- Activating admission procedure
- Application for admission
- Application scrutinizing
- Admission completion
- Course Management
- Result Management

Features to be Tested

The following features of the software will be tested:

1. Authentication
2. Profile Management
3. Admission System
4. Course Management

Features Not to be Tested

The following features of the software will not be tested:

1. Mailing system
2. PDF Downloading System

Approach

Since our test item is a website, we will test it locally using the XAMPP server. We will divide the functionalities into modules and test each feature using **Black Box Testing**. The test cases will be prepared with **Robustness Testing**. The input specifications will be prepared using the specifications acquired from the SRS.

Item Pass Fail Criteria

If 90% of the prepared tested cases pass, then we can consider the project as a whole to pass.

Test Deliverables

Our deliverable documents are:

1. **Test plan:** We have attached following points with the test plan-
 - Introduction
 - Test-Item to be tested
 - Features to be tested
 - Features not to be tested
 - Approach
 - Item Pass and Fail Criteria
 - Test deliverables
 - Testing tasks
 - Responsibilities
 - Scheduling
 - Risks and contingencies
 - Testing costs

2. **Test case specifications:** We have attached 59 test cases within our project scope. A test case specification has-
 - Test case Specification Identifier
 - Purpose
 - Special Environmental
 - Special Procedural Requirements
 - Inter-case Dependencies
 - Input Specifications
 - Test Procedure
 - Output Specifications

Testing Tasks

Preparing and setting up system environment: Before executing the test cases we have to prepare the server, which is a local XAMPP server with an associated database.

Tasks for test case:

The features will be divided into three modules of testing.

Testing Authentication: refers to teacher and student registration, login and password reset process

Testing Admission System: refers to every feature related to the admission system

Testing Course Management System: refers to managing courses for teachers and students

Responsibilities

Our team consists of three members. So, all of us have high responsibilities in this project.

Member	Responsibilities
Aquib Azmain	<ul style="list-style-type: none">❖ Preparing test cases for Authentication System❖ Managing test team❖ Preparing test plan
S.M. Shakhawat Hossain	<ul style="list-style-type: none">❖ Preparing test cases for Admission System❖ Providing environmental need
Syed Fatiul Huq	<ul style="list-style-type: none">❖ Preparing test cases for Course Management System❖ Executing test case❖ Preparing test plan

Scheduling

Time estimation to perform testing task:

Test Task	Estimated time (day)	Date
Defining team responsibilities	1	
Defining test plan	2	
Preparing test case	2	
Executing test case	1	
Preparing report	1	

Risks and Contingencies

For some risks of this project there are some changes and consequences in the plan-

Time shortage: There was lack of time to prepare the test plan and test case specifications.

Test case amount: The number of tests performed has been reduced.

Defect amount: The number of acceptable defects has been increased for less test case and limited scope.

Testing cost

Cost of planning and designing the tests of this project is very small since it is a small academic project.

Cost to support the environment: Since it is a web-based software, we need internet connection to support the environment. So, the cost to maintain internet connection in order to continue the testing.

Cost of executing the tests: We did not need any executing test cost.

Cost of recording and analyzing the test results: In the testing procedure, we have prepared a test case specification and also a test plan for this PGDIT Automation system. So, it requires a good amount of cost for preparing the document and delivering the document.

Chapter 2: Test Case Designing

Test design specification (Subsystem: Authentication)

S. No	Functionality	Use case no in SRS	Test cases
1	Login the system	1.1	T1, T2, T3, T4
2	Apply for registration	1.1.1	T5, T6, T7, T8, T9, T10, T11, T12
3	View new member request	1.1.1	T13
3	Approve new member request	1.1.1	T14
4	Decline member request	1.1.1	T15
5	Choose forget password option	1.1.2	T16
6	Request recovery code	1.1.2	T17, T18
7	Entering recovery code	1.1.2	T19, T20
8	Entering new password	1.1.2	T21, T22, T23
9	Log out the system	1.1	T24

Reference Usecases (Subsystem: Authentication)

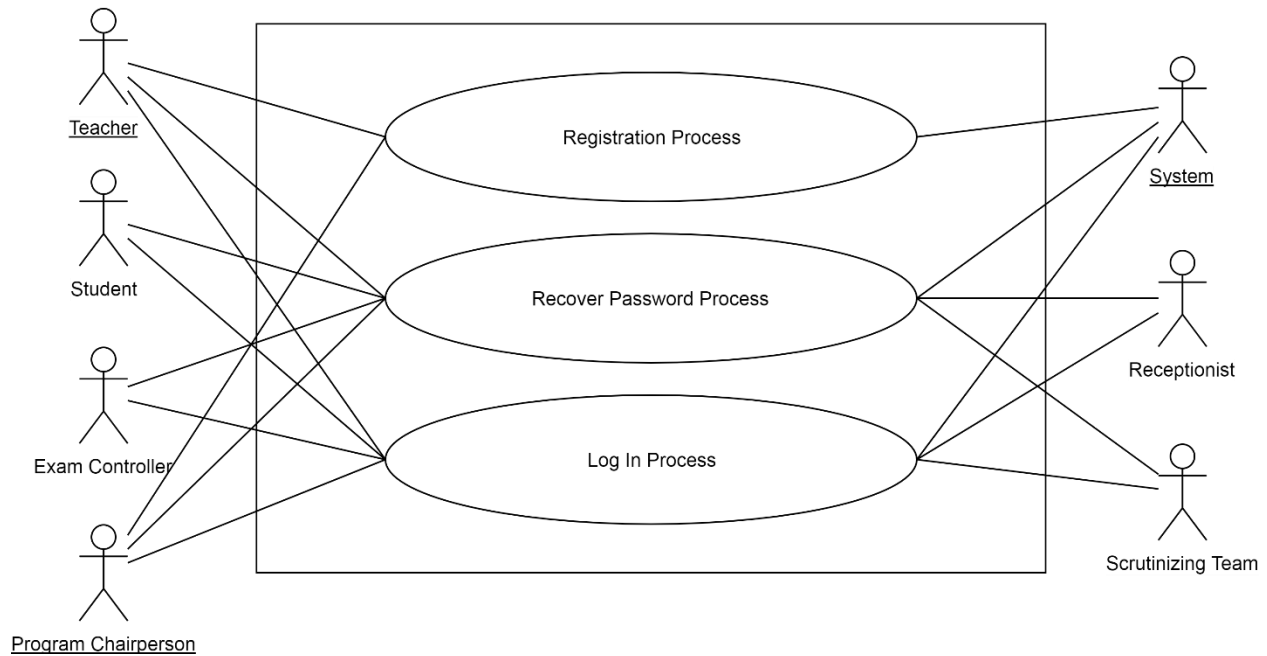


Figure 1: Usecase Level-1.1-Authentication

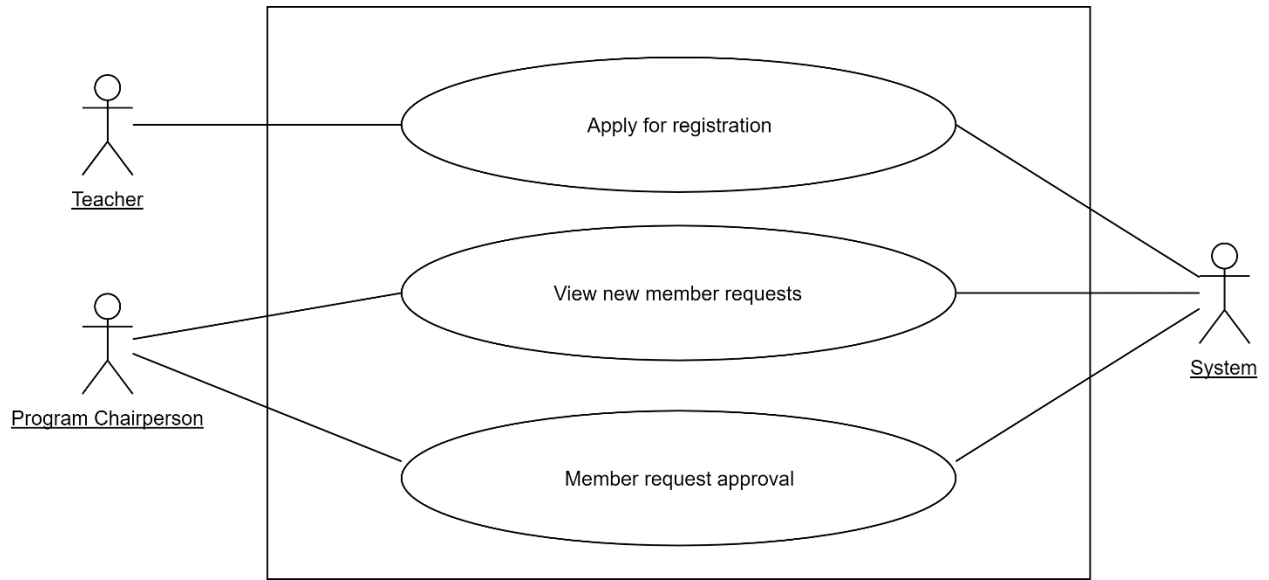


Figure 2: Usecase Level-1.1.1-Registration process

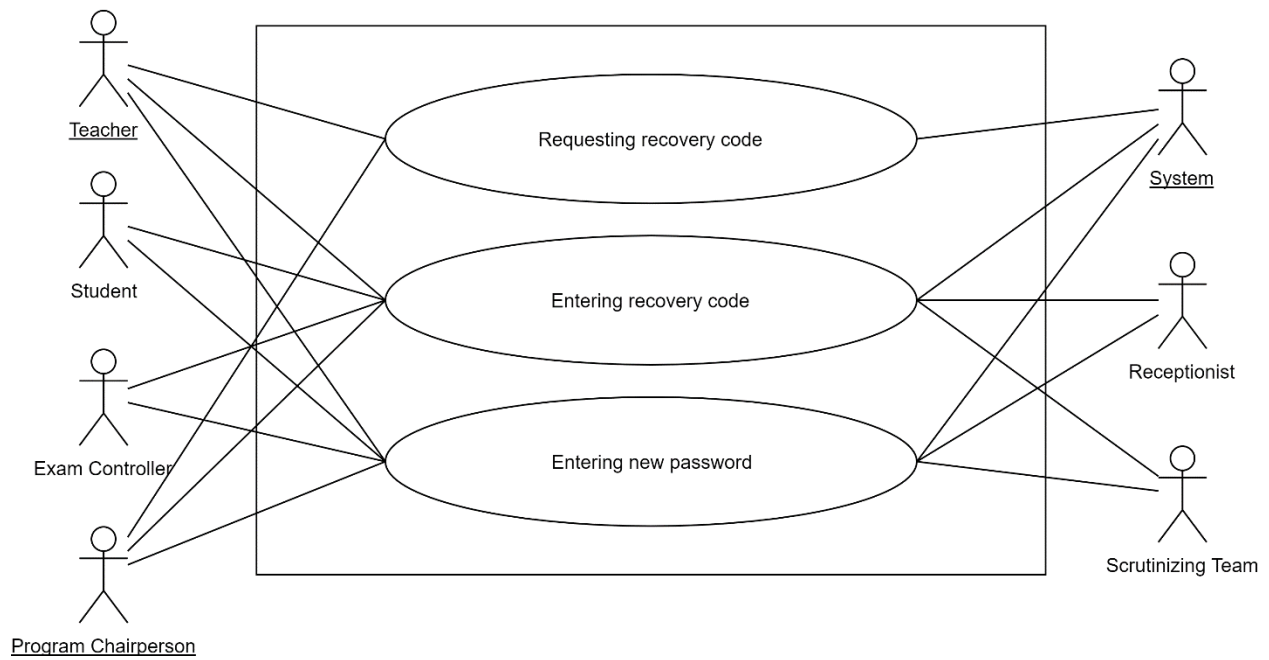


Figure 3: Usecase Level-1.1.2-Recover password process

Test specifications (Subsystem: Authentication)

Table 1: Test specifications of T1

Test case Specification Identifier	T1
Purpose	To check the functionality of 'Login the system'
Test Items Needed	Refer Usecase-1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Enter Username in 50 characters as given below: Saeed Siddik fatiulHaq@gmail.com Aquibazmain123
Test Procedure	Press 'What do you want to do' button Choose 'Sign in' option Enter user name and press 'Next' button
Output Specifications	Prompt user to enter password.

Table 2: Test specifications of T2

Test case Specification Identifier	T2
Purpose	To check the functionality of 'Login the system'
Test Items Needed	Refer Usecase-1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Enter Username in 50 characters as given below (Username not in database): Eusha Kadir Satyaki Das
Test Procedure	Press 'What do you want to do' button Choose 'Sign in' option Enter user name and press 'Next' button
Output Specifications	Show invalid username alert.

Table 3: Test specifications of T3

Test case Specification Identifier	T3
Purpose	To check the functionality of 'Login the system'
Test Items Needed	Refer Usecase-1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1 test case must be executed prior to the current test case execution.
Input Specifications	Enter password in 20 characters as given below: 12345 Abcd123
Test Procedure	Enter password and press 'Login' button
Output Specifications	User logged in and view dashboard

Table 4: Test specifications of T4

Test case Specification Identifier	T4
Purpose	To check the functionality of 'Login the system'
Test Items Needed	Refer Usecase-1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1 test case must be executed prior to the current test case execution.
Input Specifications	Enter password in 20 characters as given below (Wrong password): 12345 Abcd123
Test Procedure	Enter password and press 'Login' button
Output Specifications	Show invalid password alert.

Table 5: Test specifications of T5

Test case Specification Identifier	T5
Purpose	To check the functionality of 'Apply for registration''
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains A-Z, a-z, space Username contains any character Father's name contains A-Z, a-z, space Mother's name contains A-Z, a-z, space Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. Saeed Siddik Username: Saeed Siddik Father's name: Mr. X Mother's name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789 Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	<p>Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button</p>
Output Specifications	Show success message.

Table 6: Test specifications of T6

Test case Specification Identifier	T6
Purpose	To check the functionality of 'Apply for registration''
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains number Username contains any character Father's name contains A-Z, a-z, space Mother's name contains A-Z, a-z, space Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. 1345 Username: Saeed Siddik Father's name: Mr. X Mother's name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789 Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button
Output Specifications	Show invalid full name alert.

Table 7: Test specifications of T7

Test case Specification Identifier	T7
Purpose	To check the functionality of 'Apply for registration''
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains special character Username contains any character Father's name contains A-Z, a-z, space Mother's name contains A-Z, a-z, space Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. @#\$% Username: Saeed Siddik Father's name: Mr. X Mother's name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789 Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button
Output Specifications	Show invalid Full name alert

Table 8: Test specifications of T8

Test case Specification Identifier	T8
Purpose	To check the functionality of 'Apply for registration'
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains A-Z, a-z, space Username contains any character Father's name contains A-Z, a-z, space Mother's name contains A-Z, a-z, space Email ≠ [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. Saeed Siddik Username: Saeed Siddik Father's name: Mr. X Mother's name: Mrs. Y Email: saeedsiddikgmail.com Mobile no: 01712345789 Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	<p>Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button</p>
Output Specifications	Show invalid email alert

Table 9: Test specifications of T9

Test case Specification Identifier	T9
Purpose	To check the functionality of 'Apply for registration'
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains A-Z, a-z, space Username contains any character Father's name contains A-Z, a-z, space Mother's name contains A-Z, a-z, space Email = [a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. Saeed Siddik Username: Saeed Siddik Father's name: Mr. X Mother's name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789zxczca Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	<p>Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button</p>
Output Specifications	Show invalid mobile number alert.

Table 10: Test specifications of T10

Test case Specification Identifier	T10
Purpose	To check the functionality of ‘Apply for registration’
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User’s browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains A-Z, a-z, space Username contains any character Father’s name contains A-Z, a-z, space Mother’s name contains A-Z, a-z, space Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains special character Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. Saeed Siddik Username: Saeed Siddik Father’s name: Mr. X Mother’s name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789 Teacher registration no: 123#\$abc Present Address: Dhaka</p>
Test Procedure	<p>Press ‘What do you want to do’ button Choose ‘Create new account’ option Enter full name, username, father’s name, mother’s name, email, mobile number, teacher registration number, present address. Press ‘Sign up’ button</p>
Output Specifications	Show invalid teacher registration number alert.

Table 11: Test specifications of T11

Test case Specification Identifier	T11
Purpose	To check the functionality of 'Apply for registration''
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains A-Z, a-z, space Username contains any character Father's name contains special character Mother's name contains A-Z, a-z, space Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. Saeed Siddik Username: Saeed Siddik Father's name: Mr. X&%\$(* Mother's name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789 Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	<p>Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button</p>
Output Specifications	Show invalid Father's name alert.

Table 12: Test specifications of T12

Test case Specification Identifier	T12
Purpose	To check the functionality of 'Apply for registration''
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	<p>Full Name contains A-Z, a-z, space Username contains any character Father's name contains number Mother's name contains A-Z, a-z, space Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ Mobile number contains no letter Teacher registration number contains A-Z, a-z, 0-9 Present Address contains any character Sample inputs are given below:</p> <p>Full name: Md. Saeed Siddik Username: Saeed Siddik Father's name: Mr. X124565 Mother's name: Mrs. Y Email: saeedsiddik@gmail.com Mobile no: 01712345789 Teacher registration no: 123abc Present Address: Dhaka</p>
Test Procedure	<p>Press 'What do you want to do' button Choose 'Create new account' option Enter full name, username, father's name, mother's name, email, mobile number, teacher registration number, present address. Press 'Sign up' button</p>
Output Specifications	Show invalid Father's name alert.

Table 13: Test specifications of T13

Test case Specification Identifier	T13
Purpose	To check the functionality of 'View new member request'
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Login the system' of User type: Program chair must be executed prior to the current test case.
Inter-case Dependencies	T1, T3 test cases must be executed prior to the current test case execution
Input Specifications	None
Test Procedure	Press 'Action' button Choose 'View request' option
Output Specifications	Show user the list of new member requests.

Table 14: Test specifications of T14

Test case Specification Identifier	T14
Purpose	To check the functionality of 'View new member request'
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'view new member request' must be executed prior to the current test case.
Inter-case Dependencies	T13 test case must be executed prior to the current test case execution
Input Specifications	None
Test Procedure	Press 'Approve' button
Output Specifications	Show success alert.

Table 15: Test specifications of T15

Test case Specification Identifier	T15
Purpose	To check the functionality of 'Decline new member request'
Test Items Needed	Refer Usecase-1.1.1 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Decline new member request' must be executed prior to the current test case.
Inter-case Dependencies	T13 test case must be executed prior to the current test case execution
Input Specifications	None
Test Procedure	Press 'Decline' button
Output Specifications	Show success alert.

Table 16: Test specifications of T16

Test case Specification Identifier	T16
Purpose	To check the functionality of 'Forgot password'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Enter username for log in' must be executed prior to the current test case.
Inter-case Dependencies	T1 test case must be executed prior to the current test case execution
Input Specifications	None
Test Procedure	Press 'Forgot password' button
Output Specifications	Prompt user to enter username again.

Table 17: Test specifications of T17

Test case Specification Identifier	T17
Purpose	To check the functionality of 'Request recovery code'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Forgot password' must be executed prior to the current test case.
Inter-case Dependencies	T16 test case must be executed prior to the current test case execution
Input Specifications	Enter Username in 50 characters as given below: Saeed Siddik fatiulHaq@gmail.com Aquibazmain123
Test Procedure	Press 'Send Mail' button
Output Specifications	Prompt user to enter recovery code.

Table 18: Test specifications of T18

Test case Specification Identifier	T18
Purpose	To check the functionality of 'Request recovery code'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Forgot password' must be executed prior to the current test case.
Inter-case Dependencies	T16 test case must be executed prior to the current test case execution
Input Specifications	Enter Username in 50 characters as given below (Wrong username): Saeed Siddik fatiulHaq@gmail.com Aquibazmain123
Test Procedure	Press 'Send Mail' button
Output Specifications	Show 'Username not found' error message.

Table 19: Test specifications of T19

Test case Specification Identifier	T19
Purpose	To check the functionality of 'Entering recovery code'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Request recovery code' must be executed prior to the current test case.
Inter-case Dependencies	T17 test case must be executed prior to the current test case execution
Input Specifications	Enter Recovery code in 6 characters as given below : be5c13 AV34TY
Test Procedure	Press 'Submit' button
Output Specifications	Prompt user to enter new password.

Table 20: Test specifications of T20

Test case Specification Identifier	T20
Purpose	To check the functionality of 'Entering recovery code'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Request recovery code' must be executed prior to the current test case.
Inter-case Dependencies	T17 test case must be executed prior to the current test case execution
Input Specifications	Enter Recovery code (Wrong) in 6 characters as given below : be5c13 AV34TY
Test Procedure	Press 'Submit' button
Output Specifications	Show 'Recovery code not matched' error message

Table 21: Test specifications of T21

Test case Specification Identifier	T21
Purpose	To check the functionality of 'Entering new password'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Entering recovery code' must be executed prior to the current test case.
Inter-case Dependencies	T19 test case must be executed prior to the current test case execution
Input Specifications	Enter password more than 4 characters as given below: Password: iit123 Re-enter password: iit123
Test Procedure	Press 'Set password' button
Output Specifications	User logged in and show dashboard.

Table 22: Test specifications of T22

Test case Specification Identifier	T22
Purpose	To check the functionality of 'Entering new password'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Entering recovery code' must be executed prior to the current test case.
Inter-case Dependencies	T19 test case must be executed prior to the current test case execution
Input Specifications	Enter password less than or equal 4 characters as given below: Password: iit Re-enter password: iit
Test Procedure	Press 'Set password' button
Output Specifications	Show 'password invalid' error alert.

Table 23: Test specifications of T23

Test case Specification Identifier	T23
Purpose	To check the functionality of 'Entering new password'
Test Items Needed	Refer Usecase-1.1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	The function 'Entering recovery code' must be executed prior to the current test case.
Inter-case Dependencies	T19 test case must be executed prior to the current test case execution
Input Specifications	Enter password more than 4 characters as given below: Password: iit123 Re-enter password: iit12345678
Test Procedure	Press 'Set password' button
Output Specifications	Show 'password not matched' error alert.

Table 24: Test specifications of T24

Test case Specification Identifier	T24
Purpose	To check the functionality of 'Log out the system'
Test Items Needed	Refer Usecase-1.1 in SRS
Special Environmental	Internet should be in working condition.
Special Procedural Requirements	The function 'Log in the system' must be executed prior to the current test case.
Inter-case Dependencies	T1, T3 test case must be executed prior to the current test case execution
Input Specifications	None
Test Procedure	Press 'Logout' button
Output Specifications	User logged out and show external home page.

Test design specification (Subsystem: Profile management)

S. No	Functionality	Use case no in SRS	Test cases
10	Choose edit profile option	1.4	T25, T26
11	Edit email	1.4	T27, T28
12	Edit password	1.4	T29, T30
13	Edit mobile no	1.4	T31, T32
14	Edit address	1.4	T33
15	Edit profile picture	1.4	T34, T35
16	View user data	1.4	T36

Reference Usecases (Subsystem: Profile management)

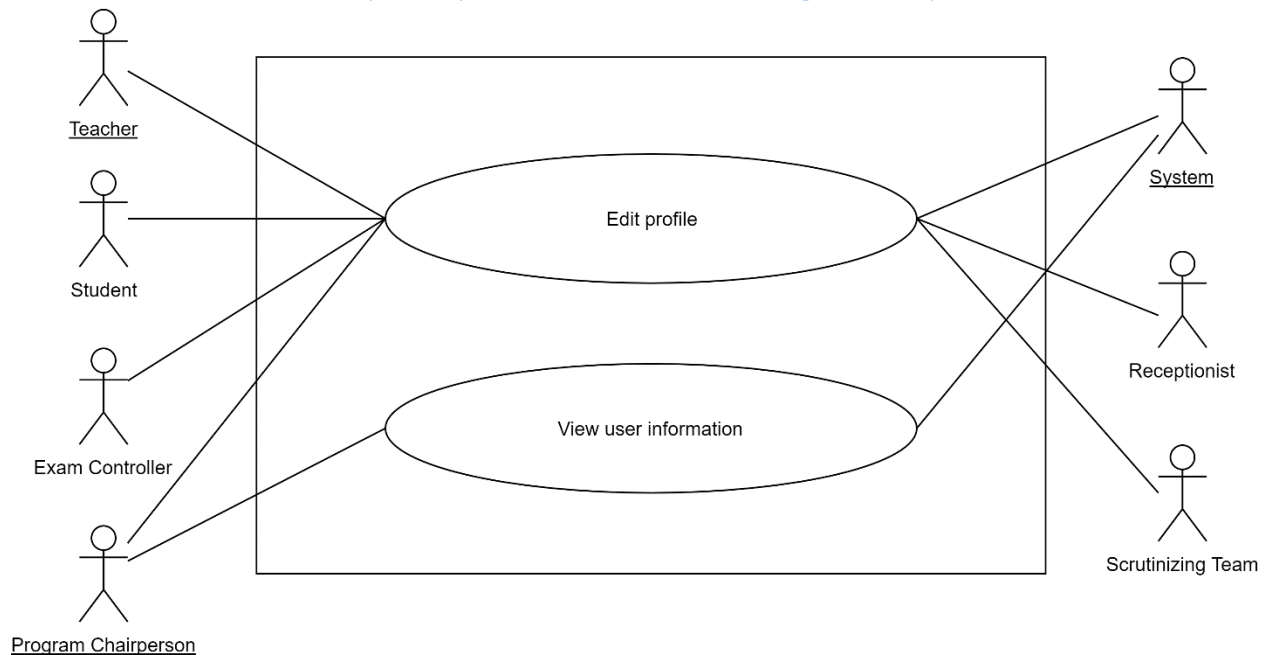


Figure 4: Usecase level-1.4-Profile management

Test specifications (Subsystem: Profile management)

Table 25: Test specifications of T25

Test case Specification Identifier	T25
Purpose	To check the functionality of 'Choose edit profile option'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Login' must be executed prior to the current test case.
Inter-case Dependencies	T1, T3 test cases must be executed prior to the current test case execution.
Input Specifications	Enter Password as given below: lit123 lit12345
Test Procedure	Press 'User profile' button Enter password and press 'Submit' button
Output Specifications	Prompt user to edit profile.

Table 26: Test specifications of T26

Test case Specification Identifier	T26
Purpose	To check the functionality of 'Choose edit profile option'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Login' must be executed prior to the current test case.
Inter-case Dependencies	T1, T3 test cases must be executed prior to the current test case execution.
Input Specifications	Enter wrong Password
Test Procedure	Press 'User profile' button Enter password and press 'Submit' button
Output Specifications	Show wrong password error message.

Table 27: Test specifications of T27

Test case Specification Identifier	T27
Purpose	To check the functionality of 'Edit mail'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Email = [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ As given below: Aquibazmain123@gmail.com
Test Procedure	Press 'E-mail Address' button Enter new email and press 'Save Changes' button
Output Specifications	Show success message.

Table 28: Test specifications of T28

Test case Specification Identifier	T28
Purpose	To check the functionality of 'Edit mail'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Email ≠ [a-z0-9._%+~]+@[a-z0-9.-]+\.[a-z]{2,3}\$ As given below: Aquibazmain123gmail.com
Test Procedure	Press 'E-mail Address' button Enter new email and press 'Save Changes' button
Output Specifications	Show invalid email error message.

Table 29: Test specifications of T29

Test case Specification Identifier	T29
Purpose	To check the functionality of 'Edit password'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Enter password more than 4 characters as given below: Password: iit123 Re-enter password: iit123
Test Procedure	Press 'Password' button Enter new password and press 'Save Changes' button
Output Specifications	Show success message.

Table 30: Test specifications of T30

Test case Specification Identifier	T30
Purpose	To check the functionality of 'Edit password'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Enter password less than or equal 4 characters as given below: Password: iit Re-enter password: iit
Test Procedure	Press 'Password' button Enter new password and press 'Save Changes' button
Output Specifications	Show invalid email error message.

Table 31: Test specifications of T31

Test case Specification Identifier	T31
Purpose	To check the functionality of 'Edit mobile no'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Mobile number contains no letter as given below: 01711234567 +8801711234567
Test Procedure	Press 'Mobile No' button Enter new mobile no and press 'Save Changes' button
Output Specifications	Show success message.

Table 32: Test specifications of T32

Test case Specification Identifier	T32
Purpose	To check the functionality of 'Edit mobile no'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Mobile number contains no letter as given below: 01711234567 +8801711234567
Test Procedure	Press 'Mobile No' button Enter new mobile no and press 'Save Changes' button
Output Specifications	Show success message.

Table 33: Test specifications of T33

Test case Specification Identifier	T33
Purpose	To check the functionality of 'Edit address'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Address contains any character as given below: 23 Kazi Nazrul Islam Road, Dhaka Sankar, Jaforabad, Dhaka
Test Procedure	Press 'Address' button Enter new address and press 'Save Changes' button
Output Specifications	Show success message.

Table 34: Test specifications of T34

Test case Specification Identifier	T34
Purpose	To check the functionality of 'Edit photo'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Photo size = 350*400 Photo file type = 'JPEG' Photo contains file path as given below: G:\Photos\1.jpg E:\Photos\Shourav.jpg
Test Procedure	Press 'Profile picture' button Choose new file and press 'Save Changes' button
Output Specifications	Show success message.

Table 35: Test specifications of T35

Test case Specification Identifier	T35
Purpose	To check the functionality of 'Edit photo'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	Photo size = 350*400 Photo file type ≠ 'JPEG' Photo contains file path as given below: G:\Photos\1.png E:\Photos\Shourav.gif
Test Procedure	Press 'Profile picture' button Choose new file and press 'Save Changes' button
Output Specifications	Show invalid photo format error message.

Table 36: Test specifications of T36

Test case Specification Identifier	T36
Purpose	To check the functionality of 'View user data'
Test Items Needed	Refer Usecase-1.4 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be retrieved should be in running condition.
Special Procedural Requirements	The function 'Choose edit profile option' must be executed prior to the current test case.
Inter-case Dependencies	T25 test cases must be executed prior to the current test case execution.
Input Specifications	None
Test Procedure	Press 'Profile picture' button Choose new file and press 'Save Changes' button
Output Specifications	Show invalid photo format error message.

Test design specification (Admission System)

S. No	Functionality	Use case no in SRS	Test cases
17	Activating admission procedure	1.2	T37, T38, T39, T40, T41, T42, T43, T44, T45, T46, T47, T48
18	Apply for admission	1.2	T49, T50, T51, T52
19	Scrutinizing	1.2	T53

Reference Usecases (Subsystem: Admission System)

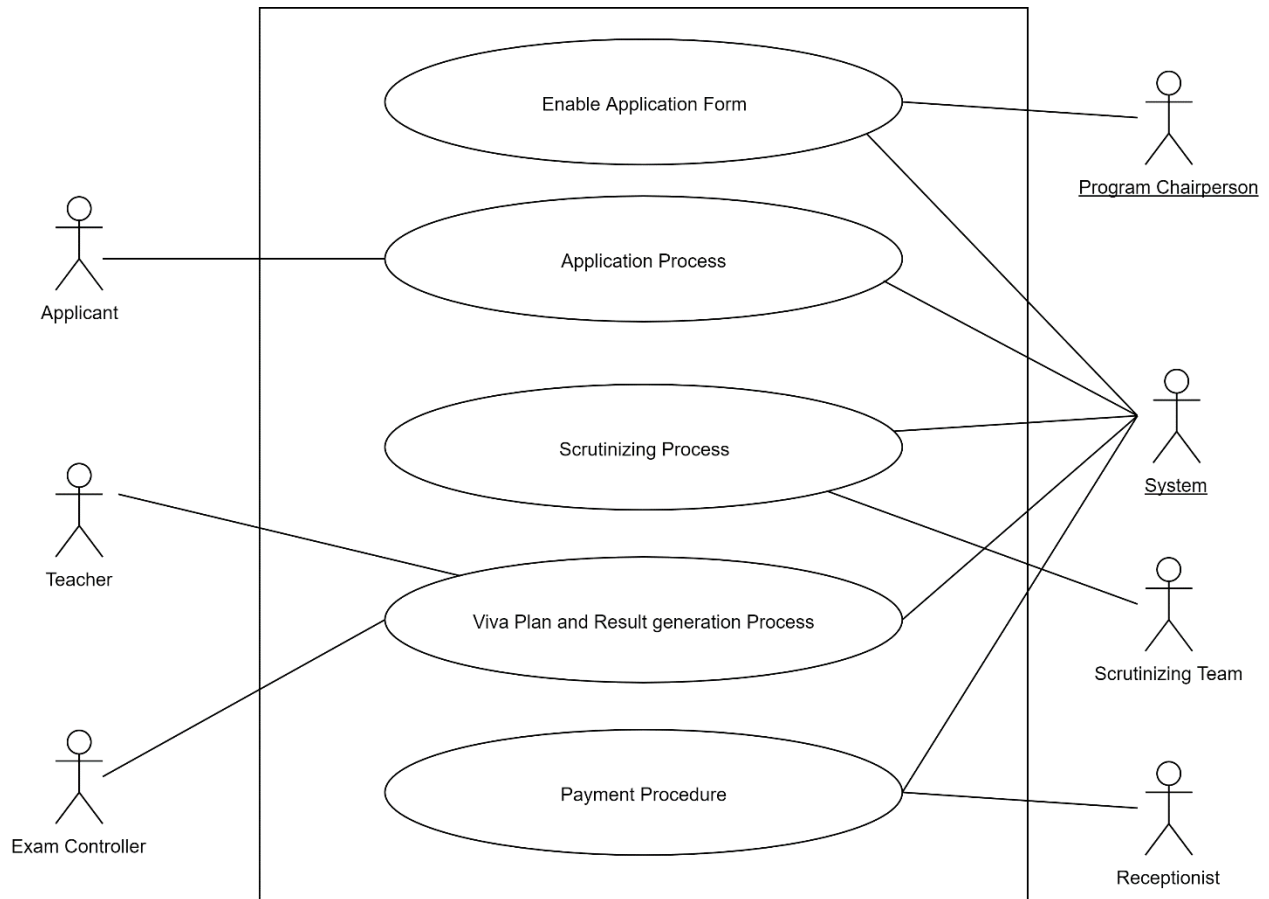


Figure 5: Usecase Level-1.2- Admission System

Test specifications (Subsystem: Admission System)

Table 37: Test specifications of T37

Test case Specification Identifier	T37
Purpose	To check the functionality of ‘activating admission procedure’
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1, T3
Input Specifications	Enter admission year in 4 digits as below 2017
Test Procedure	Enter admission year and press ‘start’ button
Output Specifications	Prompt user to form fill up (start) date

Table 38: Test specifications of T38

Test case Specification Identifier	T38
Purpose	To check the functionality of ‘activating admission procedure’
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1, T3
Input Specifications	Enter admission year in 4 or less than 4 characters as below Hjg4 123 1c3
Test Procedure	Enter admission year and press ‘start’ button
Output Specifications	Prompt user error message “Please match the requested format”

Table 39: Test specifications of T39

Test case Specification Identifier	T39
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1, T3 test cases must be executed prior to the current test case execution.
Input Specifications	None
Test Procedure	press 'start' button
Output Specifications	Prompt user to form fill up (Admission year) date

Table 40: Test specifications of T40

Test case Specification Identifier	T40
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T37 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for form fill up (start) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Prompt user to fill out the form fill up(end) date

Table 41: Test specifications of T41

Test case Specification Identifier	T41
Purpose	To check the functionality of ‘activating admission procedure’
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T40 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for form fill up (end) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press ‘start’ button
Output Specifications	Prompt user to fill out the application payment(start) date

Table 42: Test specifications of T42

Test case Specification Identifier	T42
Purpose	To check the functionality of ‘activating admission procedure’
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T41 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for application payment (start) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press ‘start’ button
Output Specifications	Prompt user to fill out the application payment(end) date

Table 43: Test specifications of T43

Test case Specification Identifier	T43
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T38 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for application payment (end) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Prompt user to fill out the scrutinizing process(start) date

Table 44: Test specifications of T44

Test case Specification Identifier	T44
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T37 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for scrutinizing process (start) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Prompt user to fill out the admission date

Table 45: Test specifications of T45

Test case Specification Identifier	T45
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T44 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for admission date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Prompt user to fill out the admission payment(start)date

Table 46: Test specifications of T46

Test case Specification Identifier	T46
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T45 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for admission payment (start) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Prompt user to fill out the admission payment(end)date

Table 47: Test specifications of T47

Test case Specification Identifier	T47
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T46 test cases must be executed prior to the current test case execution.
Input Specifications	Choose a date from the calendar for admission payment (end) date. the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Show user the session page with all dates set with change option except for admission year.

Table 48: Test specifications of T48

Test case Specification Identifier	T48
Purpose	To check the functionality of 'activating admission procedure'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1, T3, T42 test cases must be executed prior to the current test case execution.
Input Specifications	Type a date for any option(form fill up(start), admission payment(end)) like below which are invalid: 11/31/2017 02/31/2017 . the format of date is mm/dd/yyyy
Test Procedure	choose date and press 'start' button
Output Specifications	Prompt the user message to enter a valid non-empty value

Table 49: Test specifications of T49

Test case Specification Identifier	T49
Purpose	To check the functionality of 'apply for admission'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T1, T3, T52 test cases must be executed prior to the current test case execution.
Input Specifications	A picture by clicking 'Choose file' button with 300x450 pixels in JPG/JPEG format
Test Procedure	click 'Choose file' button and then choose a file(img.JPEG) from directory and click 'submit' button
Output Specifications	Page will refresh and show that file(img.JPEG) is uploaded and prompt user to fill up the Name of applicant field

Table 50: Test specifications of T50

Test case Specification Identifier	T50
Purpose	To check the functionality of 'Apply for admission'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T49 test cases must be executed prior to the current test case execution.
Input Specifications	Name of applicant: Eusha Kadir fathers name: some name Mothers name: some name email: abc@gmail.com Phone: +8801973719478 Date of birth: 10/25/1990 Nationality: Bangladeshi Permanent address: some address Academic career(school, college, year, grades)
Test Procedure	Type the inputs and press submit button
Output Specifications	Prompt message that successfully applied

Table 51: Test specifications of T51

Test case Specification Identifier	T51
Purpose	To check the functionality of 'Apply for admission'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T49 test cases must be executed prior to the current test case execution.
Input Specifications	Email : ghdhsa agdhg
Test Procedure	Type the inputs and press submit button
Output Specifications	Prompt error message of Invalid input

Table 52: Test specifications of T52

Test case Specification Identifier	T52
Purpose	To check the functionality of 'Apply for admission'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T49 test cases must be executed prior to the current test case execution.
Input Specifications	Phone(invalid) like below: +8827437562 +88jhj335646
Test Procedure	Type the inputs and press submit button
Output Specifications	Prompt error message of Invalid input

Table 53: Test specifications of T53

Test case Specification Identifier	T53
Purpose	To check the functionality of 'Apply for admission'
Test Items Needed	Refer Usecase-1.2 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	T49 test cases must be executed prior to the current test case execution.
Input Specifications	Applicant ID: 1,2,3,4
Test Procedure	Type the inputs and press search button
Output Specifications	Show the application form submitted by the applicant

Test design specification (Subsystem: Result generation system)

S. No	Functionality	Use case no in SRS	Test cases
20	New course addition	1.3	T54, T55, T56, T57
21	Teacher-course managing	1.3	T58
22	Student Allocation	1.3	T59

Reference Usecases (Subsystem: Course management system)

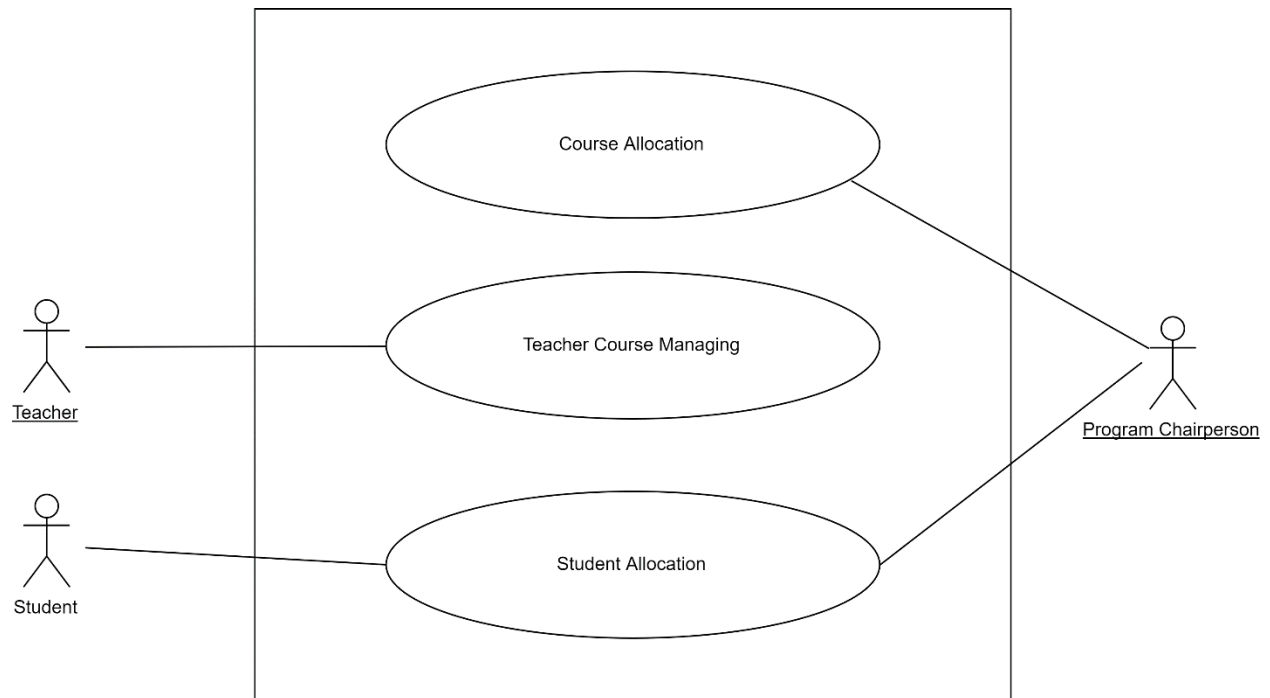


Figure 6: Usecase Level-1.3-Result generation system

Test specifications (Subsystem: Result generation system)

Table 54: Test specifications of T54

Test case Specification Identifier	T54
Purpose	To check the functionality of 'Course Management'- New course addition
Test Items Needed	Refer Usecase-1.3 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Year: (4 characters, numeric) Sample Year: 2020
Test Procedure	Log in as Program Chair and go to Dashboard Action -> View Course -> Add new course Fill up Required Input Choose random Course and Instructor Click "Add"
Output Specifications	Show new course with exactly the provided input

Table 55: Test specifications of T55

Test case Specification Identifier	T55
Purpose	To check the functionality of 'Course Management'- New course addition
Test Items Needed	Refer Usecase-1.3 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Year: Less than 4 characters Sample Year: 20
Test Procedure	Log in as Program Chair and go to Dashboard Action -> View Course -> Add new course Fill up Required Input Choose random Course and Instructor Click "Add"
Output Specifications	Shows invalidity of input

Table 56: Test specifications of T56

Test case Specification Identifier	T56
Purpose	To check the functionality of 'Course Management'- New course addition
Test Items Needed	Refer Usecase-1.3 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Year: More than 4 characters Sample Year: 202020
Test Procedure	Log in as Program Chair and go to Dashboard Action -> View Course -> Add new course Fill up Required Input Choose random Course and Instructor Click "Add"
Output Specifications	Shows invalidity of input

Table 57: Test specifications of T57

Test case Specification Identifier	T57
Purpose	To check the functionality of 'Course Management'- New course addition
Test Items Needed	Refer Usecase-1.3 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be matched should be in running condition.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Year: Non-numeric characters Sample Year: tbT_
Test Procedure	Log in as Program Chair and go to Dashboard Action -> View Course -> Add new course Fill up Required Input Choose random Course and Instructor Click "Add"
Output Specifications	Shows invalidity of input

Table 58: Test specifications of T58

Test case Specification Identifier	T58
Purpose	To check the functionality of 'Course Management'- Teacher Course Managing
Test Items Needed	Refer Usecase-1.3 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	T54
Input Specifications	-
Test Procedure	Login as Teacher (Instructor of T54) -> Go to Dashboard Action -> View Courses
Output Specifications	Show list of courses with the latest one (Course from T54) included

Table 59: Test specifications of T59

Test case Specification Identifier	T59
Purpose	To check the functionality of 'Course Management'- Student Allocation
Test Items Needed	Refer Usecase-1.3 in SRS
Special Environmental	Internet should be in working condition. Database software through which the data will be inserted should be in running condition. User's browser should be running properly.
Special Procedural Requirements	-
Inter-case Dependencies	-
Input Specifications	Choose course 201
Test Procedure	Login as Program Chair -> Go to Dashboard Action -> View Courses Choose course -> Add New Students
Output Specifications	Show list of students with PGD 104 done