



American International University-Bangladesh (AIUB)

Department of Computer Science
Faculty of Science & Technology (FST)

Fall20-21

Section: A

Software Quality Assurance and Testing

Student Management System for AIUB

A Report submitted
By

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Revision History

Revision	Date	Updated by	Update Comments
0.1	2020.12.31	Mahbubur Rahman	First Draft
0.2	2020.12.31	Shafin Talukder	Second Draft
0.3	2020.12.31	Arshad Hassan Aywon	Third Draft
0.4	2020.12.31	Habiba Nasreen	Fourth Draft

✓ TEST PLAN IDENTIFIER: [AIUB-SMSV1.0](#)

✓ INTRODUCTION

Background to the Problem

- A popular website needs to be updated all the time. A website of a university is full of resources that need to be tracked and recorded systematically. If data are updated but not recorded properly, this will affect the whole system by losing necessary information.
- In a university a lot of students are enrolled. It is extremely important to secure their data and keep track on their activities so that the information does not get exchanged since this will be problematic for both the management and students and eventually it will cause them hamper.

Solution to the Problem

- This is the MTP for just Student Management System for AIUB. This test plan will address just those components that are identified with the students' data, both straightforwardly and in a roundabout way influenced components will be tended to. The essential focal point of this plan is to guarantee that Management will keep all the records of the undergraduates.
- The website being specified has features such as login, dashboard, registration, courses and results, grade reports, academic etc. Students can see, perform tasks and the data are recorded.
- To describe the objectives, scope, approach, resources, schedule and focus of software testing activities in a systematic approach is important. And it is essential to check if the requirements are fulfilled and information is understood in detail. System will keep all the records of the students such as-
 1. First Name
 2. Last Name
 3. Student ID
 4. Gender
 5. Address
 6. Department

7. Phone number
8. Email

REQUEIREMNT SPECIFICATION

- ***System Features***

- 1. System Login**

- 1.1 The website shall allow users to login with their given username and password
- 1.2 If the username and/or password has been inserted wrong for more than three times, captcha code will be generated by the system to retry login.

Priority Level: High

Precondition: user has valid user id and password

- 2. Registration**

- 2.1 User should be able to see student id, name, cgpa and credit completed.
- 2.2 Clicking 'Next' should allow the user to select (tick/untick) courses.
- 2.3 User shall show registered sections, assessment and confirm registration.

Priority Level: Medium

Precondition: user must login

- 3. Profile**

- 3.1 User shall see the profile with respective name and other information like ID, cgpa, credit, program, department, core, major etc.

Priority Level: High

Precondition: user must login

- 4. Academics**

- 4.1 User shall see courses and results, registration, drop application, offered courses, my curriculum and financials.

Priority Level: Low

Precondition: user must login

- 5. Grade Reports**

- 5.1 User shall check current or previous grade report either by curriculum or by semester.

Priority Level: High

Precondition: user must login

- 6. Others**

- 6.1 User shall click applications, parking applications and download forms.

Priority Level: Low

Precondition: user must login

- 7. Messages**

- 7.1 User should be able to check mail box.

Priority Level: Low

Precondition: user must login

8. Courses and Results

8.1 User shall to see grade mark quizzes of both mid and final term.

8.2 User shall download and upload document there.

Priority Level: Medium

Precondition: user must login

9. Grade Report

9.1 User should be able to see curriculum grade report of core and elective curriculum.

Priority Level: High

Precondition: user must login

10. Notifications

10.1 User should be able to see and check the notes and notices sent from the faculties.

Priority Level: Medium

Precondition: user must login

11. Setting

11.1 User should be able to change the password of the portal

Priority Level: Low

Precondition: user must login

12. Logout

12.1 User should be able to logout and get back to login page.

Priority Level: High

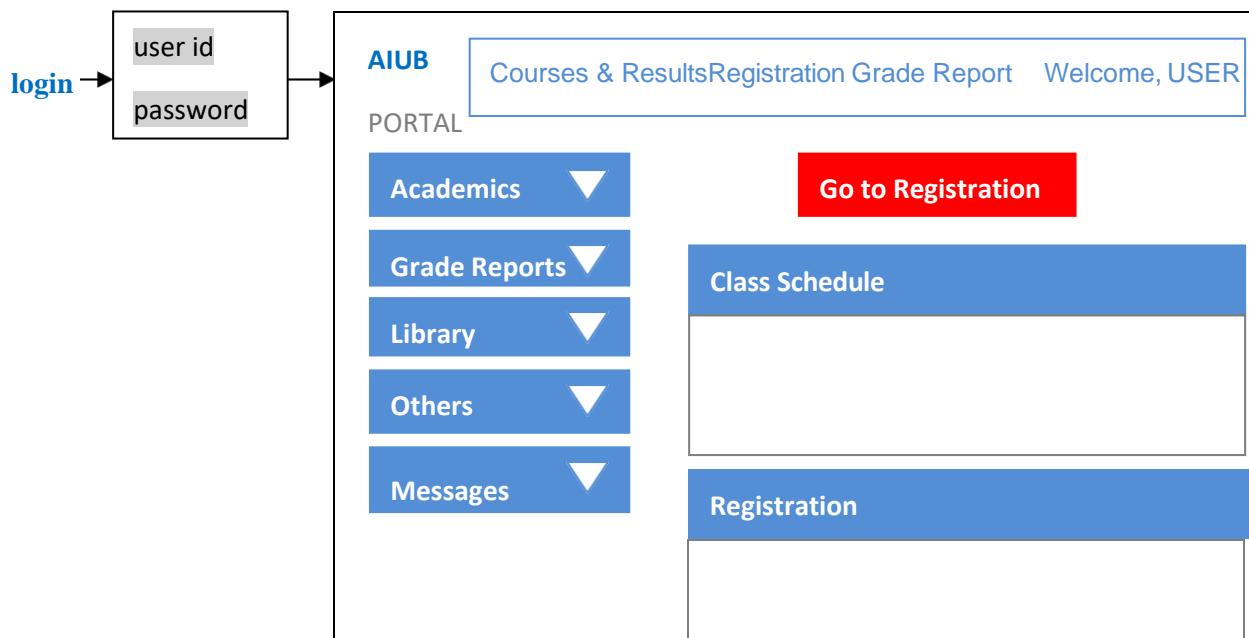
Precondition: user must login

• SYSTEM QUALITY ATTRIBUTES

1. Usability: A trained user shall be able to submit a complete request for a chemical selected from a vendor catalog in an average of four and a maximum of six minutes.
2. Maintainability: A maintenance programmer shall be able to modify existing reports to conform to revised chemical-reporting regulations from the federal government with 20 labor hours or less of development effort.
3. Efficiency: At least 25 percent of the processor capacity and RAM available to the application shall be unused at the planned peak load conditions.
4. Reliability: No more than five experimental runs out of 1000 can be lost because of software failures.

5. Integrity/Security: Only users who have Auditor access privileges shall be able to view customer transaction histories.
6. Interoperability: The Chemical Tracking System shall be able to import any valid chemical structure from the ChemiDraw (version 2.3 or earlier) and Chem-Struct (version 5 or earlier) tools.
7. Reusability: The chemical structure input functions shall be designed to be reusable at the object code level in other applications that use the international standard chemical structure representations.
8. Flexibility: A maintenance programmer who has at least six months of experience supporting this product shall be able to make a new copy output available to the product, including code modifications and testing, with no more than one hour of labor.
9. Testability: The maximum cyclomatic complexity* of a module shall not exceed 20.

- **System Interface**



- **PROJECT REQUIREMENTS**

- Total budget: None (project practice purpose)
- Total Development Time: 1 month

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:

- PC based spreadsheet analysis applications using Reassigned Sales data. Because these applications are completely under the control of the customer and are outside the scope of this project. The necessary data base format information will be provided to the customers to allow them to extract data. Testing of their applications is the responsibility of the application maintainer/developer.
 - Networks
 - Hardware
 - Student's personal information (grade, cgpa and financials)
-
- **TESTING APPROACH**

1. Testing Levels

- The testing for the web based project, SMS will consist of Unit, System/Integration (combined) and Acceptance test levels. It is hoped that there will be at least one full time independent test person for system/integration testing. However, with the budget constraints and timeline established; most testing will be done by the test manager with the development teams' participation.
- UNIT Testing will be done by the developer and will be approved by the development team leader. Proof of unit testing (test case list, sample output, data printouts, defect information) must be provided by the programmer to the team leader before unit testing will be accepted and passed on to the test person. All unit test information will also be provided to the test person.
- SYSTEM/INTEGRATION Testing will be performed by the test manager and development team leader with assistance from the individual developers as required. No specific test tools are available for this project. Programs will enter into System/Integration test after all critical defects have been corrected. A program may have up to two Major defects as long as they do not impede testing of the program (I.E. there is a work around for the error).
- ACCEPTANCE Testing will be performed by the actual end users with the assistance of the test manager and development team leader. The acceptance test will be done in parallel with the existing manual ZIP/FAX process for a period of one month after completion of the System/Integration test process.

2. Test Tools

The only test tools to be used are the standard AS/400 provided utilities and commands.

- The Program Development Manager (PDM) will be used as the source version configuration management tool in conjunction with the in-house check-in/check-out control utility. The checkin/out utility is part of each developer's standard AS/400 access menu.

- The initial prototypes for the new screens will be developed using the AS/400 Screen Design Aid (SDA). The initial layout and general content of the screens will be shown to the sales administration staff prior to proceeding with testing and development of the screens.
- Microsoft Word (Test Cases)

3. Meetings

The test team will meet once every two weeks to evaluate progress to date and to identify error trends and problems as early as possible. The test team leader will meet with development and the project manager once every two weeks as well. These two meetings will be scheduled on different weeks. Additional meetings can be called as required for emergency situations.

✓ TEST CASES/TEST ITEMS

Test case-01

Project Name: Student Management System		Test Designed by: Shafin Talukder		
Test Case ID: AIUB_01		Test Designed date: 30/12/2020		
Test Priority (Low, Medium, High): High		Test Executed by: Shafin Talukder		
Module Name: Login Session		Test Execution date: 30/12/2020		
Test Title: Verify login with valid username and password				
Description: Test website login page				
Precondition (If any): User must have valid username and password and visit Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter username 3. Enter password 4. Click “Login”	Username: 12-34567-8 Password: 12345	User should login into the application	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

Test case-02

Project Name: Student Management System	Test Designed by: Shafin Talukder		
Test Case ID: AIUB_02	Test Designed date: 30/12/2020		
Test Priority (Low, Medium, High): High	Test Executed by: Shafin Talukder		
Module Name: Login Session	Test Execution date: 30/12/2020		
Test Title: verify login with valid username and password.			
Description: Test website login page			
Precondition (If any): User must have valid username and password and visit Index (aiub.edu)			
Test Steps	Test Data	Expected Results	Actual Results
1. Go to the website 2. Enter username 3. Enter password 4. Click Login	Username: 12-34567-8 Password: Random	Brings to a page titled “Invalid username or password. Make sure you typed the user ID assigned to you by your organization. It usually looks like XX-XXXXX-X or XXXX-XXX-X. And check to make sure you typed the correct password.”	As expected
Post Condition	: None		

Test case-03

Project Name: Student Management System		Test Designed by: Shafin Talukder		
Test Case ID: AIUB_03		Test Designed date: 30/12/2020		
Test Priority (Low, Medium, High): High		Test Executed by: Shafin Talukder		
Module Name: Click on " Can't access your account? "		Test Execution date: 30/12/2020		
Test Title: Clicking on " Can't access your account? "				
Description: Test the AIUB portal.				
Precondition (If any): User must have valid username and visit Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Clicking on " Can't access your account? " 2. Check the title of the page	Username: 12-34567-8	Brings to a page titled "Reset Password" with information of captcha.	A page titled "Reset Password" contains information of captcha.	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

Test case-04

Project Name: Student Management System		Test Designed by: Shafin Talukder		
Test Case ID: ST_04		Test Designed date: 30/12/2020		
Test Priority (Low, Medium, High): High		Test Executed by: Shafin Talukder		
Module Name: Homepage Session		Test Execution date: 30/12/2020		
Test Title: verify login with valid username and password.				
Description: Test website Homepage				
Precondition (If any): User must have valid username and password and visit Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Enter username 3. Enter password 4. Click Login	Username: 12-34567-8 Password: 12345	Brings to a page titled “AIUB PORTAL” with information about academics, grade reports, library, others, messages, notifications, settings and class schedules	As expected	Passed
Post Condition: User is validated with database and successfully get into the homepage. The account session details are logged in the database.				

Test Case-05

Project Name: Student Management System	Test Designed by: Mahbubur Rahman			
Test Case ID: AIUB_05	Test Designed date: 30/12/2020			
Test Priority (Low, Medium, High): Medium	Test Executed by: Mahbubur Rahman			
Module Name: Courses & Results	Test Execution date: 30/12/2020			
Test Title: Check Courses & Results in AIUB student portal				
Description: Test the Courses & Results				
Precondition: Should be logged in Homepage (https://portal.aiub.edu/Student)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on ‘Courses & Results’ in Homepage	None	Should contain a title ‘Grade marks Quizes’ and have Courses , Semesters, information about individual course result of the user	As expected	Pass
Post Condition: User is validated with database and provided marks which is illustrated successfully				

Test Case-06

Project Name: Student Management System	Test Designed by: Mahbubur Rahman			
Test Case ID: AIUB_06	Test Designed date: 30/12/2020			
Test Priority (Low, Medium, High): Medium	Test Executed by: Mahbubur Rahman			
Module Name: Registration	Test Execution date: 30/12/2020			
Test Title: Check Registration in AIUB student portal				
Description: Test the Registration				
Precondition: Should be logged in Homepage (https://portal.aiub.edu/Student)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Registration' in Homepage	None	Should contain a title 'Registration' along with the information of registered courses and fees of particular semester	As expected	Pass
Post Condition: User is validated with database and printout paper comes out with user information of courses and fees.				

Test Case-07

Project Name: Student Management System	Test Designed by: Mahbubur Rahman			
Test Case ID: AIUB_07	Test Designed date: 30/12/2020			
Test Priority (Low, Medium, High): Medium	Test Executed by: Mahbubur Rahman			
Module Name: Grade Report	Test Execution date: 30/12/2020			
Test Title: Check Grade Report in AIUB student portal				
Description: Test the Grade Report				
Precondition: Should be logged in Homepage (https://portal.aiub.edu/Student)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Grade Report' in Homepage	None	Should contain a title 'Curriculum Grade Report', have a print option and information about Core and Elective Curriculum of the user	As expected	Pass
Post Condition: None				

Test Case-08

Project Name: Student Management System	Test Designed by: Mahbubur Rahman			
Test Case ID: AIUB_08	Test Designed date: 30/12/2020			
Test Priority (Low, Medium, High): High	Test Executed by: Mahbubur Rahman			
Module Name: Welcome (USER NAME)	Test Execution date: 30/12/2020			
Test Title: Check Welcome (USER NAME) in AIUB student portal				
Description: Test the Welcome (USER NAME)				
Precondition: Should be logged in as RAHMAN, MAHBUBUR at https://portal.aiub.edu/Student				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Welcome RAHMAN, MAHBUBUR' in Homepage	None	Should contain a title 'RAHMAN, MAHBUBUR' and have information about logged student, a picture of logged student	As expected	Pass
Post Condition: None				

Test Case-09

Project Name: Student Management System	Test Designed by: Habiba Nasreen			
Test Case ID: AIUB_09	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Low	Test Executed by: Habiba Nasreen			
Module Name: Academics	Test Execution date: 31/12/2020			
Test Title: Check Academics in AIUB student portal				
Description: Test Academics				
Precondition: Must log in with valid user id and password. Should log in Homepage Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Academics'	None	Should contain a list of Courses & Results, Registration, Drop Application, Offered Courses, My Curriculum and Financials.	As expected	Pass
Post Condition: Upon clicking any option, information of respective students are shown that are related to database.				

Test Case-10

Project Name: Student Management System	Test Designed by: Habiba Nasreen			
Test Case ID: AIUB_10	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Medium	Test Executed by: Habiba Nasreen			
Module Name: Grade Reports	Test Execution date: 31/12/2020			
Test Title: Check Grade Reports in AIUB student portal				
Description: Test Grade Reports				
Precondition: Must log in with valid user id and password. Should log in Homepage Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Grade Reports'	None	Should contain By Curriculum and By Semester	As expected	Pass
Post Condition: User is validated with database and the grade report of respective students is shown.				

Test Case-11

Project Name: Student Management System	Test Designed by: Habiba Nasreen			
Test Case ID: AIUB_11	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Low	Test Executed by: Habiba Nasreen			
Module Name: Library	Test Execution date: 31/12/2020			
Test Title: Check Library in AIUB student portal				
Description: Test Library				
Precondition: Must log in with valid user id and password. Should log in Homepage Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Library'	None	Should contain Search Book, Current Borrows, Borrow History, Financial, UGC Digital Library, SAGE, Research4Life	As expected	Pass
Post Condition: User is validated with database and current/past borrowing of books is listed.				

Test Case-12

Project Name: Student Management System	Test Designed by: Habiba Nasreen			
Test Case ID: AIUB_12	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Low	Test Executed by: Habiba Nasreen			
Module Name: Others	Test Execution date: 31/12/2020			
Test Title: Check Others in AIUB student portal				
Description: Test Others				
Precondition: Must log in with valid user id and password. Should log in Homepage Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Others'	None	Should Applications, Parking Applications and Download Forms	As expected	Pass
Post Condition: User is validated with database and downloaded forms, applications can be accessed.				

Test Case-13

Project Name: Student Management System	Test Designed by: Arshad Hassan			
Test Case ID: AIUB_13	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Low	Test Executed by: Arshad Hassan			
Module Name: Messages	Test Execution date: 31/12/2020			
Test Title: Check Messages in AIUB student portal				
Description: Test Messages				
Precondition: Must log in with valid user id and password. Should log in Homepage Index aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Messages'	None	Should contain Mail Box	As expected	Pass
Post Condition: User is validated with database and messages in inbox, sent, draft and trash are shown.				

Test Case-14

Project Name: Student Management System	Test Designed by: Arshad Hassan			
Test Case ID: AIUB_14	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Medium	Test Executed by: Arshad Hassan			
Module Name: Notifications	Test Execution date: 31/12/2020			
Test Title: Check Notifications in AIUB student portal				
Description: Test Notifications				
Precondition: Must log in with valid user id and password. Should log in Homepage Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Notifications'	None	Should list down all the notes and notices sent by faculties	As expected	Pass
Post Condition: User can see other notifications through 'See All'				

Test Case-15

Project Name: Student Management System	Test Designed by: Arshad Hassan			
Test Case ID: AIUB_15	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): Low	Test Executed by: Arshad Hassan			
Module Name: Settings	Test Execution date: 31/12/2020			
Test Title: Check Settings in AIUB student portal				
Description: Test Settings				
Precondition: Must log in with valid user id and password. Should log in Homepage Index aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Settings'	None	Should contain Change Password	As expected	Pass
Post Condition: User can change password				

Test Case-16

Project Name: Student Management System	Test Designed by: Arshad Hassan			
Test Case ID: AIUB_16	Test Designed date: 31/12/2020			
Test Priority (Low, Medium, High): High	Test Executed by: Arshad Hassan			
Module Name: Logout	Test Execution date: 31/12/2020			
Test Title: Check Logout in AIUB student portal				
Description: Test Logout				
Precondition: Must log in with valid user id and password. Should log in Homepage Index (aiub.edu)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on 'Logout'	None	Should log out the user from the portal and bring back to login page	As expected	Pass
Post Condition: None				

✓ ITEM PASS/FAIL CRITERIA

The test process will be completed once the initial set of distributors have successfully sent in reassigned sales data for a period of one month and the new EDI data balances with the old ZIP/FAX data received in parallel. When the sales administration staff is satisfied that the data is correct the initial set of distributors will be set to active and all parallel stopped for those accounts.

✓ TEST DELIVERABLES

- Test Deliverables are the artefacts which are given to the stakeholders of software project during the software development lifecycle. There are different test deliverables at every phase of the software development lifecycle. Acceptance test plan o System/Integration test plan o Unit test plans/turnover documentation o Screen prototypes o Report mock-ups
- Defect/Incident reports and summaries
- Test logs and turnover reports
- Test Environment (Hardware and Database are required)
- Test Cases
- Test Data Sets
- Test Strategy
- Test Defect Reports
- Test Results

✓ STAFFING AND TRAINING NEEDS

At least one (1) full time tester can be assigned to the project for the system/integration and acceptance testing phases of the project. This will require assignment of a person part time at the beginning of the project to participate in reviews etc... and approximately four months into the project they would be assigned full time. If a separate test person is not available the project manager/test manager will assume this role.

In order to provide complete and proper testing the following areas need to be addressed in terms of training.

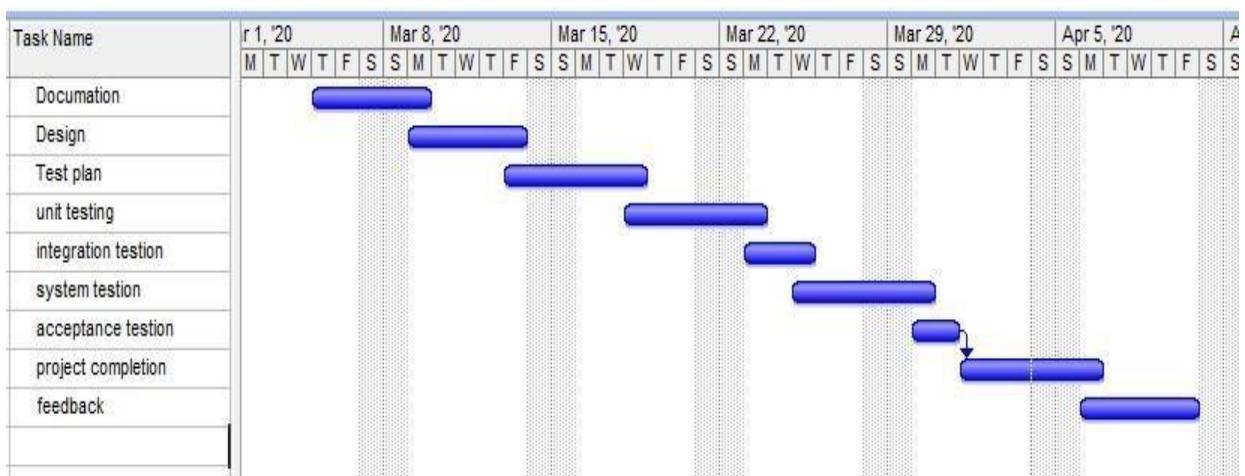
- ✓ The developers and tester(s) will need to be trained on the basic operations of the EDI interface. Prior to final acceptance of the project the operations staff will also require complete training on the EDI communications process.
- ✓ The Test manager and Project Manager needs to collaborate with a administration personnel and train on the inner working of a course allocation flow and learn about available courses and prerequisite course needs. [Later more staff and training facilities will be added based on the earlier portion of this test plan document]

✓ RESPONSIBILITIES

	TM	PM	Dev Team	Test Team	Client
Acceptance test Documentation & Execution	X	X		X	X
System/Integration test Documentation & Exec.	X		X	X	
Unit test documentation & execution	X		X	X	
System Design Reviews	X	X	X	X	X
Detail Design Reviews	X	X	X	X	
Test procedures and rules	X	X	X	X	
Screen & Report prototype reviews			X	X	X
Change Control and regression testing	X	X	X	X	X

✓ TESTING SCHEDULE

Time has been allocated within the project plan for the following testing activities. The specific dates and times for each activity are defined in the project plan timeline. The persons required for each process are detailed in the project timeline and plan as well. Coordination of the personnel required for each task, test team, development team, management and customer will be handled by the project manager in conjunction with the development and test team leaders.



✓ PLANNING RISKS AND CONTINGENCIES

- Requirements may get changed or updated. User (students) cannot edit name, ID but there is no provision on Gender, Email, Department or Address. To maintain correct data accusation and for administration to send messages and emails to students those needs to be only editable by some administration so that the update is recorded each time. It will require a 3rd user type as data entry personnel. This will result the delivery dates to be postponed. To avoid that the developer team can make the arrangements ahead. [Later more possible risks and contingency plans will be added based on the earlier portion of this test plan document]
- Limited Reassigned Sales staff. The Reassigned Sales administration staff currently has two positions unfilled. As a result of this staff shortage there may be delays in getting staff to review appropriate documents and to participate in the Acceptance test process. Should client staff become a problem, the appropriate dates for reviews and acceptance testing will slip accordingly. No attempt will be made to bypass any part of the review and testing processes.

✓ APPROVALS

Approval	Personnel
Documentation and Execution	Test manager then project manager
System Structure	Development Team Leader and Project Manager
Acceptance testing	Project Manager and Test Manager
Unit testing	Test Manager
Test Procedures and rules	Project manager and Test Manager
Validation of data	Administration Personnel
Final Project completion	Project Manager then Test Manager then administration personnel
User Interface Review	Test Manager then Development Team then client

✓ GLOSSARY:

Definition of some terms that are used in this test plan to avoid confusion:

AIUB	American International University - Bangladesh
OSRS	Online Student Registration System
MTP	Master Test Plan
SDLC	Software Development Life Cycle
PM	Project Manager
TM	Test Manager
SMS	Student Management System
QA	Quality Assurance