**Developing a Test Plan for Alumni Management System of AIUB**

**TEST PLAN IDENTIFIER:**

AIUB-AMSV1.0

**REFERENCES:**

None Identified.

**PROJECT BACKGROUND:**

Graduation is the end of the relationship with the university. As a fresh graduate it is difficult to find job as they have no real world experience and no knowledge about interview skills. In this situation, Alumni network has a real life benefit for current students. Alumni also donate their valuable time to offer career support to current students. But there are no system or software that maintain the relationship with the alumni easily. Existing system was manual.

**PROPOSED SOLUTION:**

To reduce this problem , Alumni website is created for the students that have graduated from the Institution. This is a web based application that allows former students to take advantage of the benefits and services that an Institution offers after graduation. The alumni network is becoming important in the development of the institution because of their vast potential that benefits both the Institution and the students. There are many benefits for being an alumni member of a university, some of these benefits are: keeping a person inform on the events that are organized by the Institution, and when some important events will be holding in the Institution. Another benefit is that information concerning a former student can easily be received and other members of the alumni community can be located without much stress. The main user are the students and alumni. By using this they can communicate each other. It is possible to implement the system in real life .

The advantage of the proposed system

* Keeping information about the alumni.
* Communication between the teacher and students
* Friends can stay in touch among themselves forever
* Organizing alumni functions and get together in an easy way
* An official seeking information about any student for any official work will be easy

**System will keep all the records of the alumni such as their :**

1. First Name

2. Last Name

3. Student ID

4. Gender

5. Address

6. Department

7. Phone number

8. Email

9.Graduation Year

10.Current job status

11. Degrees obtained

**Functional Requirements:**

1. Admin shall be able to create his own account
2. Alumni shall be able to sign up account
3. Those who have account shall be able to login and logout their accounts.
4. Alumni shall be able to insert ,update and delete required information (name, address, phone number, email, job status, degree).
5. Admin shall be able to manage all the accounts
6. Password that is provided should be matched given in the database.
7. Admin and alumni shall be able to change their password and edit information.
8. Admin or alumni cannot try wrong password more than three times, if he try more than three times his or her account will be forfeited.
9. General user shall only be able to View alumni records and contact alumni.
10. If any user forgets his username/password then a verification code will be given to his mail.

**NonFunctional Requirements:**

1The system shall be at least 99.5 percent available on weekdays between 6:00 a.m. and midnight local time, and at least 99.95 percent available on weekdays between 9:00 a.m. and 6:00 p.m. local time.

2. A maintenance programmer who has at least six months of experience supporting this product shall be able to make a new hardcopy output device available to the product, including code modifications and testing, with no more than one hour of labor.

3. No more than five experimental runs out of 1000 can be lost because of software failures.

4. If the editor fails before the user saves the file, the editor shall be able to recover all changes made in the file being edited up to one minute prior to the failure the next time the same user starts the program.

5.If anyone tries to login from any other device rather than he usually uses or a new device then a notification will go to his email.

6. The input functions shall be designed to be reusable at the object code level in other applications .

7.Every Web page shall download in 15 seconds or less over a 50 KBps modem connection

**SOFTWARE RISK ISSUES:**

Several parts of the project are not within the control but have direct impacts on the process and must be checked as well.

1. Interruption of third party software.

2. Errors while doing login.

3. Errors while updating information..

3. Backup and Recovery of the EDI transmission files, local databases and restart of the translation process, must be carefully checked.

5. Database security and access must be defined and verified.

**Admin and Alumni:**

1. Password that is provided should be matched

2. Validate the alumni’s information

3. cannot try wrong password more than three times, if he try more than three times his or her account will be forfeited.

4.Availability of the system

5. change password

4.edit information

5.notify through email in case of forget password

**General:**

Availability of the system

4. **FEATURES NOT TO BE TESTED:**

1. Networks

2. Hardware

3. Alumni’s Information (Name, Address, Contact number etc.)

**APPROACH:**

The testing for a robust web-based system for student and faculty management will consist of Unit, System/Integration (combined) and Acceptance test levels.

1. System/integration testing will be done by the at least one full time developer.

2. Unit Testing will be done by the developer and will be approved by the development team leader.

3. Finding all the features are met the criteria or not.

4. All unit test information will also be provided to the test person.

5. System/Integration Testing will be performed by the test manager and development team leader

6. The system will enter in the System/Integration test after all critical defects have been corrected.

7. It will check that all the features are working correctly or not.

8. Acceptance Testing will be performed by the actual end users with the assistance of the test manager and development team leader.

9. The acceptance test will be done for a period of 20 days after completion of the System/Integration test process.

**Test Tools**

**1.** Microsoft word will be used to write test plans.

1. Microsoft Excel will be used to write test cases.

**Meetings**

The test team will meet once everyone week to evaluate progress to date and to identify errors trends and problems as early as possible. The test team leader will meet with development and the project manager once everyone week as well. Additional meetings can be called as required for emergency situations.

**Item Pass/Fail criteria**

If the software is accepted by the users and they are satisfied with the performance then he software will pass otherwise it will fail and have to check the software again.

**Suspension criteria:**

In general, testing will only stop if application becomes unavailable.

prerequisite course needs. [Later more staff and training facilities will be added based on the earlier portion of this test plan document]

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_101** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by:  **Tasnuva Razzaque** | | |
| **Module Name: Create Account for Admin** | | | Test Execution date: 12.7.19 | | |
| **Test Title: create account with valid username and password** | | |  | | |
| **Description: Test whether the account is created** | | |  | | |
| **Precondition: Admin has valid username and password**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **Click the create account option** 3. **Enter username** 4. **Enter password** 5. **Click ok** | Username:urs222  Password:765 | Admin should create an account | | As expected | Pass |
| **Post Condition: Admin has successfully created his account and the account session details are logged into the system.** | | | | | |

**TEST CASES:**

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_102** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Tasnuva Razzaque** | | |
| **Module Name: login session for Admin** | | | Test Execution date: 12.7.19 | | |
| **Test Title: verify login with valid username and password** | | |  | | |
| **Description: Test the system login page** | | |  | | |
| **Precondition: Admin has valid username and password**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| **Go to the site**   1. **Enter username** 2. **Enter password** 3. **Click submit** | Username:urs567  Password:8908 | Admin 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** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_103** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by:  **Tasnuva Razzaque** | | |
| **Module Name: Create Account for Alumni** | | | Test Execution date: 12.7.19 | | |
| **Test Title: create account with valid username and password** | | |  | | |
| **Description: Test whether the account is created** | | |  | | |
| **Precondition: Alumni has valid username and password**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **Click the create account option** 3. **Enter username** 4. **Enter password** 5. **Click ok** | Username:urs333  Password:675 | Alumni should create an account | | As expected | Pass |
| **Post Condition: Alumni has successfully created his account and the account session details are logged into the system.** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_104** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Tasnuva Razzaque** | | |
| **Module Name: login session for Alumni** | | | Test Execution date: 12.7.19 | | |
| **Test Title: verify login with valid username and password** | | |  | | |
| **Description: Test the system login page** | | |  | | |
| **Precondition: Alumni has valid username and password**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| **Go to the site**   1. **Enter username** 2. **Enter password** 3. **Click submit** | Username:urs777  Password:823 | Alumni should login into the application | | As expected | Pass |
| **Post Condition: Alumni is validated with database and successfully login to account. The account session details are logged in the database** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_107** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Tasnuva Razzaque** | | |
| **Module Name: Accessible from all device** | | | Test Execution date: 12.7.19 | | |
| **Test Title: Test user can login from other device** | | |  | | |
| **Description: Test the accessibility of the system from device** | | |  | | |
| **Precondition: user can access the system from any device** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. go to website from Mobile 2. go to website from Laptop/desktop |  | User should login from other device(i.e mobile, laptop,desktop) | | The test case failed | Failed |
| **Post Condition: User can log into the system from the desktop only** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_108** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Tasnuva Razzaque** | | |
| **Module Name: Accessable from all browser** | | | Test Execution date: 12.7.19 | | |
| **Test Title: Test user can login from all the browser** | | |  | | |
| **Description Test the accessibility of the system from browser** | | |  | | |
| **Precondition: user can access the system from any browser**  **Dependencies: if any** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. go to website from firefox 2. go to website from chrome |  | User should login from other browser(i.e firefox,chrome) | | As expected | Passed |
| **Post Condition: User can log into the system from all the browsers** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_109** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Tasnuva Razzaque** | | |
| **Module Name: Click on Home** | | | Test Execution date: 12.7.19 | | |
| **Test Title: Clicking on the ‘Home’ brings to Homepage** | | |  | | |
| **Description: Test whether the homepage opens after click** | | |  | | |
| **Precondition: user can open the homepage**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Click on the home Button. |  | User should open the homepage | |  |  |
| **Post Condition: All User has successfully viewed the homepage.** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Tasnuva Razzaque** | | |
| **Test Case ID: FR\_110** | | | Test Designed date: 12.7.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Tasnuva Razzaque** | | |
| **Module Name: Clicking on ‘General Information’ ( Only for Alumni)** | | | Test Execution date: 12.7.19 | | |
| **Test Title: Clicking on the ‘General Information’ shows Details Information** | | |  | | |
| **Description: Test whether the General Information button works or not** | | |  | | |
| **Precondition: Admin & Student can successfully view General Information**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Click on the General InformationButton. |  | User should view the General Information | |  |  |
| **Post Condition: Admin & Student has successfully viewed all the General Information of the alumni** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Dilruba Eva** | | |
| **Test Case ID: AMS\_501** | | | Test Designed date: 12.5.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Dilruba Eva** | | |
| **Module Name: Insert Session** | | | Test Execution date: 12.5.19 | | |
| **Test Title: Verifying Insert Information by name,address,mail etc.** | | |  | | |
| **Description: Test the insert option for alumni** | | |  | | |
| **Precondition: Alumni can successfully login to their account**  **Dependencies:** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **login** 3. **Insert informations(name,address,mail,ph no etc)** 4. **Click submit** | Name:mr.john  Address:xyz  Mail:xyz@gmail.com  Ph no:01700000000 | Alumni should be able to insert Information | |  |  |
| **Post Condition: Alimni has successfully inserted his/her information.** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Dilruba Eva** | | |
| **Test Case ID: AMS\_502** | | | Test Designed date: 12.5.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Dilruba Eva** | | |
| **Module Name: Update Session** | | | Test Execution date: 12.5.19 | | |
| **Test Title: Verifying update Information by name,address,mail etc.** | | |  | | |
| **Description: Test the update option for alumni** | | |  | | |
| **Precondition: Alumni can successfully login to their account and inserted informations.** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **login** 3. **Update informations(name,address,mail,ph no etc)** 4. **Click submit** | Name:mr.hasan  Address:abc  Mail:abc@gmail.com  Ph no:01711111111 | Alumni should be able to update Information | |  |  |
| **Post Condition: Alimni has successfully updated his/her information.** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Dilruba Eva** | | |
| **Test Case ID: AMS\_503** | | | Test Designed date: 12.5.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Dilruba Eva** | | |
| **Module Name: Delete Session** | | | Test Execution date: 12.5.19 | | |
| **Test Title: Verifying delete Information by name,address,mail etc.** | | |  | | |
| **Description: Test the delete option for alumni** | | |  | | |
| **Precondition: Alumni can successfully login to their account and inserted informations.** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **login** 3. **delete informations(name,address,mail,ph no etc)** 4. **Click submit** | Name:mr.hasan  Mail:abc@gmail.com  Ph no:01711111111 | Alumni should be able to delete Information | |  |  |
| **Post Condition: Alimni has successfully deleted his/her information.** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Dilruba Eva** | | |
| **Test Case ID: AMS\_504** | | | Test Designed date: 12.5.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Dilruba Eva** | | |
| **Module Name: Change Password Session** | | | Test Execution date: 12.5.19 | | |
| **Test Title: Verifying changing password** | | |  | | |
| **Description: Test the change password option for admin and alumni** | | |  | | |
| **Precondition: Admin and alumni can successfully login to their account** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **login** 3. **go to change password option** 4. **set new password** 5. **Click submit** | Old password:\*\*\*  New password:### | Alumni should be able to change password | |  |  |
| **Post Condition: Alumni and admin have successfully changed the password.** | | | | | |

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| **Project Name: Alumni management system of AIUB** | | | **Test Designed by: Dilruba Eva** | | |
| **Test Case ID: AMS\_505** | | | Test Designed date: 12.5.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: **Dilruba Eva** | | |
| **Module Name: Forget Password Session** | | | Test Execution date: 12.5.19 | | |
| **Test Title: Verifying forget password facilitiess** | | |  | | |
| **Description: Test the forget password option for admin and alumni** | | |  | | |
| **Precondition: Admin and alumni can successfully create their account** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **login** 3. **go to forget password option** 4. **go to the given mail** 5. **click on the verification link** 6. **Click submit** | Mail:abc@gmail.com | Alumni should be able to login to account by verification mail | |  |  |
| **Post Condition: Alumni and admin have successfully login to the account through verification mail.** | | | | | |

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| **Project Name: Alumni Management System** | | | **Test Designed by: Dilruba Eva** | | |
| **Test Case ID: AMS-506** | | | Test Designed date: 12.5.19 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Dilruba Eva | | |
| **Module Name: Logout session** | | | Test Execution date: 12.5.19 | | |
| **Test Title: verify logout option** | | |  | | |
| **Description: Test the website login page** | | |  | | |
| **Precondition: Admin has valid username and password**  **Dependencies: none** | | | | | |
| **Test Steps** | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. **Go to the site** 2. **Login** 3. **Click on logout** 4. **submit** |  | User should logout from the application | |  |  |
| **Post Condition: User has successfully logged out from the account.** | | | | | |

**Test Deliverables:**

Test Deliverables are the artifacts 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.

1.Test Plan

2. Test Environment

3. Test Cases

4. Test Data Sets

5. Test Strategy

6. Test Defect/Bug Reports

7. Test Results

8. Test Evaluation Report

9. Execution log files

10. Summary

**Staff and Training Needs:**

**Staff Needs**:

During the 1st quarter of the project the project/test manager can play the role of a full time test engineer with a part time test engineer to assist with the review and initial planning of the project. After the initial build has been done, the validation and verification testing needs 2 full time tester and one of them needs to be the person connected with project from the inception as assisting tester.

**Training Needs :**

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]

**Schedule:**

. This portioned will be created after the completion of other portions of the document in form of a Work back ground Structure and with a Gantt chart.

**Planning Risks and Contingencies:**

The requirement may be changes or updated. The Student user cannot edit Name and 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. Which requires a 3rd user type as data entry personnel. Which 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]

**Approvals:**

**Md. Nasir Hossain**  
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