

American International University-Bangladesh (AIUB)  
Department of Computer Science  
Faculty of Science &Technology (FST)  
Summer 21 22

Section: A/ B/ E  
Software Quality Assurance and Testing

PROJECT TITLE

A Report submitted

By

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Under the supervision of

Faculty Name

Faculty Designation

Software Test Plan

for

<Project>

Version 1.0 approved

Prepared by <author>

<organization>

<date created>

**Checked By Industry Personnel**

Name:

Designation:

Company:

Sign:

Date:

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# Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Date | Updated by | Update Comments |
| 0.1 | 2007.06.04 | Scot Robinson | First Draft |
| 0.2 | 2007.06.19 | Amit Nimse |  |
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# TEST PLAN IDENTIFIER:RS-MTP01.3

# REFERENCES

* Any reference documents with the test plan. For example: Software Requirement Specification (SRS) Document

# INTRODUCTION

## Background to the Problem

* Write the background description that helps putting the project into the right context of a problem domain and gives everyone involved a common view of the project
* What is the root cause of this problem? why is this problem is so important to consider?

## Solution to the Problem

* What are the solutions you are going to propose to deal with the problem? why is this   
   solution is particularly appropriate to solve the problem? Is the solution feasible to the   
   meet the business objective?
* Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals
* Existing studies presented in the problem area. What are the existing software solutions   
   are available to solve the aforementioned problem?

# REQUEIREMNT SPECIFICATION

## System Features

* List down the system functional requirements that describes the system’s functionalities
* Example  
  1. System Login  
  Functional Requirements
  1. The software shall allow users to login with their given username and password
  2. If the username and/or password has been inserted wrong for more than three times, the random verification code will be generated by the system to retry login.
  3. If the number of login attempt exceed its limit (5 times), the system shall block the user account login for one hour *[optional function]*

Priority Level: High  
Precondition: user have valid user id and password

## System Quality Attributes

* List down the quality attributes that describes how well the system should perform.
* Example:  
  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.*

## System Interface

* Draw the system interface where the users will interact with the system’s functionality.

## Project Requirements

* List down the project constraints (e.g. time, budget, resources, environment, etc.) that should be followed in the project management.
* Example: Total budget 3,60,000 BDT (Calculate proper budget estimation)  
   Total Development Time 1 year 3 months (Calculate proper time estimation)

# 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.

# TESTING APPROACH

## Testing Levels

* The testing for the SMS project 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.

## 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 check-in/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.

## Meetings

The test team will meet once in every week 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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Name: | | | Test Designed by: | | |
| Test Case ID: FR\_1 | | | Test Designed date: | | |
| Test Priority (Low, Medium, High): Medium | | | Test Executed by: | | |
| Module Name: Login Session | | | Test Execution date: | | |
| Test Title: verify login with valid username and password | | |  | | |
| Description: Test website login page | | |  | | |
| Precondition (If any): User must have valid username and password | | | | | |
| Test Steps | Test Data | Expected Results | | Actual Results | Status (Pass/Fail) |
| 1. Go to the website 2. Enter username 3. Enter password 4. Click submit | Username: 99999999999  Password: 321 | 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. | | | | | |

# 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

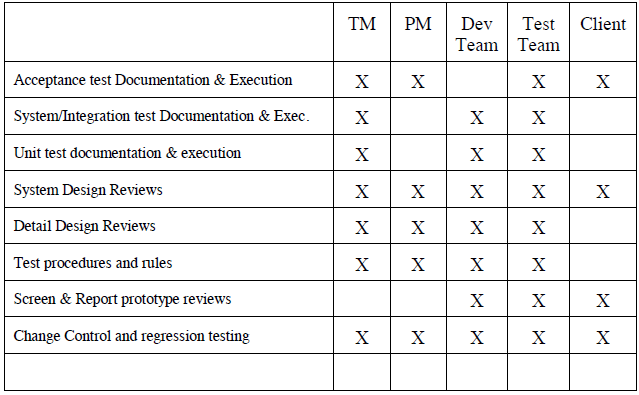
* Acceptance test plan
* System/Integration test plan
* Unit test plans/turnover documentation
* Screen prototypes
* Report mock-ups
* Defect/Incident reports and summaries
* Test logs and turnover reports

# STAFFING AND TRAINING NEEDS

It is preferred that there will be at least one (1) full time tester 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 sales administration staff will require training on the new screens and reports.

# RESPONSIBILITIES



# 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. Schedule must be done using any PM tool.



# PLANNING RISKS AND CONTINGENCIES

* 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.

# APROVALS

