

## American International University-Bangladesh (AIUB)

## Department of Computer Science Faculty of Science & Technology (FST) Summer 21 22

Section: G
Software Quality Assurance and Testing

Tour and Travel Management System

# A Report submitted By

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## Software Test Plan

for <Project> Version 1.0 approved Prepared by <author> <organization> <date created> **Checked By Industry Personnel** Name: Designation: Company: Sign: Date: **Table of Contents** 

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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	

#### 1. TEST PLAN IDENTIFIER: RS-MTP01.3

#### 2. REFERENCES

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

#### 3. INTRODUCTION

In the highly competitive travel and tourism industry, it is crucial for companies to provide a seamless and enjoyable experience for their customers. A Tours and Travel Management System is an essential tool for companies to manage their operations, bookings, and customer interactions. However, even the most well-designed software can have errors or defects that can affect the user experience and damage the company's reputation. This is where software testing comes in.

Software testing is the process of evaluating a software system or application to ensure that it meets its specified requirements and works as expected. In the context of TTMS, software testing helps to identify any bugs, errors, or inconsistencies that could affect the user's ability to book and manage their travel plans. Testing can also ensure that the TTMS is secure, reliable, and performs well under different scenarios, such as high user traffic or unexpected downtime.

#### Background to the Problem

- Managing manually at a relatively low processing rate.
- Managing a travel management system manually can be a time-consuming process.
- Managing a travel management system manually can be inefficient, as it requires a lot of manual labor.
- Manual processes can be inefficient, resulting in delays, redundancies, and inconsistencies.

#### Solution to the Problem

- Improve efficiency of all processes and increase staff access to their job for improved outcomes.
- Save time and ensure error free operations.
- Improve efficiency and increase work volume capacity.
- Better Collaboration & Communication.

#### 4. REQUEIREMNT SPECIFICATION

#### **4.1** System Features

- 1. System Login
  - The software shall allow users to login with their given username and password.

- 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.
- If the number of login attempt exceed its limit (5 times), the system shall block the user account login for one hour.

Priority Level: High

**Precondition:** user have valid user id and password

- 2. System Registration
  - The software shall allow users to register with their name, email, username, password, phone number.
  - If the username is already used in the system, the system shall give an error message.
  - Without provided valid username, email or phone number, the user shall not register.

Priority Level: High

Precondition: user must provide proper information

- 3. User can edit and update profile
  - The software shall allow users to update and delete profile information.
  - The system shall store the updated information of the users.

Priority Level: Medium

**Precondition:** user must update profile with valid information.

- 4. Admin can add, update and delete package information
  - The software shall allow admin to add, update and delete package information.
  - The system shall store the updated information of the packages.
  - If the package already exists, system shall give warning.

Priority Level: Medium

**Precondition:** Admin must add packages with detailed information.

- 5. Admin can assign manager
  - The software shall allow admin to add manager to manage the packages.
  - The system shall store the information of the manager.

Priority Level: Medium

**Precondition:** Admin must give major access to manager.

- 6. User can order packages with online payment
  - The software shall allow users to order packages and make payment online.

**Priority Level:** Medium

**Precondition:** User must provide valid payment information.

#### 7. User can rate the service

• The software shall allow user to give ratings and feedback.

• The ratings of the packages shall be updated in the system.

**Priority Level:** Medium

**Precondition:** Users must give ratings between 1 to 5 stars.

### **4.2** System Quality Attributes

• **Security**: It is secured and prevented from the exposure of system hacking.

- **Reliability**: The system can provide service 24/7
- **Usability**: It is quite easy for both the admin panel and customer panel operate this software.
- Efficiency: A 64-bit operating system like Windows 10 or later and 4 GB RAM or more.
- Maintainability: There should be scope for system change amplification and correction in any
  emerging situation. A maintenance programmer shall be able to modify existing feature to make
  change or correct any feature.

#### 4.3 System Interface



Figure 1: Home page

General First Name		
Last Name		
Last Name		
Usemame		
Him		
Password		
Confirm Password		
Gender ○ Male ○ Female		
Contact———————————————————————————————————		
Mobile no		
Address Street/House/Road		
Succertouse Road		
Country		
Bangladesh		~
Register		
ready have an account?		

Figure 2: Registration Module of the System

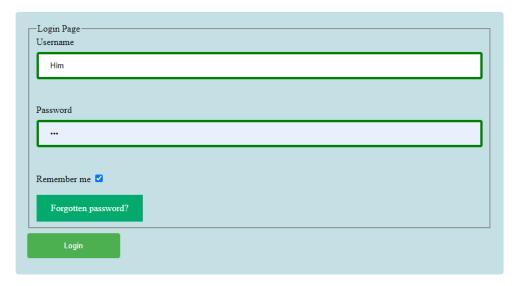


Figure 3: Login Module of the System

## **Tour and Travels Management System**

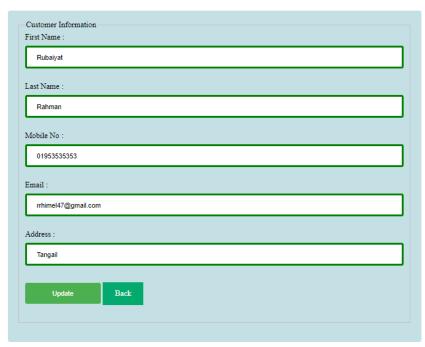


Figure 4: User Profile Module

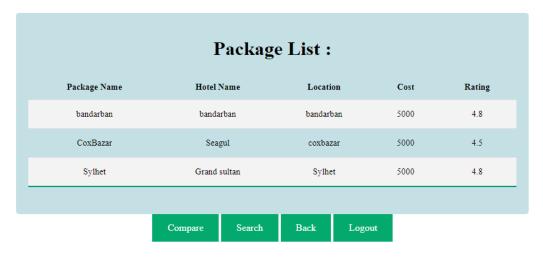


Figure 5: Package Lists

## **Tour and Travels Management System**

## Add Package

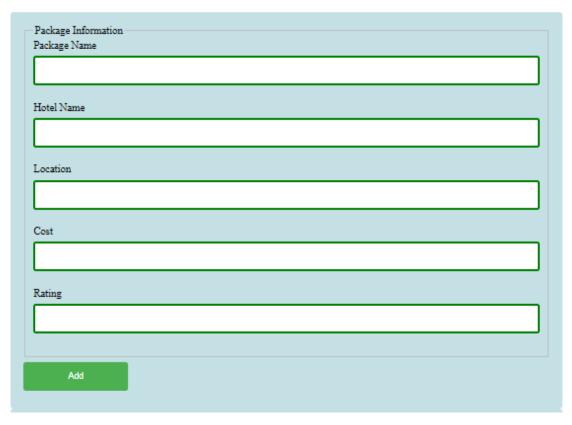


Figure 6: Admin Add Package Module



Figure 7: Order Package Module

## **Tour and Travels Management System**

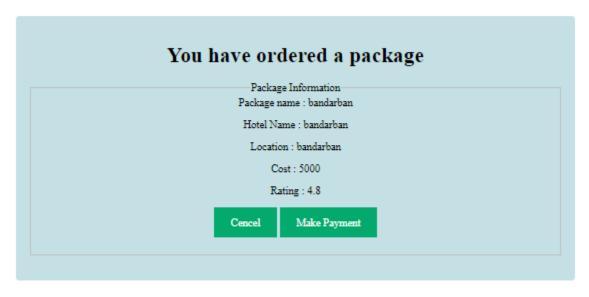


Figure 8: Package Information Module

#### Give Rating

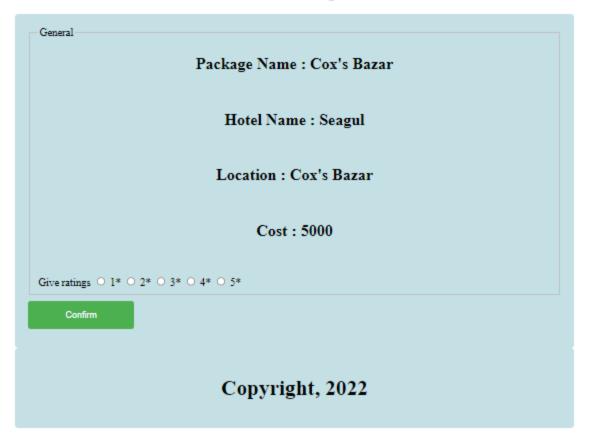


Figure 9: Ratings and Feedback Module

## **4.4** Project Requirements

#### **Environment & resource needs**

- Microsoft Windows 7 with Service Pack 1 or higher.
- Intel Core i3 or higher. (The 7 th generation)
- 4 GB of RAM (minimum).
- 128 GB of free disk space for installation, plus extra space for temporary files during test runs.
- Mouse and keyword.

#### **Software Requirements:**

- Automated Testing tool: selenium.
- Web Browsers: Internet Explorer/ Mozilla Firefox/ Google Chrome.
- Database: MySQL 5.7.12, 8.0.12+ (see note below on MySQL 8 support. PostgreSQL 10.0+.
- Eclipse/Microsoft Visual Studio, /Microsoft Visual Studio code.
- AS/400

#### **Effort Estimation:**

We used COCOMO model for project estimation. The type of the developed product is Semi-detached. So, coefficient=3.0, P=1.12, T=0.35, SLOC=20000

Development Time = DM = 
$$2.50*(PM) ^ T$$
  
=  $2.50*(86) ^ 0.35$   
=  $12$ -week days

Required number of people = 
$$ST = PM/DM$$

$$= 86/12 = 7.17 = 8$$

#### **Budget Estimation:**

Duration weeks = 12 weeks

Week days = 5 days

Working hours = 8 Hours

Per week working hours is = (5\*8) hours = 40 hours

Total Working hours is = (40\*12) hours = 480 hours.

Developer salary per hour = 500 BDT

Total developers Salary = (500\*480\*8) BDT = 1,920,000 BDT

<u>Expanse</u>	Amount	Total Amount
Salary for team		1,920,000
		BDT
3 months office rent	3*10000	30,000 BDT
Electricity and othercosts		20,000 BDT

1 months Maintenancecost	5*10*1200	60,000 BDT
Travel Cost	1*5000	5,000 BDT
Total Cost		2,035,000
		BDT
15% of total cost(profit)		305,250 BDT
Now total budget is		2,340,250
		BDT

- 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)

#### 5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. For example:

O 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.

#### 6. TESTING APPROACH

#### **6.1** 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.
- O 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.

#### **6.2** 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 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.

## **6.3** 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.

#### 7. TEST CASES/TEST ITEMS

Project Name: Tour System	Test Desi	ign by:wahid sadik,Az	zizul Hakim		
Test case ID:FTM0	33		Test Desi	igned date: 20.4.202	3
Test Priority (Low,	Medium,High): High		Test Executed by:Rubaiyat Rahman, Simanto Podder		
Module Name: Log	in Session		Test Exec	cuted date:25.4.2023	
Test Title: verify log password					
Description: Test T	TM Login page				
Precondition: Valid	username and passwo	ord in syste	em Databas	se	
Test steps	Test Data	Expected	Result	Actual Results	Status (Pass/Fail)
<ol> <li>Go to website</li> <li>Enter username</li> <li>Enter password</li> <li>Click submit</li> </ol>	Username:sadik73 Password:12345 @sadik	User show into the a dashboard application	dmin d the	As expected	Pass

4. Click submit Post Condition: User is validated with database and successfully login to account

Project Name: Tour and Travel Management System			Test Design by:wahid sadik,Azizul Hakim		
Test case ID:FTM0	Test case ID:FTM04			Designed date: 20.4	.2023
Test Priority (Low, Medium, High): High			Test Executed by:Rubaiyat Rahman, Simanto Podder		
Module Name:Test	sign up page		Test	Executed date:25.4.	2023
Test Title:Verify sig	gn up				
Description: Test T	ΓM sign up				
Precondition:User n	nust filled all required	l fields			
Test steps	Test Data	Expected Res	ult	Actual Results	Status (Pass/Fail)
<ol> <li>user go to website</li> <li>Go the sign up page</li> <li>Filed required fields</li> <li>Click sign up</li> </ol>	Name:wahid sadik Username:sadik73 Email:wahidsadi0 11@gmail.com Password:12345 @sadik	User go the lo		As expected	Pass
Post Condition:The	user successfully sign	n up with the sy	stem		

Project Name: T	Project Name: Tour and Travel Management Test Design by:wahid sadik,Aziz				
System	our and Traver IV	Hakim	•		
System			Hakiiii		
Test case ID:FT	M05		Test Designed	date: 20.4.2023	
Test Priority (Lo	w,Medium,High	): Medium	Test Executed 1	y:Rubaiyat	
			Rahman,Siman	•	
Module Name:vo	erify search pack	age	Test Executed of	date:25.4.2023	
Test Title:TMM	Dashbroad searc	h			
Description:Sear	rch offer package				
Precondition:use	er search by word	and show all offe	er package		
Test steps	Test Data	Expected	Actual Results	Status	
		Result		(Pass/Fail)	
1. Go the	Search:thailan	Show all	As expected	Pass	
website	bsite d package Thailand				
2. search in		package			
search box					
3. Click					
search button					
Post Condition:user successfully get search result					

Project Name:T	our and Travel M	Test Design by:wahid sadik,Azizul			
System			Hakim		
Test case ID:FTM06			Test Designed	Test Designed date: 21.4.2023	
Test Priority (L	Test Priority (Low,Medium,High): Medium			Test Executed by:Rubaiyat Rahman,Simanto Podder	
Module Name:	verify update profi	le	Test Executed	date:27.4.2023	
Test Title:TMM	I user update profi	le			
Description: use	er profile update				
Precondition:us Test steps	er update his infor	mation successf  Expected Result	ully Actual Results	Status (Pass/Fail)	
1. Go the	Name:sadik	User	As expected	Pass	
website 2.login his profile 3.go to his profile 4.click update profile	wahid  Email:wahidsa dik@gmail.co m  Username:wah id73  Password:	information update successfully	71s expected		
Post Condition:	user successfully	get search result	I	1	
		5 <b></b>			

## 8. TEST DELIVERABLES

Item is considered as passed if it passes 95% of test cases of the test suite. Other it's considered a failure.

## 9. TEST DELIVERABLES

The following will be delivered  $\hfill\Box$ 

- o Test Plan
- Test Cases
- Test Scripts
- o Test Data
- o Execution Log
- o Defect Report
- o Test Summary Report
- Screen prototypes

#### 10. STAFFING AND TRAINING NEEDS

Two full time professional experienced tester required for this project. Each of them trains a batchconsist of five testers for this project.

### 11. RESPONSIBILITIES

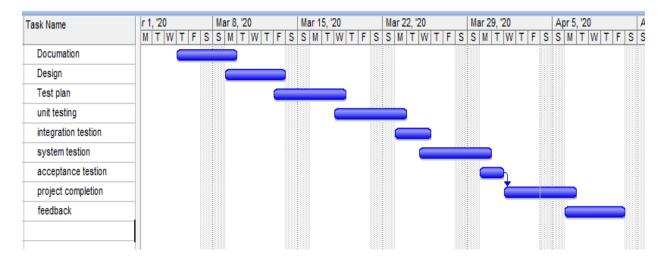
Responsibility	Name
Test Plan Verification	RUBAIYAT RAHMAN, Simanto Podder
Preparing The Test Cases	Simanto Podder, Wahid Sadik, Azizul Hakim
Unit Test Documentation &Execution	Wahid Sadik, Rubaiyat Rahman
Acceptance Test Documentation	Simanto Podder, Wahid Sadik
Validating Project changes	Azizul Hakim, Rubaiyat Rahman, Wahid sadik
System Test and Control Changing	Rubaiyat Rahman

Test	Documentation	&	Execution	of
Test	Cases			

Wahid Sadik, Rubaiyat Rahman, Azizul Hakim Simanto Podder

#### 12. 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.



#### 13. 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.

## 14. APROVALS

Project Sponsor - Steve Sponsor	
Development Management - Ron Manager	
EDI Project Manager - Peggy Project	
RS Test Manager - Dale Tester	
RS Development Team Manager - Dale Tester	
Reassigned Sales - Cathy Sales	
Order Entry EDI Team Manager - Julie Order	