



**EEC 623 – Software Quality Assurance**

**Course Project**

**Travel Management System**

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# 1. Introduction

This project is to test the **Travel Management System** website. It is an automated system that aims to help customers easily check their travel package details and at the same time it helps the travel company keep track of the trip packages online. This website is designed as a simple project that the functions used here can be easily operated by the user or admin.

In the testing process, we have done the test plan, designed test cases and executed those test cases and tracked those test results. We have performed manual/functional testing on the website. Also, we have tested some of the features using Selenium IDE testing tool.

While performing testing, we have identified some of the defects and reported them based on the defect priority (High, Medium, Low). At the end, we have recorded testing percentages based on passed test cases and failed test cases.

To conclude, if the identified defects are resolved and redeployed in the website, it will be helpful for the users to book travel packages without any issues. Also, it helps the admin to manage his roles easily.

## 2. Software Under Test

The Travel Management System contains two sections which are user portal and admin portal. The user has to register first before they can access the website. Once, they logged into the website, user can now view the travel packages details that is divided into sub categories and user also has the ability to book packages online and send for an enquiry.

While on the admin section, he has an important role in every component management of the system. The admin can add, delete and update the users, categories, sub categories and packages. He can also add, update and remove advertisements to the website and view all the enquiries which are posted by users.

This website is developed using PHP, HTML, CSS, JavaScript, Bootstrap and MySQL for its database. We used XAMPP web server package to test on localhost webserver. Below are the versions of tool and language we used.

XAMPP Control Panel version: v3.3.0

PHP version: 5.6.39

PhpMyAdmin version: 4.8.4

### 2.1. Features / Functions to be tested

Below are the features listed from user portal and admin portal. We have tested every function that is mentioned below.

#### User:

- Home Page
  - Need to test whether home page of the website is properly working or not.

- About
  - Test whether the relevant information about website is displayed or not.
- Gallery
  - Test whether the images of different locations/places are showing or not.
- Contact
  - User should be able to contact travel experts by providing their details to plan for a trip.
- Category
  - This page should display different kinds of tour plans with different locations and package details i.e., place name, price of the package, place description etc.
- Enquiry
  - User should be able to send an enquiry message to the admin to know package or trip details by providing required information like Name, Gender, Email, Mobile No, No. of days, No. of children, No. of adults, Enquiry message.

#### **Admin:**

- Login
  - Admin should be able to login to his portal with valid credentials such as User name and Password.
- Admin Links
  - After logging into admin portal, he should be able to see all his roles in left panel.
- Add User
  - Admin should be able to add new user by providing User name, Password and Type of user.
- Update User
  - Admin should be able to select the user from list of users in a dropdown and update his password and user type.
- Delete User
  - Admin should be able to select the user from list of users and able to delete the user.
- Add Category
  - Admin should be able to add new category of trip i.e., Family tours, Adventure tours, National Parks etc.
- Update Category
  - Admin should be able to select the category from list of categories available and update the category name.
- Delete Category
  - Admin should be able to select the category from list and able to delete the category.
- View Category
  - Admin can see all the available tour category types.
- Add Subcategory
  - Admin should be able to add subcategory details of specific category by providing Subcategory name, image, description of subcategory. Subcategories may include like Family travel to India, Religious tours to Italy, Small group tours in England, Christmas themed vacations etc.
- Update Subcategory
  - Admin should be able to select the subcategory from list and update the details like Subcategory name, Change category, Image, Description.

- Delete Subcategory
  - Admin should be able to select the category and subcategory from lists and delete the subcategory.
- View Subcategory
  - Admin can view all the tour plans subcategories available in the system.
- Add Package
  - Admin should be able to add new package details of specific location by providing information like package name, which category, subcategory, price of the package, pictures of location, description.
- Update Package
  - Admin should be able to select the package from list and update the details like package name, change category or subcategory, replace images of location, price and description.
- Delete Package
  - Admin should be able to select the package from list of packages available in system and delete that package.
- View Package
  - Admin can see all the tour packages available and category, subcategory, price of the package, images of locations.
- View Enquiry
  - Admin can view the enquiries which are submitted by users.

### 3. Test Design

#### 3.1. Test cases design

We have designed the test cases by including test scope, test strategy, writing test cases, test environment, test work products.

##### **Test scope:**

- Test scope includes identifying the modules, features, and functionalities to be tested on the website. Also, determining the testing approach, objectives to be performed.

##### **Test strategy:**

- Test strategies include the types of testing to be performed on the website such as unit testing, integration testing, system testing, acceptance testing, performance testing.

##### **System Testing:**

Here, we will test each and every function as individual component and then we will test whole website if it is launching properly and all functions are working correctly.

- From user side, we will test whether user is able to view and select category, subcategory, package details and do enquiry as a whole application without encountering any defects.

- From admin portal, admin should be able to login and he should perform or manage all his roles without any issues.

#### **Test cases:**

- Identify all functions in each module to perform testing.
- Write/define test cases with preconditions, test steps, output specifications, and inter-case dependencies present if any.

#### **Test environment:**

- We performed manual testing for most of the features in the system.
- Also, we tested some of the features using Selenium IDE tool by enabling it as an extension in the browser, where the browser is our test environment.

#### **Test work products:**

- These test work products include test plans, test cases, test scripts, test data, test reports.
- Test scripts detailed instructions are steps to execute the designed test cases and record the results.
- Test data used for testing the system such as user's information, travel categories, subcategories, trips package details and enquiries posted by users.
- Test reports are the documents that will summarize the results of testing activities performed on the system. These reports include defect logs, test execution results and summary reports.

### **3.2. Test Coverage Criteria**

Test coverage measures how much testing is done on the website. It determines whether your test cases cover the functionality of software when those test cases are executed. It is usually defined as a percentage that shows measurement of completeness of the test suite. There are various testing coverage techniques can be used during the software testing process. We mainly focused on product coverage and requirements coverage.

#### **Product coverage:**

- It is one of the principal testing coverage techniques to evaluate the effectiveness of the testing process. To use this technique, we need to analyze the software and its testability. It helped us to focus on testable items and to eliminate the non-testable items.

#### **Requirements coverage:**

- This testing coverage technique is the process of identifying which software requirements have been tested and which are not. To assess this requirements coverage, we must understand the requirements that need to be covered. These include functional, non-functional, interface and performance requirements.
- Functional requirements cover the functionality of the software.

- Non-functional requirements cover the non-functional aspects of the software, such as scalability and reliability.
- Interface requirements cover the interface between the software and its users.

## 4. Test Case Specifications

### 4.1. Test case specifications

Test Case Identifier	TC1
Test Items/feature	URL
Preconditions	User should open browser and enter website URL.
Test Steps	<ol style="list-style-type: none"> <li>1. Enter Travel Management System website URL, “localhost/travel/” in search bar.</li> <li>2. Click Go or Enter button.</li> </ol>
Output Specifications	Travel Management System website has to load home page properly without any exceptions. All the menu items have to be loaded.
Inter-case Dependencies	NA
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC2
Test Items/feature	Home button
Preconditions	Website should be opened in browser.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Home button.</li> </ol>
Output Specifications	Application has to redirect to home page.
Inter-case Dependencies	TC1
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC3
Test Items/feature	About button
Preconditions	Website should be opened in browser.
Test Steps	1. Click on About button in home page.
Output Specifications	Application has to open About Us section and should display content in that section.
Inter-case Dependencies	TC1
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC4
Test Items/feature	Gallery button
Preconditions	Website should be opened in browser.
Test Steps	1. Click on Gallery button in home page. 2. Click on subsection in Gallery section.
Output Specifications	Application has to redirect to Gallery section and display all the images as well as images have to displayed as per the sub sections.
Inter-case Dependencies	TC1
<b>Test Result</b>	<b>Fail</b>

Test Case Identifier	TC5
Test Items/feature	Contact button
Preconditions	Website should be opened in browser.
Test Steps	1. Click on Contact button in home page.
Output Specifications	Application has to redirect to Contact Us section and display fields to enter details to contact travel experts.
Inter-case Dependencies	TC1

<b>Test Result</b>	Pass
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Test Case Identifier	TC6
Test Items/feature	Contact Us – Send Message
Preconditions	Contact Us section has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. User has to enter data in Name, Contact No., Email, Message fields.</li> <li>2. Then on clicking Send Message button, message has to send to admin/travel expert.</li> <li>3. Message has to be displayed in Admin portal.</li> </ol>
Output Specifications	Success alert has to be displayed after sending message. Also, sent message has to be displayed in Admin portal.
Inter-case Dependencies	TC5
<b>Test Result</b>	Fail

Test Case Identifier	TC7
Test Items/feature	Contact Us – Send Message fields
Preconditions	Contact Us section has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. User has to enter valid data in Name, Contact No., Email, Message fields. And any of the fields should not be left empty before sending message.</li> </ol>
Output Specifications	If any of the fields are not filled with valid details or left empty, system should display error message “Please fill out this field”.
Inter-case Dependencies	TC5
<b>Test Result</b>	Pass

Test Case Identifier	TC8
Test Items/feature	Category button



Preconditions	Website should be opened in browser.
Test Steps	1. Click on Category button in home page.
Output Specifications	Application has to redirect to Category section and display content and list of categories in that section.
Inter-case Dependencies	TC1
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC9
Test Items/feature	Category Types
Preconditions	Category section has to be opened.
Test Steps	1. Click on specific category type link.
Output Specifications	On clicking each category type link, system should display respective subcategories of that category with all the images loaded.
Inter-case Dependencies	TC8
<b>Test Result</b>	<b>Fail</b>

Test Case Identifier	TC10
Test Items/feature	Subcategories page
Preconditions	Subcategory page has to be opened for a specific category.
Test Steps	<ol style="list-style-type: none"> <li>1. System should display different types of travel plans based on category type.</li> <li>2. Click on View Detail button of a specific subcategory to view travel package.</li> </ol>
Output Specifications	On clicking View Detail button, system should redirect to Packages page.
Inter-case Dependencies	TC8, TC9
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC11
Test Items/feature	Packages page
Preconditions	Packages page has to be opened of a specific subcategory.
Test Steps	<ol style="list-style-type: none"> <li>1. System should display different types of travel packages based on subcategory chosen.</li> <li>2. Click on View Detail button.</li> </ol>
Output Specifications	On clicking View Detail button, system should redirect to View Packages page.
Inter-case Dependencies	TC8, TC9, TC10
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC12
Test Items/feature	View Packages page
Preconditions	View Detail button should be clicked in the packages page.
Test Steps	<ol style="list-style-type: none"> <li>1. User should be able to see description of travel location and Enquiry button.</li> </ol>
Output Specifications	Page has to display content of a specific package to know price and description of that trip location/place with Enquiry option.
Inter-case Dependencies	TC8, TC9, TC10, TC11
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC13
Test Items/feature	Enquiry button
Preconditions	View Packages page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Enquiry button in View Packages page.</li> </ol>
Output Specifications	System should be redirected to Enquiry page.
Inter-case Dependencies	TC8, TC9, TC10, TC11, TC12

<b>Test Result</b>	Pass
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Test Case Identifier	TC14
Test Items/feature	Enquiry page
Preconditions	Enquiry page should be loaded for a specific package.
Test Steps	<ol style="list-style-type: none"> <li>1. System should display Package ID and Name of a selected travel package.</li> <li>2. User should fill Name, Gender, Mobile No., Email, No. of Days, No. of Children, No. of Adults, Enquiry Message fields.</li> <li>3. Click on Submit button and enquiry has to be submitted to admin.</li> </ol>
Output Specifications	Success message has to be displayed after submitting the enquiry.
Inter-case Dependencies	TC8, TC9, TC10, TC11, TC12, TC13
<b>Test Result</b>	Pass

Test Case Identifier	TC15
Test Items/feature	Enquiry page fields
Preconditions	Enquiry page should be loaded for a specific package.
Test Steps	<ol style="list-style-type: none"> <li>1. User should fill valid data in Name, Gender, Mobile No., Email, No. of Days, No. of Children, No. of Adults, Enquiry Message fields. None of the fields have to be left empty before submitting the enquiry.</li> </ol>
Output Specifications	If any of the fields are not filled with valid details or left empty, system should display error message "Please fill out this field".
Inter-case Dependencies	TC8, TC9, TC10, TC11, TC12, TC13
<b>Test Result</b>	Pass

Test Case Identifier	TC16
Test Items/feature	Admin Login button
Preconditions	Website should be opened in browser.
Test Steps	1. Click on Admin Login button in home page.
Output Specifications	Application has to redirect to Login page and display fields.
Inter-case Dependencies	TC1
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC17
Test Items/feature	Admin Login page
Preconditions	Admin login page has to be opened.
Test Steps	1. Enter data in User Name and Password fields. 2. Click on Login button.
Output Specifications	System should be redirected to home page of the admin portal with all his roles listed with links.
Inter-case Dependencies	TC16
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC18
Test Items/feature	Admin Login page valid/invalid credentials
Preconditions	Admin login page has to be opened.
Test Steps	1. User has to enter valid credentials in User Name and Password fields. 2. Click on Login button.
Output Specifications	System should display “Invalid login or password” error message if any of the credentials is incorrect.
Inter-case Dependencies	TC16

<b>Test Result</b>	<b>Pass</b>
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Test Case Identifier	TC19
Test Items/feature	Admin Login page fields
Preconditions	Admin login page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. User has to enter data in both User Name and Password fields.</li> <li>2. Click on Login button.</li> </ol>
Output Specifications	If any of the fields are not filled, system should display “Please fill out this field” alert.
Inter-case Dependencies	TC16
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC20
Test Items/feature	Add User link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Add User link.</li> </ol>
Output Specifications	System should redirect to Add User page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC21
Test Items/feature	Add User page
Preconditions	Add User page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Fill the fields User Name, Password, Confirm Password, Type of User.</li> <li>2. Click on Save button.</li> </ol>

Output Specifications	Success alert should display after saving user details.
Inter-case Dependencies	TC20
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC22
Test Items/feature	Add User page fields
Preconditions	Add User page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Fill the valid data in fields User Name, Password, Confirm Password, Type of User. And none of fields have to be left empty.</li> <li>2. Password and Confirm Password fields data has to be same.</li> <li>3. Click on Save button.</li> </ol>
Output Specifications	If any of the fields are left empty, system should display “Please fill out this field.” message. If Password and Confirm Password fields data are not matched, system should display “Password and Confirm Password should be same.” message.
Inter-case Dependencies	TC20
<b>Test Result</b>	<b>Fail</b>

Test Case Identifier	TC23
Test Items/feature	Update User link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Update User link.</li> </ol>
Output Specifications	System should redirect to Update User page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC24
Test Items/feature	Update User page
Preconditions	Update User page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Fill the fields Select User, Password, Confirm Password, Type of User.</li> <li>2. Click on Update button.</li> </ol>
Output Specifications	Success alert should display after updating user details.
Inter-case Dependencies	TC23
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC25
Test Items/feature	Update User page fields
Preconditions	Update User page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Fill the valid data in fields Select User, Password, Confirm Password, Type of User. And none of fields have to be left empty.</li> <li>2. Click on Update button.</li> </ol>
Output Specifications	If any of the fields are left empty, system should display “Please fill out this field.” Message.
Inter-case Dependencies	TC23
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC26
Test Items/feature	Delete User link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Delete User link.</li> </ol>
Output Specifications	System should redirect to Delete User page.
Inter-case Dependencies	TC17

<b>Test Result</b>	Pass
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Test Case Identifier	TC27
Test Items/feature	Delete User page
Preconditions	Delete User page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Select the User to delete from system.</li> <li>2. Click on Delete button.</li> </ol>
Output Specifications	Success alert should display after deleting user.
Inter-case Dependencies	TC26
<b>Test Result</b>	Pass

Test Case Identifier	TC28
Test Items/feature	Delete User page field
Preconditions	Delete User page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Admin must select the user to delete from system.</li> </ol>
Output Specifications	If no user is selected by admin, then error message “Please select user from the list.” is displayed.
Inter-case Dependencies	TC26
<b>Test Result</b>	Pass

Test Case Identifier	TC29
Test Items/feature	Add Category link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Add Category link.</li> </ol>
Output Specifications	System should redirect to Add Category page.



Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC30
Test Items/feature	Add Category page
Preconditions	Add Category page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Enter the Category Name.</li> <li>2. Click on Save button.</li> </ol>
Output Specifications	Success message should display after saving new category and that new category is reflected in category types.
Inter-case Dependencies	TC29
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC31
Test Items/feature	Add Category page field
Preconditions	Add Category page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Admin must enter data in Category Name field.</li> </ol>
Output Specifications	If category name field is left empty, error message “Please fill out this field” is shown.
Inter-case Dependencies	TC29
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC32
Test Items/feature	Update Category link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on Update Category link.</li> </ol>

Output Specifications	System should redirect to Update Category page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC33
Test Items/feature	Update Category page
Preconditions	Update Category page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Select the Category Name, fill new Category Name field.</li> <li>2. Click on Update button.</li> </ol>
Output Specifications	Success message should display after updating category name and that new category name is reflected in category types.
Inter-case Dependencies	TC32
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC34
Test Items/feature	Update Category page fields
Preconditions	Update Category page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Admin must select the category name and should not left empty in new category name field.</li> <li>2. Click on Update button.</li> </ol>
Output Specifications	If none of the fields is left empty, system should display error message "Please fill out this field".
Inter-case Dependencies	TC32
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC35
Test Items/feature	Delete Category link

Preconditions	Admin portal has to be opened.
Test Steps	1. Click on Delete Category link.
Output Specifications	System should redirect to Delete Category page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC36
Test Items/feature	Delete Category page
Preconditions	Delete Category page has to opened.
Test Steps	1. Select the Category to delete from system. 2. Click on Delete button.
Output Specifications	Success alert should display after deleting category.
Inter-case Dependencies	TC35
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC37
Test Items/feature	Delete Category page field
Preconditions	Delete Category page has to opened.
Test Steps	1. Admin must select the category to delete from system.
Output Specifications	If no category is selected by admin, then error message “Please select category from the list.” is displayed.
Inter-case Dependencies	TC35
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC38
Test Items/feature	View Category link
Preconditions	Admin portal has to be opened.
Test Steps	1. Click on View Category link.
Output Specifications	System should redirect to View Category page and display list of all the categories ID and Names available in the system.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC39
Test Items/feature	Add Subcategory link
Preconditions	Admin portal has to be opened.
Test Steps	1. Click on Add Subcategory link.
Output Specifications	System should redirect to Add Subcategory page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC40
Test Items/feature	Add Subcategory page
Preconditions	Add Subcategory page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Fill the fields Subcategory Name, Select Category, Upload Image, Description.</li> <li>2. Click on Save button.</li> </ol>
Output Specifications	Success message should display after saving new subcategory and that new subcategory is reflected in subcategory page of respective category.
Inter-case Dependencies	TC39

<b>Test Result</b>	<b>Pass</b>
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Test Case Identifier	TC41
Test Items/feature	Add Subcategory page fields
Preconditions	Add Subcategory page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>Admin must fill all the fields Subcategory Name, Select Category, Upload Image, Description.</li> <li>Click on Save button.</li> </ol>
Output Specifications	If any of the fields are left empty, system displays error message “Please fill out this field”.
Inter-case Dependencies	TC39
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC42
Test Items/feature	Update Subcategory link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>Click on Update Subcategory link.</li> </ol>
Output Specifications	System should redirect to Update Subcategory page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC43
Test Items/feature	Update Subcategory page
Preconditions	Update Subcategory page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>Select the Category and Subcategory Names, fill the fields new Subcategory Name, upload Old and New Image and Description.</li> </ol>

	2. Click on Update button.
Output Specifications	Success message should display after updating subcategory details and that new subcategory details are reflected in subcategory page of respective category.
Inter-case Dependencies	TC42
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC44
Test Items/feature	Update Subcategory page fields
Preconditions	Update Subcategory page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Admin must select the Category and Subcategory Names, fill the fields new Subcategory Name, upload Old and New Image and Description.</li> <li>2. Click on Update button.</li> </ol>
Output Specifications	If none of the fields is left empty, system should display error message "Please fill out this field".
Inter-case Dependencies	TC42
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC45
Test Items/feature	View Subcategory link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Click on View Subcategory link.</li> </ol>
Output Specifications	System should redirect to View Subcategory page and display list of all the subcategories ID and Names available in the system.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC46
Test Items/feature	Add Package link
Preconditions	Admin portal has to be opened.
Test Steps	1. Click on Add Package link.
Output Specifications	System should redirect to Add Package page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC47
Test Items/feature	Add Package page
Preconditions	Add Package page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Fill the fields Package Name, Select Category and Subcategory, Package Price, Upload Images, and Details.</li> <li>2. Click on Save button.</li> </ol>
Output Specifications	Success message should display after saving new package and that new package is reflected in packages page of respective category and subcategory.
Inter-case Dependencies	TC46
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC48
Test Items/feature	Add Package page fields
Preconditions	Add Package page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Admin must fill all the fields Package Name, Select Category and Subcategory, Package Price, Upload Images, and Details. And no field should leave as empty.</li> <li>2. Click on Save button.</li> </ol>
Output Specifications	If any of the fields are left empty, system displays error message "Please fill out this field".

Inter-case Dependencies	TC46
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC49
Test Items/feature	Update Package link
Preconditions	Admin portal has to be opened.
Test Steps	1. Click on Update Package link.
Output Specifications	System should redirect to Update Package page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC50
Test Items/feature	Update Package page
Preconditions	Update Package page has to opened.
Test Steps	<ol style="list-style-type: none"> <li>1. Select the Package, Category and Subcategory Names, fill the fields new Package Name, upload New Images and Details.</li> <li>2. Click on Update button.</li> </ol>
Output Specifications	Success message should display after updating package details and that package details are reflected in packages page of respective category and subcategory.
Inter-case Dependencies	TC49
<b>Test Result</b>	<b>Fail</b>

Test Case Identifier	TC51
Test Items/feature	Update Package page fields
Preconditions	Update Package page has to opened.



Test Steps	<ol style="list-style-type: none"> <li>Admin must select the Package, Category and Subcategory Names, fill the fields new Package Name, upload New Images and Details. None of the fields should leave as empty.</li> <li>Click on Update button.</li> </ol>
Output Specifications	If any of the fields are left empty, system displays error message “Please fill out this field”.
Inter-case Dependencies	TC49
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC52
Test Items/feature	Delete Package link
Preconditions	Admin portal has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>Click on Delete Package link.</li> </ol>
Output Specifications	System should redirect to Delete Package page.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC53
Test Items/feature	Delete Package page
Preconditions	Delete Package page has to be opened.
Test Steps	<ol style="list-style-type: none"> <li>Select the Package Name to delete from system.</li> <li>Click on Delete button.</li> </ol>
Output Specifications	Success alert should display after deleting package.
Inter-case Dependencies	TC52
<b>Test Result</b>	<b>Pass</b>

Test Case Identifier	TC54
Test Items/feature	View Package link
Preconditions	Admin portal has to be opened.
Test Steps	1. Click on View Package link.
Output Specifications	System should redirect to View Package page and display list of all the packages with ID, Package Name, Category, Subcategory, Price and Images available in the system.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Fail</b>

Test Case Identifier	TC55
Test Items/feature	View Enquiry link
Preconditions	Admin portal has to be opened.
Test Steps	1. Click on View Enquiry link.
Output Specifications	System should redirect to View Enquiry page and display list of all the enquiries that are posted by users regarding travel packages with Package Name, Package ID, User Name, Gender, Mobile No., Email, No. of Days, No. of Children, No. of Adults, Status fields.
Inter-case Dependencies	TC17
<b>Test Result</b>	<b>Pass</b>

## 4.2. Traceability Matrix

- Traceability matrix shows which features/requirements are covered by which test cases. It is used to prove that requirements have been fulfilled. It documents the requirements/features, tests, test results and defects identified.

**User:**

Feature/Requirement	Test case ID(s)	Test result
Home page	TC1, TC2	TC1 – Pass TC2 - Pass

About	TC3	TC3 – Pass
Gallery	TC4	TC4 – Fail
Contact	TC5, TC6, TC7	TC5 – Pass TC6 – Fail TC7 – Pass
Category	TC8, TC9, TC10, TC11, TC12	TC8 – Pass TC9 – Fail TC10 – Pass TC11 – Pass TC12 – Pass
Enquiry	TC13, TC14, TC15	TC13 – Pass TC14 – Pass TC15 – Pass

### Admin:

Feature/Requirement	Test case ID(s)	Test result
Admin Login/Links	TC16, TC17, TC18, TC19	TC16 – Pass TC17 – Pass TC18 – Pass TC19 – Pass
Add User	TC20, TC21, TC22	TC20 – Pass TC21 – Pass TC22 - Fail
Update User	TC23, TC24, TC25	TC23 – Pass TC24 – Pass TC25 – Pass
Delete User	TC26, TC27, TC28	TC26 – Pass TC27 – Pass TC28 – Pass
Add Category	TC29, TC30, TC31	TC29 – Pass TC30 – Pass TC31 – Pass
Update Category	TC32, TC33, TC34	TC32 – Pass TC33 – Pass TC34 – Pass
Delete Category	TC35, TC36, TC37	TC35 – Pass TC36 – Pass TC37 – Pass
View Category	TC38	TC38 – Pass
Add Subcategory	TC39, TC40, TC41	TC39 – Pass TC40 – Pass TC41 – Pass
Update Subcategory	TC42, TC43, TC44	TC42 – Pass TC43 – Pass TC44 – Pass
View Subcategory	TC45	TC45 – Pass
Add Package	TC46, TC47, TC48	TC46 – Pass TC47 – Pass TC48 – Pass

Update Package	TC49, TC50, TC51	TC49 – Pass TC50 – Fail TC51 – Pass
Delete Package	TC52, TC53	TC52 – Pass TC53 – Pass
View Package	TC54	TC54 – Fail
View Enquiry	TC55	TC55 – Pass

## 5. Test Results

After performing manual testing on the website and testing using Selenium IDE, we have encountered some of the defects. Below are the test results and number of defects encountered at that test case.

Test Case ID	Result	Defect Report
TC1	Pass	
TC2	Pass	
TC3	Pass	
TC4	Fail	1
TC5	Pass	
TC6	Fail	1
TC7	Pass	
TC8	Pass	
TC9	Fail	1
TC10	Pass	
TC11	Pass	
TC12	Pass	
TC13	Pass	
TC14	Pass	
TC15	Pass	
TC16	Pass	
TC17	Pass	
TC18	Pass	
TC19	Pass	
TC20	Pass	
TC21	Pass	
TC22	Fail	1
TC23	Pass	
TC24	Pass	

TC25	Pass	
TC26	Pass	
TC27	Pass	
TC28	Pass	
TC29	Pass	
TC30	Pass	
TC31	Pass	
TC32	Pass	
TC33	Pass	
TC34	Pass	
TC35	Pass	
TC36	Pass	
TC37	Pass	
TC38	Pass	
TC39	Pass	
TC40	Pass	
TC41	Pass	
TC42	Pass	
TC43	Pass	
TC44	Pass	
TC45	Pass	
TC46	Pass	
TC47	Pass	
TC48	Pass	
TC49	Pass	
TC50	Fail	1
TC51	Pass	
TC52	Pass	
TC53	Pass	
TC54	Fail	1
TC55	Pass	

## 6. Summary or Conclusion

We have executed all the test cases that are designed in each functionality of the website. We went through each feature of user's and admin's portals and performed manual testing and testing using Selenium tool. While performing testing, we have encountered 6 defects. Among those 6 defects, 4 defects are critical (high) priority, 1 is medium priority, 1 is low priority defect.

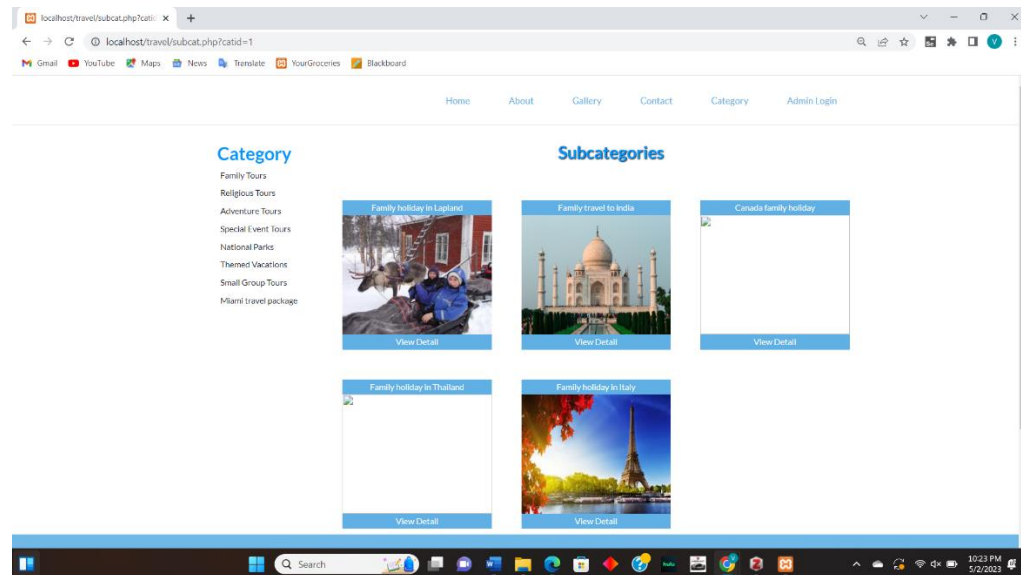
Among total 55 test cases, 49 test cases are passed and 6 test cases are failed, and defects reported. We defined the testing percentage based on passed and failed test cases. 89.09% are passed test cases and 10.90% are failed test cases.

## 7. Appendix

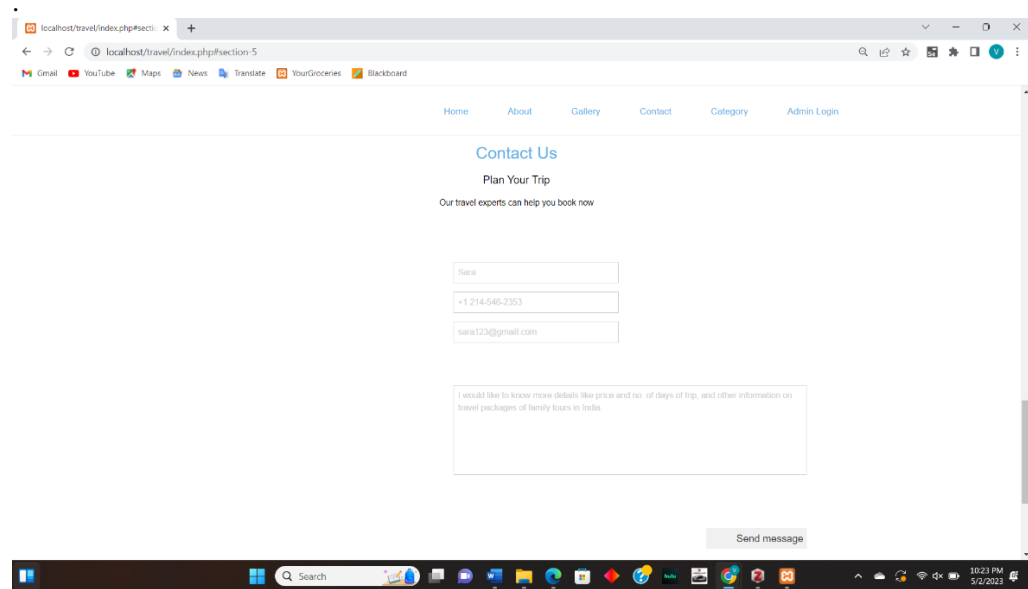
### a. Defect reports

Below are the screenshots of defects reported on the website after performing test.

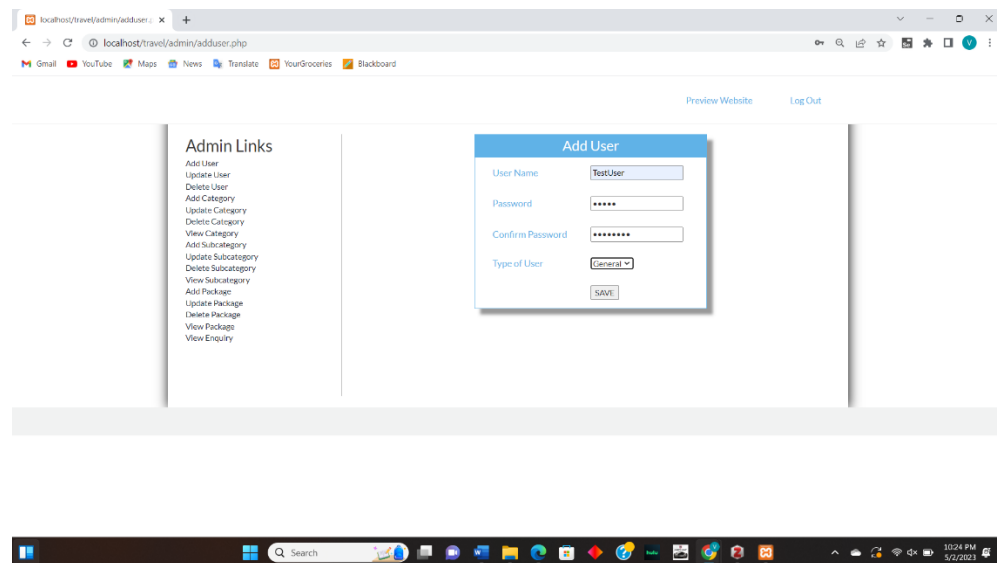
1. Below screenshot is from user's category screen. Here, location images for all subcategories, and packages are not showing.



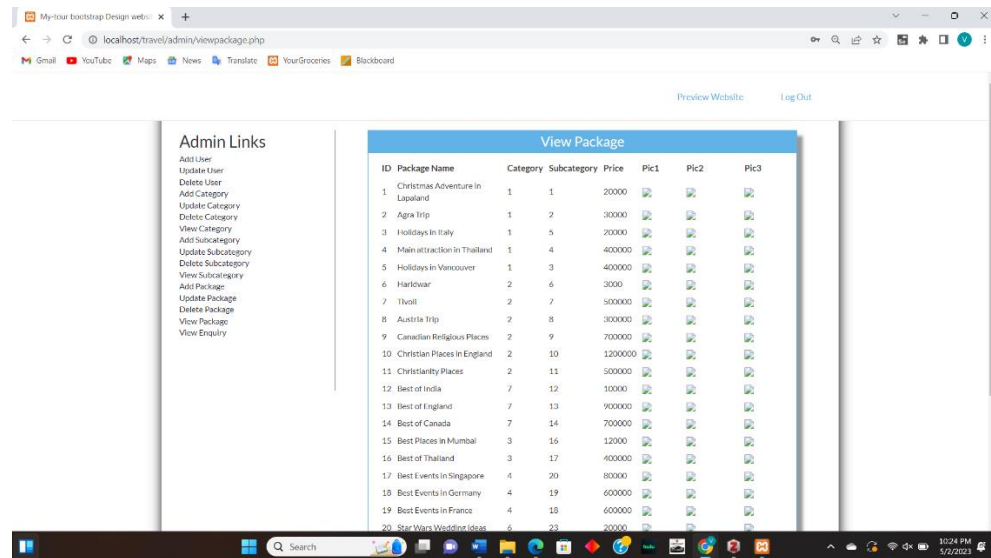
2. Below screenshot is from user's contact screen. Here after sending message to admin regarding the query on trip package, system alerts with success message. But the sent message is not displaying anywhere in admin portal for admin.



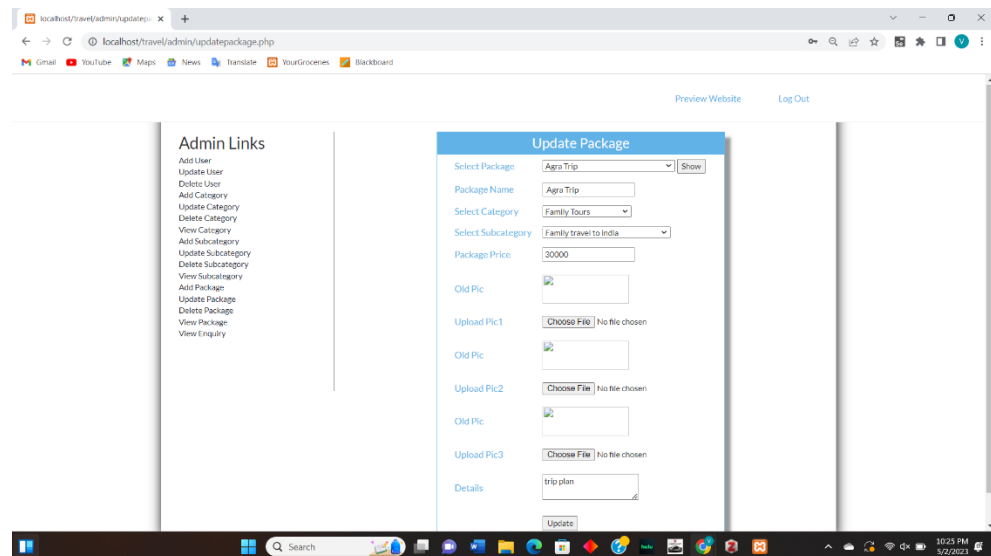
3. Below screenshot is from admin's add user screen. Here, when admin adds new user with the required details, user is getting added even if password and confirm password fields are not matched. New user is added with the password entered in Password field, but not checking with confirm password.



4. Below screenshot is from admin's view package screen. Here, all the packages details are showing but not images of packages. Images are not loading in packages details list.



5. Below screenshot is admin's update package screen. Here, when we select package and click on show, all the details of package are fetched and auto filled but not images. Images are not getting fetched for package and not showing.





6. Below screenshot is from user's gallery screen. Here, image of all categories showing in ALL section. But when we select any specific category like Domestic Travel or Foreign Travel, that button is not working to display that category's images.

