



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

Summer 21-22

Section: A

Software Quality and Testing

Ghurifhiri.com

A Report submitted By

SN	Student Name	Student ID
1	Mahfuza Sharmili Jui	19-39398-1
2	Diganto Bhowmik	19-40691-1
3	Ibrahim Arafat Mohim	19-40302-1
4	Susmita Bahadur	18-38745-3

Under the supervision of

Abhijit Bhowmik

Associate Professor

Department of Computer Science

Faculty of Science & Technology

American International University-Bangladesh

Software Test Plan

for

Ghurifhiri.com

Version 1.0 approved

Prepared by

Jui, Mahfuza Sharmili

Bhowmik, Diganto

Mohim, Ibrahim Arafat

Bahadur, Susmita

Computer Science and Engineering

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REVISION HISTORY

Revision	Date	Updated By	Updated Comment
0.1	06-08-22	Jui	1st Draft
0.2	08-08-22	Mohim	2nd Draft
0.3	10-08-22	Diganto	3rd Draft
0.4	12-08-22	Susmita	4th Draft
0.5	13-08-22	Jui	5th Draft
0.6	14-08-22	Mohim	6th Draft
0.7	16-08-22	Diganto	7th Draft
0.8	18-08-22	Susmita	8th Draft

1. TEST PLAN IDENTIFIER: **TP-PGT01.1**

2. INTRODUCTION

2.1 Background to the Program

When people desire to travel or go on vacation, they often face a myriad of challenges that must be overcome. They have difficulty locating tickets online or paying for them through the internet, particularly for flights. And when people want to go on vacation, they don't always get the right advice, so they turn to websites like YouTube or Facebook to read reviews and get assistance from those sources. However, they end up running into a lot of problems along the way, such as inaccurate hotel bookings and transportation arrangements. And if someone wants to travel along that route but is not familiar with the area, they are going to run into a lot of difficulties along the way. And if somebody wants to take a trip outside the country, they should put their plans on hold because they will run into a lot of difficulties with the local languages, the transportation, and a lot of other things.

2.2 Solution to the Program

This project will be made to help people who have trouble going on trips where they don't know much about the location or buying tickets online, especially for flights. People who need help can go to our website, where they can easily find the destination.

The Travel Management System (TMS) is a complete software system that enables end-users and travel agencies to handle service providers, reservations, pricing, tracking and other things. The capacity to cut expenditures normally paid as a result of travel is a significant advantage of travel management. This may include anything from the cost of air tickets and hotel rooms to the payments made for holiday packages. Generally, travel management specialists will have industry contacts and enough experience to find or negotiate the best deals. Users can also

review and see the reviews from other people about a package or event provided by the travel agents.

3. REQUIREMENT SPECIFICATION

3.1 System Features

Requirement ID	Date	Requirement Description	Dependencies	Originator
FR-01	02-08-22	Two types of users: customer and travel agent registration; store their credentials in the database.	Users need to have valid and unique email address, strong password as well as other valid information.	Junior Developer
FR-02	02-08-22	Authenticate valid users of the system and log them in.	Must be a registered user.	Junior Developer
FR-03	02-08-22	Users can edit their profile.	Must be a registered user.	Junior Developer
FR-04	05-08-22	Packages and events can be created, edited, and deleted by the travel agent.	Must be a valid events or package.	Junior Developer
FR-05	07-08-22	Travel agents are able to track which customers have purchased their packages and events.	Must be a valid travel agent.	Senior Developer
FR-06	09-08-22	Customers can see all the packages and events that have been created by travel agents.	Must be a valid customer.	Junior Developer
FR-07	09-08-22	Customers can purchase events and packages.	Customers must have valid payment details.	Senior Developer
FR-08	11-08-22	Customers can see which packages and events were bought from which travel agent.	Database	Senior Developer
FR-09	06-08-22	Customers can review the event or packages based on their experience.	Must have bought the package or event they are reviewing.	Junior Developer

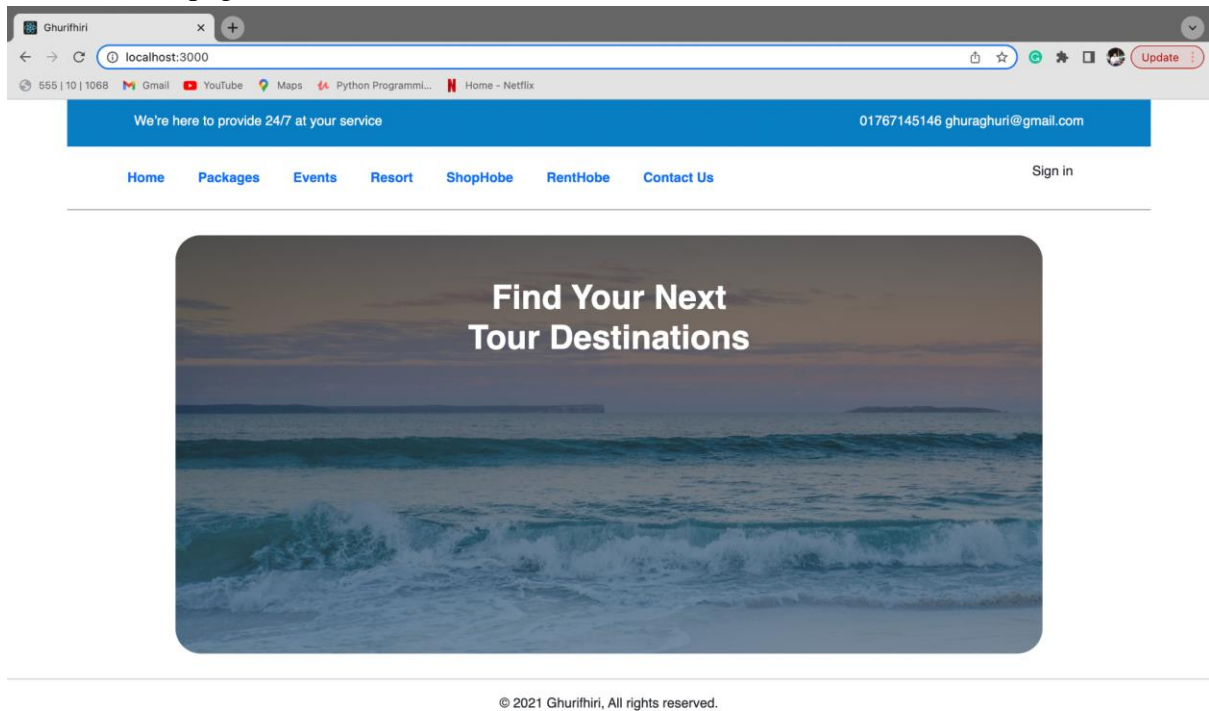
FR-10	03-08-22	Admin can create admin, travel agent, and customer.	Must be an authenticated admin.	Junior Developer
FR-11	01-08-22	Admin can see the statistical data of users, purchases and offered packages.	Must be an authenticated admin.	Senior Developer
FR-12	12-08-22	Admins can delete posts; block customers and travel agents.	Must be an authenticated admin.	Senior Developer

3.2 System Quality Attributes

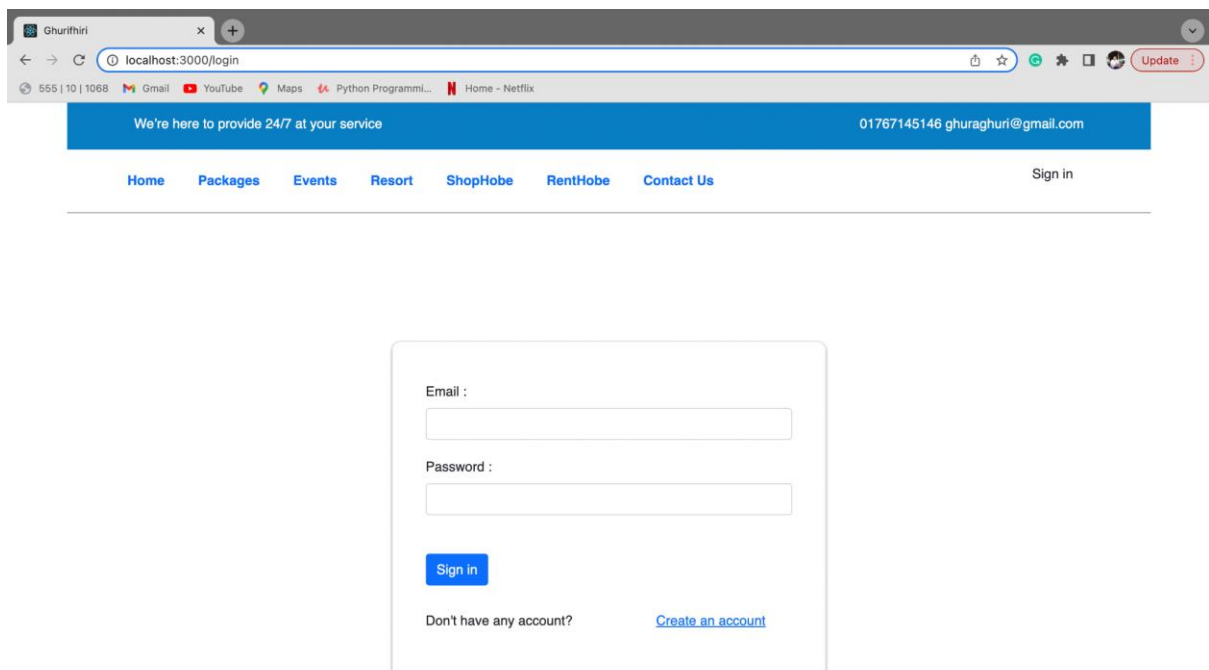
Requirement ID	Date	Requirement Description	Dependencies	Originator
NF-0.R1	13-08-22	Security	Program	Software Engineer
NF-0.R2	13-08-22	Usability	Program	Junior Developer
NF-0.R3	13-08-22	Maintainability	Program	Senior Developer
NF-0.R4	14-08-22	Scalability	Program	Software Engineer
NF-0.R5	14-08-22	Performance	Program	Senior Developer
NF-0.R6	15-08-22	Reliability	Program	Senior Developer

3.3 System Interface

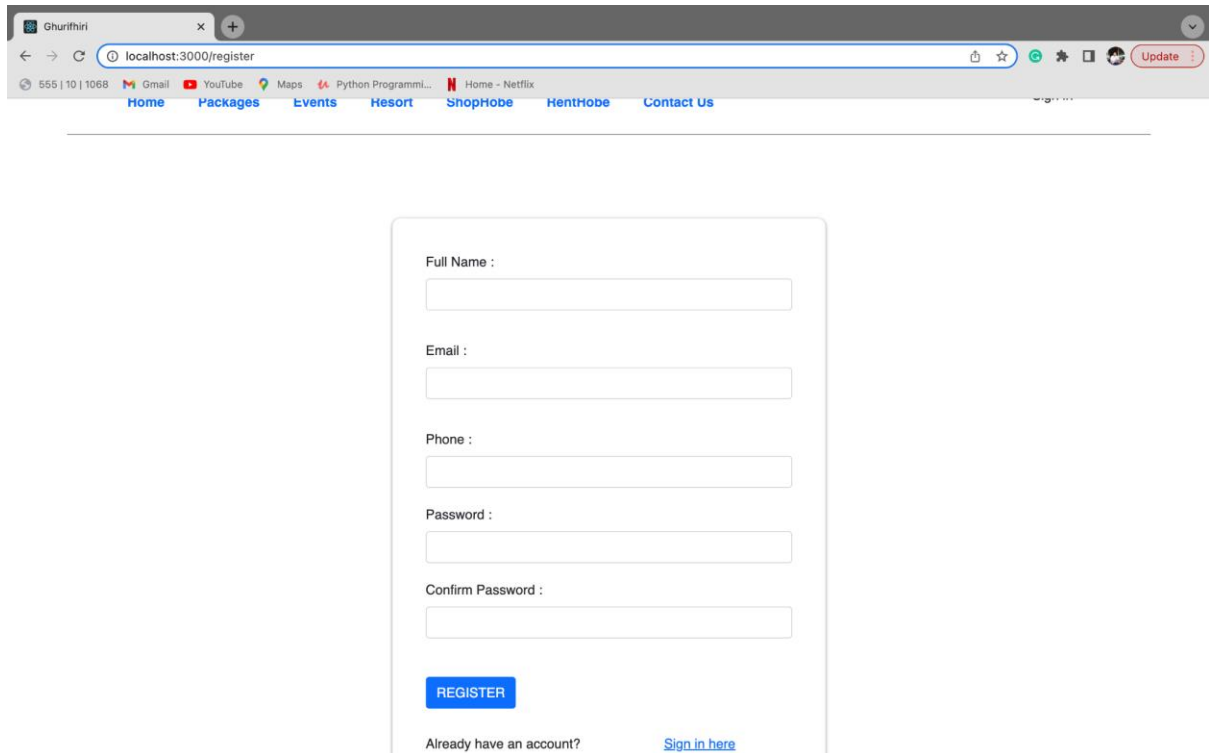
1. Home page



2. Login Page

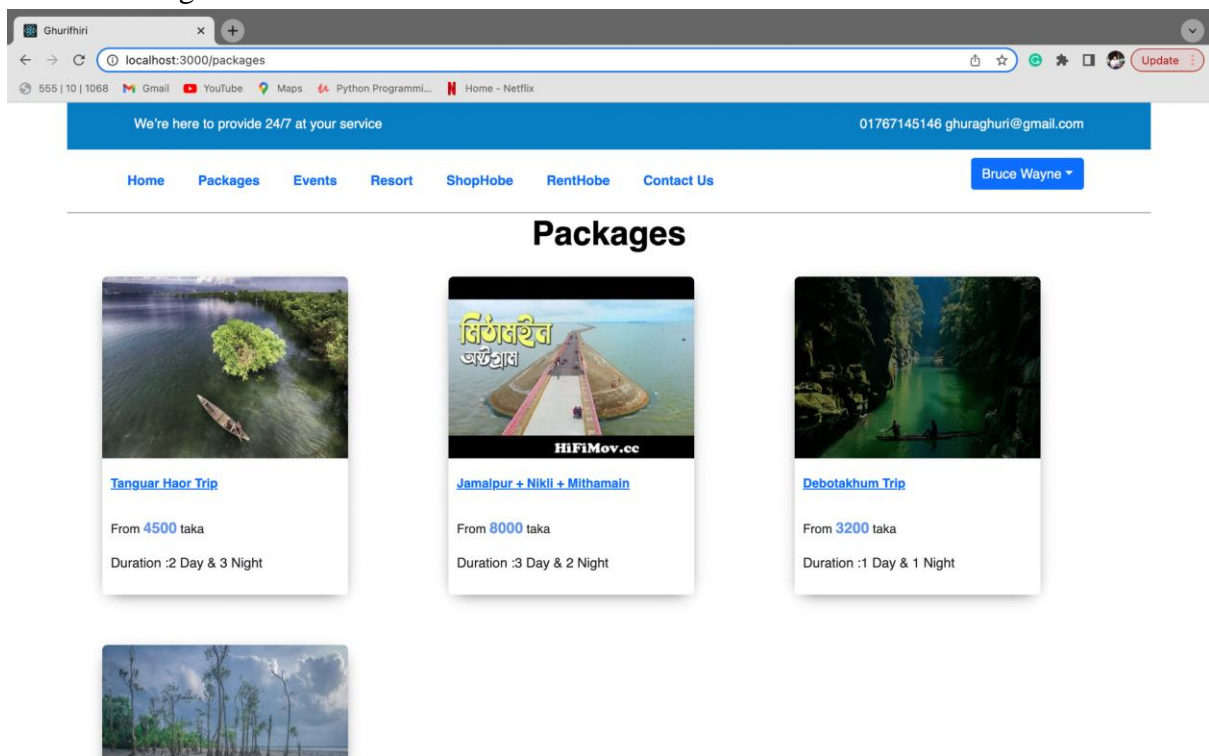


3. Registration Page



A screenshot of a web browser showing the registration page at localhost:3000/register. The browser's address bar shows the URL. Below the browser window, a registration form is displayed with the following fields: Full Name, Email, Phone, Password, and Confirm Password. Each field has a corresponding input box. Below the form is a blue 'REGISTER' button. At the bottom of the form, there is a link 'Sign in here' for users who already have an account.

4. Packages List



A screenshot of a web browser showing the packages list page at localhost:3000/packages. The browser's address bar shows the URL. Below the browser window, a blue header bar contains the text 'We're here to provide 24/7 at your service' and a phone number '01767145146 ghuraghuri@gmail.com'. Below the header bar, a navigation menu includes links for Home, Packages, Events, Resort, ShopHobe, RentHobe, and Contact Us. A user profile dropdown menu shows 'Bruce Wayne'. The main content area is titled 'Packages' and displays three package cards. Each card features a scenic image, a title, a price, and a duration. The packages are: Tanguar Haor Trip (From 4500 taka, Duration: 2 Day & 3 Night), Jamalpur + Nikli + Mithamain (From 8000 taka, Duration: 3 Day & 2 Night), and Debotakhum Trip (From 3200 taka, Duration: 1 Day & 1 Night). A fourth package card is partially visible at the bottom left.

5. Package Details

The screenshot shows a web browser window with the URL `localhost:3000/packageDetails/3`. The page has a blue header with the text "We're here to provide 24/7 at your service" and a phone number "01767145146 ghuraghuri@gmail.com". Below the header is a navigation bar with links: Home, Packages, Events, Resort, ShopHobe, RentHobe, Contact Us, and a user profile button for "Bruce Wayne".

The main content area is titled "Package Details" and contains a table with the following information:

Name:	Tanguar Haor Trip
Price:	4500
Short Description:	2 Day & 3 Night
Description:	Breakfast কুটিপোতা + ভাল/ভাজি + ডিম ভাজি + চা / কোন্ড ড্রিন্‌স + মিনারেল ওয়াটার Lunch ভাত মুরগী ভুনা মাছ ভর্তা ভাল মিনারেল ওয়াটার Dinner ভাত দেশী মুরগী ভুনা আলু ভর্তা ভাল মিনারেল ওয়াটার

Below the table is a "Date" field with the value "08/12/2022" and a calendar icon. At the bottom of the form is a blue "Confirm order" button.

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3.4 Project Budgets

Effort Estimation:

Our project is to develop an application named “Ghurifhiri”.

Development Time = 1 Months

Required number of peoples = 4

Budget Estimation:

Duration in weeks = 4 weeks

Office days = 6 days

Working hours = 9 Hours

So Per week working hours is = $(6*9)$ hours

= 54 hours

So Total Working hours is = $(54*4)$ hours

= 216 hours.

Employee’s salary is = 1200 Taka

Total Salary = (1200*216) Taka

= 259200 Taka

<u>Expense</u>	Amount	Total Amount
Salary for 4 employees		259200 Taka
1 month office rent	1*15000	15000 Taka
Electricity and other costs		5000 Taka
1 month Maintenance cost	4*5*500	10000 Taka
Travel Cost	1*5000	5000 Taka
Total Cost		294200 Taka
15% of the total cost(profit)		44130 Taka
Now total budget is		338330 Taka

4. FEATURES NOT TO BE TESTED

- Edit Admin Profile (Personal Information)
- Statistical data of users, purchases
- Networking Testing
- Language (Default language is English)

5. TESTING APPROACH

5.1 Testing Levels

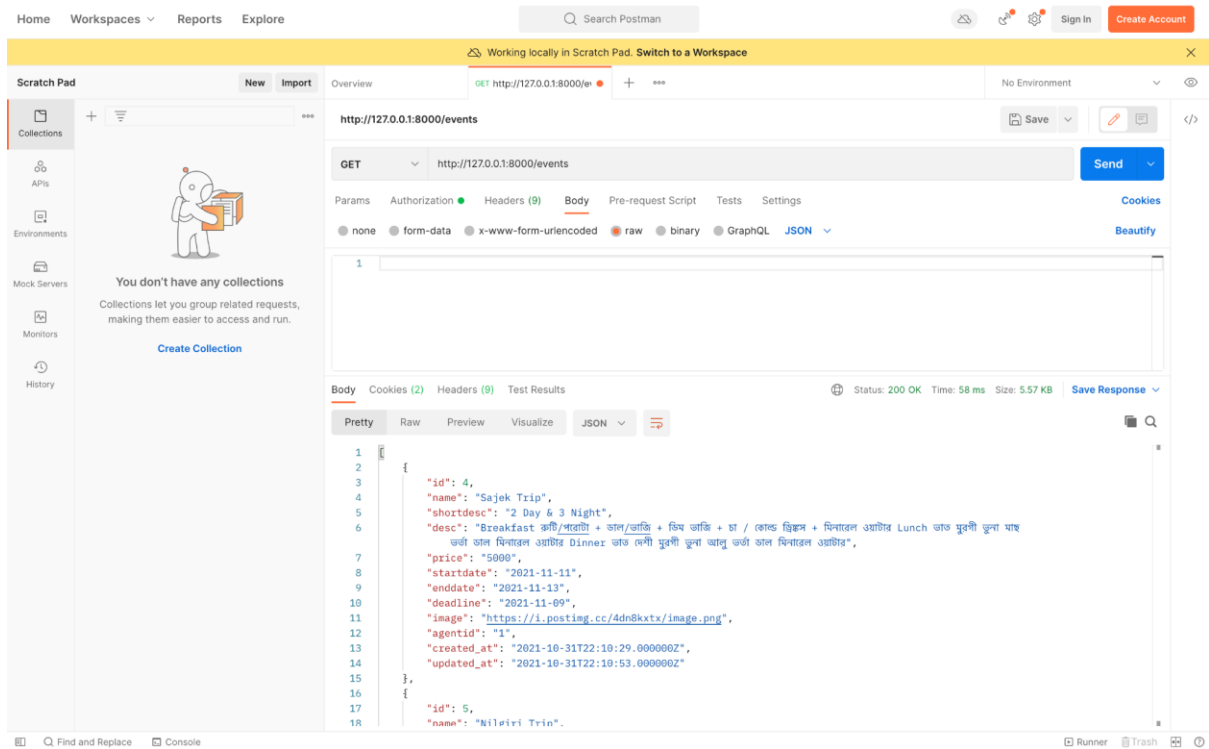
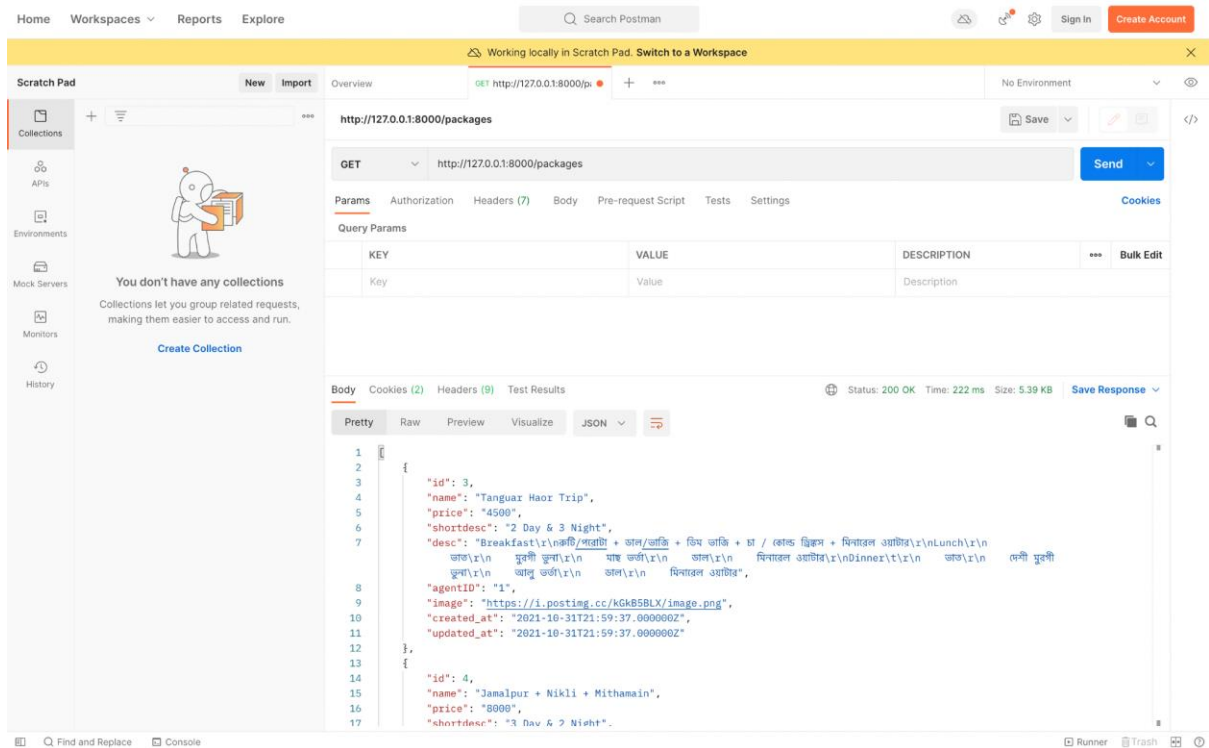
Unit Testing: This level of testing is done by the developers to ensure that the functionality developed by the developers is working correctly according to the expectation. In this level the lead developer approves the module and integrates it with the system level and passes it to the SQA team. In this process, it only finds out the defects for this particular unit and needs to work around to make the unit functional to meet the expectation.

System/ Integration Testing: In this level, all the modules are integrated and a system level test will be conducted by the test manager and SQA engineers to find out the existing bugs which were not able to detect on unit testing. This level of testing is time consuming and expensive. By this level of testing most of the major defects have been detected and need to work around the application to remove the bug and make the system properly functional.

Acceptance Testing: This level of testing is done by some of the potential users, business personnel of the department and the project lead to ensure that the application meets the stockholders' expectations. This testing is only conducted to find out defects rather to ensure that the application meets the acceptance criteria. After the System/Integration test is completed, the acceptance test will run in parallel with the existing creating user manuals and instructions processes for one month.

5.2 Test Tools

1. Postman



2. Selenium

```
HelloSelenium.java X
1 package sele;
2
3 import org.openqa.selenium.By;
4
5
6
7 public class HelloSelenium {
8     WebDriver driver;
9
10    public void lunch()
11    {
12        System.setProperty("webdriver.chrome.driver", "/Users/diganto/Data/Selenium/untitled/chromedriver");
13        driver = new ChromeDriver();
14        driver.get("http://localhost:3000/");
15        driver.findElement(By.linkText("Sign in")).click();
16        driver.findElement(By.name("email")).clear();
17        driver.findElement(By.name("password")).clear();
18        driver.findElement(By.name("email")).sendKeys("batman@email.com");
19        driver.findElement(By.name("password")).sendKeys("123456");
20        driver.findElement(By.name("submit")).click();
21        driver.findElement(By.linkText("Packages")).click();
22        driver.findElement(By.linkText("Tanguar Haor Trip")).click();
23        driver.findElement(By.name("Date")).sendKeys("15/08/2022");
24        driver.findElement(By.name("Confirm order")).click();
25
26    }
27
28    public static void main(String[] args) {
29        HelloSelenium obj = new HelloSelenium();
30        obj.lunch();
31    }
32 }
33
```

5.3 Meeting

Meeting Date	Meeting Criteria	Object
08-08-22	Checking of system features and quality attributes	<ul style="list-style-type: none">● Check the Functional & Nonfunctional requirements● System's working process
14-08-22	Error & Bug Solving	<ul style="list-style-type: none">● After detecting bugs list down● Solve the bugs● Preparation for safety
16-08-22	Conclusive	<ul style="list-style-type: none">● Check the listed documentation● Recheck the requirements● Run the full system

6. TEST CASES

Test Case 1: Registration

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Registration_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Susmita Bahadur		
Module Name: Registration		Test Execution date: 13-08-2022		
Test Title: Verifying registration module				
Description: Test the Travel-Management-System website registration session				
Precondition (If any): 1. Need to use an unique email id and username (Doesn't present in the system Database)				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site registration page 2. Fill up the information 3. Click on the “registration” button	Email: abbbccc Username : SB Name : Susmita Pass: 123456 Confirm Pass: 123456 Terms & Condition Check Box : Checked	Successful Registration	Failed registration for invalid email	Fail
Post Condition: User will go back to the login page.				

Test Case 2: Login

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Login_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Susmita Bahadur		
Module Name: Login		Test Execution date: 13-08-2022		
Test Title: Verifying login module				
Description: Test the Travel-Management-System website login session.				
Precondition (If any): 1. User need to register into the system				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site login page 2. Fill up the information 3. Click on the “login” button.	Username : SB Pass: 123456	Successful Login	Successful	Pass
Post Condition: User will go into the Home page.				

Test Case 3: Logout

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Logout_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Susmita Bahadur		
Module Name: Logout		Test Execution date: 13-08-2022		
Test Title: Verifying logout module				
Description: Test the Travel-Management-System website logout session.				
Precondition (If any): 1. User need to login into the system				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site's home page. 2. Click on the “logout” button.	N/A	Successful Logout	Successful	Pass
Post Condition: User will go back to the login page.				

Test Case 4: Edit Profile

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: EditProfile_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Susmita Bahadur		
Module Name: Edit_profile		Test Execution date: 13-08-2022		
Test Title: Verifying edit profile module				
Description: Test the Travel-Management-System website profile edit session				
Precondition (If any): 1. User need to login into the system.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site home page 2. Click on the “edit profile” button 3. Change the profile information 4. Press on “save” button	Old Name : Susmita New Name : Prionty	Successful Update Profile	Successful	Pass
Post Condition: User will go into the Home page.				

Test Case 5: Create Package

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Create_Package_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Susmita Bahadur		
Module Name: Create_package		Test Execution date: 13-08-2022		
Test Title: Verifying create package module				
Description: Test the Travel-Management-System website to create a package session.				
Precondition (If any): 1. Users need to login into the system from an admin account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site's home page. 2. Go to the create package page. 3. Fill up the information 4. Click on the “create” button.	Travel from : Dhaka Travel to : Cox’s Bazar No of Person : 2 Hotel: Royel Tulip Number of night : 3 Price : BDT 50000 Complimentary : Breakfast	Successful Package Creation	Successful	Pass
Post Condition: User will go into the Package List page.				

Test Case 6: Edit Package

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Edit_Package_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Susmita Bahadur		
Module Name: Edit_package		Test Execution date: 13-08-2022		
Test Title: Verifying edit package module				
Description: Test the Travel-Management-System website edit package session.				
Precondition (If any): 1. Users need to login into the system from an admin account. 2. Users have to create a package first.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site's home page. 2. Go to the package list page. 3. Click on the “edit” button. 4. Change the package information.	Old Price : BDT 50000 New Price : BDT 46000	Successfully Update Package	Successful	Pass

Post Condition: User will go into the Package List page.

Test Case 7: Delete Package

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Delete_Package_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): Medium		Test Executed by: Susmita Bahadur		
Module Name: Delete_package		Test Execution date: 13-08-2022		
Test Title: Verifying delete package module				
Description: Test the Travel-Management-System website delete package session				
Precondition (If any): 1. Users need to login into the system from an admin account. 2. Users have to create a package first.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site home page 2. Go to the package list page 3. Click on the “delete” button	N/A	Successful Delete Package	Successful	Pass

Post Condition: User will see the updated Package List page.

Test Case 8: View Package

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: View_Package_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Susmita Bahadur		
Module Name: View_package		Test Execution date: 13-08-2022		
Test Title: Verifying view package module				
Description: Test the Travel-Management-System website view package session				
Precondition (If any): N/A				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site’s home page. 2. Go to the package list page. 3. Click on the “view” button.	N/A	Successfully View Package	Successful	Pass

Post Condition: Users will be able to see the Package Details.

Test Case 9: Create Event

Project Name: Travel-Management-System		Test Designed by: Susmita Bahadur		
Test Case ID: Create_Event_01		Test Designed date: 13-08-2022		
Test Priority (Low, Medium, High): High		Test Executed by: Susmita Bahadur		
Module Name: Create_event		Test Execution date: 13-08-2022		
Test Title: Verifying create event module				
Description: Test the Travel-Management-System website create event session.				
Precondition (If any): 1. Users need to login into the system from an admin account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

1. Go to the site home page. 2. Go to the “create event” page. 3. Fill up the information. 4. Click on the “create” button	Event name : Eid-ul-fitr offer Discount Coupon Code : TMS20	Successful Create Event	Successful	Pass
Post Condition: Users will be able to see the Event List.				

Test Case 10: Create User

Project Name: Travel-Management-System	Test Designed by: Susmita Bahadur
Test Case ID: Create_User_Admin_panel_01	Test Designed date: 13-08-2022
Test Priority (Low, Medium, High): High	Test Executed by: Susmita Bahadur
Module Name: Create_user	Test Execution date: 13-08-2022
Test Title: Verifying create user module	
Description: Test the Travel-Management-System website create user session from admin panel.	
Precondition (If any): 1. Users need to login into the system from an admin account.	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site's home page. 2. Go to the "add user" page. 3. Fill up the information. 4. Click on the "create" button.	Email: sb@gmail.com Username : SB Name : Susmita Pass: 123456 Confirm Pass: 123456	Successfully Create User	Successful	Pass
Post Condition: Admin will get the confirmation message and be able to see the updated User List.				

Test Case 11: Block User

Project Name: Travel-Management-System	Test Designed by: Susmita Bahadur
Test Case ID: Block_User_01	Test Designed date: 13-08-2022
Test Priority (Low, Medium, High): Medium	Test Executed by: Susmita Bahadur
Module Name: Block_user	Test Execution date: 13-08-2022
Test Title: Verifying block user module	

Description: Test the Travel-Management-System website block user session from admin panel				
Precondition (If any): 1. Users need to login into the system from an admin account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site’s home page. 2. Go to the user list. 3. Search for particular user. 4. Click on the “block” button.	Email/Username: sb@gmail.com /SB	Successful Block User	Successful	Pass
Post Condition: Admin will get the confirmation message and be able to see the updated User List. The Blocked user will be marked as red.				

Test Case 12: User Review

Project Name: Travel-Management-System	Test Designed by: Susmita Bahadur
Test Case ID: User_Review_01	Test Designed date: 13-08-2022
Test Priority (Low, Medium, High): Low	Test Executed by: Susmita Bahadur
Module Name: User_review	Test Execution date: 13-08-2022

Test Title: Verifying user review module				
Description: Test the Travel-Management-System provide review session				
Precondition (If any): 1. Users need to login into the system. 2. User must have used a package.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site home page. 2. Go to the used package list. 3. Click on the “review” button.	Review: Excellent Service and customer support. User Rating: 9/10	Successfully Provide Review	Successful	Pass
Post Condition: User will see the review page with the review he/she has provided.				

7. ITEM PASS/FAIL CRITERIA

- With valid information, the registration should be done.
- The user profile should be created.
- A valid user name and password should be given.
- Users should be able to edit their profiles..
- The page transaction should be smooth.
- Packages and events can be viewed, created, edited and deleted smoothly.
- Admin can view the statistical data without any compilation errors.
- Admin is able to block any type of user and delete posts.
- There should be no errors during the transaction and payment process.
- The test cases should be properly documented.
- All reports should be maintained.
- All problem documents should be viewed by the valid user account.
- Item pass/fail criteria depends on Test Cases. 100% defect free system is not possible.
- If 98% or above 98% test cases are pass then the system is passed.
- If below 98% test cases are passed then the system is failed.

Here we have implemented a total of 12 test cases. At first, when applied the test case to the system, 60% of the test cases were passed successfully and 40% failed. The test cases were failing due to some logical errors and query related issues on the database. When the test case was applied after solving query related problem, all the test cases passed successfully.

8. TEST DELIVERABLES

- Test Documentation
- Test Plan
- Test Strategy
- Test Scenario
- Test Designs
- Test Cases
- Test data
- Test Results
- Errors
- Bug report
- Test Summary Report
- Test Status report
- Test Scripts

9. STAFFING AND TRAINING NEEDS

Depending on the project, different methods will be used for staffing and training. If this section is a component of a Master Test Plan, it should specify the stages of the project lifecycle at which various staffing levels and skill sets are required. If this is an iteration test plan, the primary attention should be on the potential training locations and activities.

The EDI interface's fundamental functions will need to be taught to the developers and testers.

The test team frequently needs the assistance and expertise of other team members who are not formally a part of the test team. System administrators, database administrators, and developers must be scheduled appropriately in the plan in order to support the testing activities.

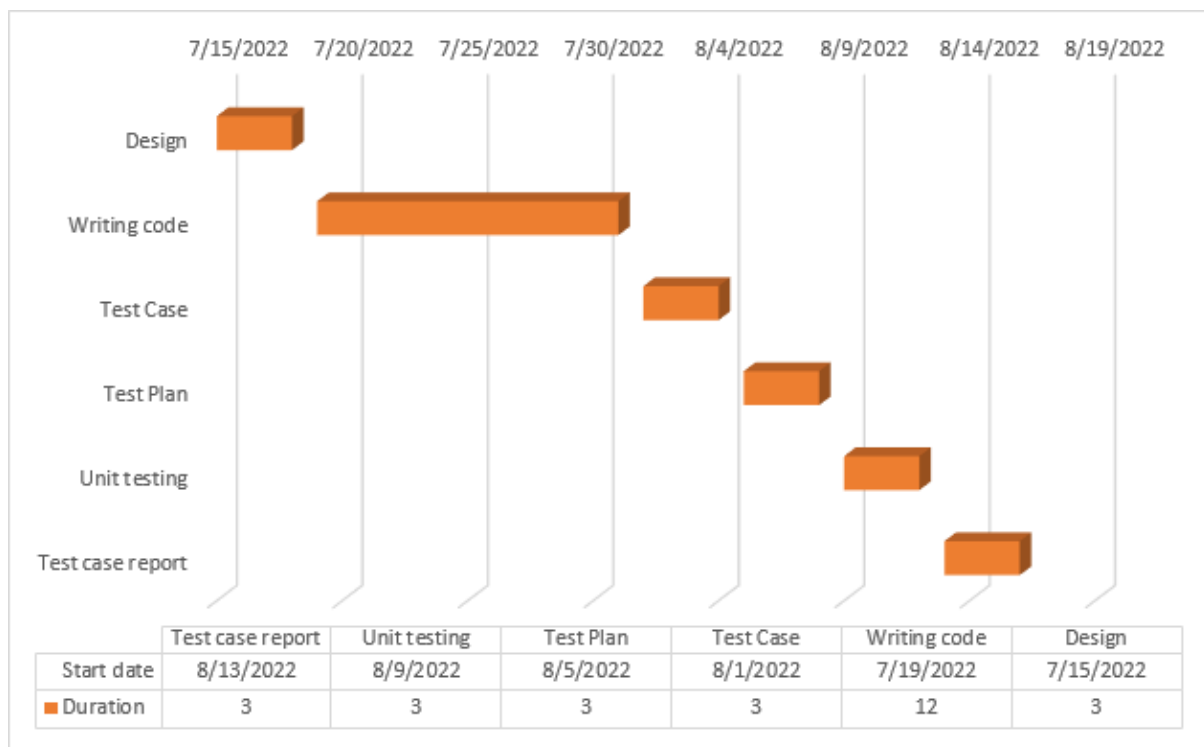
10. RESPONSIBILITIES

<i>Name</i>	<i>Role</i>	<i>Responsibilities</i>
Mahfuza Sharmili Jui	Project Manager	<ol style="list-style-type: none">1.Ensure the completion of the Project in due time.2. Conduct required interactions with customers.3. Manage the whole project and team.4. Match the completed project with the requirements.
Diganto Bhowmik	Senior Developer	<ol style="list-style-type: none">1. Research, design, implement and manage software programs.2. Write and implement efficient code.3. Deploy software tools, processes and metrics.

Ibrahim Arafat Mohim	Lead Quality Assurance Engineer	<ol style="list-style-type: none"> 1. Create test plans, test forms, test cases and test information. 2. Develop test cases and prioritize testing activities. 3. Prepare all reports related to program testing carried out.
Susmita Bahadur	Lead Quality Control Engineer	<ol style="list-style-type: none"> 1. Characterize the testing activities of test planning. 2. Check if all the tools and fundamental assets are available to execute the test cases. 3. Execute all the test cases and report defects.

11. TESTING SCHEDULE

Task Name	Duration	Responsible
Design	3 days	Project Manager & Senior Developer
Writing code	12 days	Senior Developer
Test plan	3 days	Lead Quality Assurance Engineer & Project Manager
Unit testing	3 days	Senior Developer, Junior Developer
Test case	3 days	Lead Quality Control Engineer
Test case report	3 days	Test Engineer



12. PLANNING RISKS AND CONTINGENCIES

Risk	Probability	Impact	Mitigation
Error in function execution	Medium	Medium	Test the web app frequently and maintain daily backup.
Error due to invalid input	High	Low	Train user to use right data type in each input field
Loss of encrypted data(password)	Medium	High	Maintain security check and backup
Database query execution error	Low	High	Recheck the queries and logics

13. APPROVALS

Position	Assigned
Project Manager	Development Plan

Development Management	Integration test
Design Manager	Interface
Test Team Lead	Test Plan
Test Engineer	Functionality test
QA Manager	Review Test Case
Client	Acceptance Testing

14. REFERENCES

- Software Requirement Engineering Document
- Software Quality And Testing Course PowerPoint Slides
- [Types of software Testing- geeksforgeeks.org](https://www.geeksforgeeks.org/types-of-software-testing/)
- Selenium tool
- Postman Software