

STIWK3024 SOFTWARE TESTING AND QUALITY ASSURANCE

GROUP A

PROJECT REPORT

AIRLINE RESERVATION SYSTEM

PREPARED FOR:

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PREPARED BY: GROUP 11

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1.0 Introduction

The Airline Reservation System is designed to manage and streamline the complex booking and air travel process. This system allows passengers to search for available flights between a selected "Departure City" and "Arrival City" for their chosen date. The system displays all essential details about each flight, including flight number, airline name, and fare information, simplifying the booking process for users. If seats are available, the system enables passengers to book them; if not, it suggests alternative options.

Traditional airline reservation methods relied on manual entry, which often led to errors, slow processing times, and other inefficiencies. The TWC (Travel With Comfort) Airline Reservation System addresses these issues by automating booking operations, providing users with a faster, more reliable, and user-friendly experience.

By implementing the Airline Reservation System, airlines can reduce human error, save time, and improve customer satisfaction. The application simplifies administrative tasks and centralizes data storage, making it easier to access and manage essential information about flights, users, and bookings. Through automation, this system ensures efficient and accurate processing, making the airline reservation experience more convenient and accessible.

2.0 Test Plan

2.1 Test Plan Identifier

The version number of this test plan is generated to identify the plan, its testing level, and the corresponding software version. This test plan is for system testing, which evaluates the entire system. The software will be updated as errors are discovered and resolved.

2.1.1 Type of Test Plan

There is a master test plan, which is a high-level document that consolidates all individual test plans for a project or product. Additionally, there are testing level-specific and testing

type-specific test plans, created for each testing level and major type of testing. Test plans are categorized into three levels: system level, integration level, and unit level.

In this test plan, we will conduct a system-level test.

2.2 References

The documents that support this test plan:

- Project Plan
- Requirement specifications
- System design document
- Detail implementation module

2.3 Introduction of Test Plan

This document outlines a system-level test plan for the Airline Reservation System. To conduct the testing, the black-box testing technique will be used, specifically the equivalence partitioning method. This method ensures that both valid and invalid test cases and data are tested, verifying their correctness.

This test plan will identify which functionalities need to be tested and which do not, and it will evaluate both valid and invalid test cases. By testing all inputs, we can determine whether they pass or fail. The testing process will include both manual and automated testing using Selenium IDE.

2.4 Test items

This system will be tested at the system level. It includes the front-end customer-facing website and the back-end admin-facing website in this airline reservation system. This system should be tested in the latest stable version of Google Chrome, Firefox, or Microsoft Edge. Windows machines will also be a must when testing.

2.5 Features To Be Tested

Features to be tested include the following:

As a User	As an Admin
Registration for new user	Registration for new admin
Log in to the system	Log in to the system
Update Password	Insert New Flights
Flight Search	Filter Search
View Available Flights	

2.6 Features Not To Be Tested

Only the functionality of the application on desktop web browsers will be tested.

2.7 Approach

Testing will be carried out in accordance with the documented test cases maintained within the browser automation framework. The test manager will be responsible for creating distinct test runs for each tester involved in the process. Each tester will execute the designated tests, categorizing each case as Pass, Fail, or Skip based on the outcomes. The testing approach is using one of the black box testing technique which is Equivalence Partitioning. It is essential that testers provide detailed notes regarding the actual results and any pertinent information when feasible.

Once testing is completed, the test manager will thoroughly review the test run reports generated and communicate the findings to the team, facilitating transparency and informed decision-making. This structured testing process not only ensures the validation of the application but also fosters collaboration among team members by keeping everyone informed of the testing outcomes and any necessary follow-up actions.

2.8 Pass/Fail Criteria

It is essential that all core functionalities of the systems operate seamlessly and in accordance with the specifications outlined in the individual test cases. This means that the system should demonstrate reliability and performance without any critical defects, ensuring that end-users can effortlessly complete the entire purchase cycle, including initiating refunds, without experiencing any errors. Furthermore, a minimum of 95% of all test cases should pass successfully, and it is imperative that any failures do not impede the fundamental tasks required for user interaction with the application. By following these guidelines, we can ensure that the system not only meets user expectations but also provides a reliable platform for all transactional processes.

2.9 Suspension Criteria

Testing should be immediately suspended if either system encounters login failures or any issues with core CRUD functionality. More broadly, testing will only be interrupted if the application becomes completely inaccessible or unusable. Any interruption in essential operations, such as user authentication or basic data management, will be treated as critical, and testing will not resume until these issues are resolved. This approach ensures the system remains functional and stable throughout the testing phase, maintaining the integrity of the evaluation process.

2.10 Test Deliverables

The following deliverables will be produced:

No	Deliverable
1	Test Plan
2	System Testing Results
3	Final Testing Report

The reports will deliver a full overview of the test cases and the outcomes of the testing operation. Any defects discovered during testing will be reported in the bug tracking system, with references to the time of discovery and the actions taken to replicate that issue.

2.11 Testing Tasks

The following tests must be completed.

2.11.1 Testing Process

- The tester must first download the code in GitHub via https://github.com/iamashwinks/Airline-Reservation-System-/tree/master
- Next, the tester must import the SQL file into the PHPMyAdmin
- Then, the tester needs to access the system and run all the fields that need to be tested to verify the validity and invalidity of the system so that it will meet the software standard.
- If there were any issues that the tester discovered during the testing processes they were documented.

Setup Selenium IDE:

- Install the Selenium IDE browser extension.
- Ensure the test environment is ready, including test data, browsers, and any necessary tools.

Record Test Cases:

- Open Selenium IDE and click the "Record" button.
- Navigate through the Airline Reservation System (ARS) website to perform test scenarios, such as **User Registration**, **Login**, or **Flight Search**.
- Selenium IDE records all interactions with the application, including field entries, button clicks, and navigation actions.

Define Validation Points:

- Add assertions to check whether the test is successful. For instance:
 - Verify if a successful login redirects the user to the correct dashboard.
 - Confirm that the flight search displays expected results based on input criteria.

Customize and Parameterize Test Cases:

• Modify recorded scripts to add dynamic inputs using the IDE's "Variables" feature.

• This allows testing with multiple valid and invalid data sets, as specified in your document's equivalence partitioning technique.

Run Automated Tests:

- Execute the recorded test cases using the "Play" button in Selenium IDE.
- Run the tests for all supported browsers to ensure cross-browser compatibility (e.g., Chrome, Firefox, Edge).

Analyze Test Results:

- Review the test case execution results displayed in Selenium IDE.
- If a test fails, analyze logs to determine the cause (e.g., a defect in the system, incorrect test setup).

Report Defects:

• Document any identified defects and log them in the bug-tracking system, including steps to reproduce the issue and relevant test data.

Repeat for Regression Testing:

• Saved test cases perform regression testing after fixes are applied to ensure no new issues are introduced.

Maintain and Update Test Cases:

• Update the recorded scripts to accommodate changes in the ARS application during the development lifecycle.

2.11.2 Problem Resolution

 Once any bug is discovered and documented, the bug will be addressed and will be resolved by following the defect reporting mechanism.

2.12 Environment Needs

The test website must contain the test data in the sql file including the variety of prices of the plane at different prices. Xampp, personal laptop, PHP, java JDK, and web browser are needed for the system to be tested. The test mode needed to be enabled for the backend of the airline's system platform.

2.12.1 Hardware

The system is tested by the following hardware resources:

Personal Computer	Dell Latitude 5420
Processor (CPU)	Model: Intel Core i7-1185G7 (11th Generation, Tiger Lake) Architecture: 10nm SuperFin Cores / Threads: 4 cores, 8 threads Base Clock: 3.0 GHz Max Turbo Frequency: 4.8 GHz Cache: 12 MB Intel Smart Cache TDP: 12W (Configurable up to 28W for better performance)
Graphics Card (GPU)	Integrated GPU: Intel Iris Xe Graphics Execution Units (EUs): 96 Base Clock: 400 MHz Max Dynamic Frequency: 1.35 GHz Max Video Memory: Shared with system RAM DirectX Version: 12.1 OpenGL Version: 4.6 Maximum Display Resolution: 4096 x 2304 @ 60Hz (via HDMI or DisplayPort)
RAM	16GB RAM single Channel 3200MHz

2.12.2 Software

Testing will be conducted in Monzila Firefox and Selenium IDE.

2.13 Responsibilities

The Test Manager is responsible for conducting the testing, the modules to be tested, and the schedule for all the testers. Each tester must meet the expectation of the requirement and a certain level of quality that is needed. The test manager is also responsible for communicating and is directly involved in the completion of the testing.

Responsible	Egil Tan	Kh'ng Wei Xin	Nilam	Kirthika
Tester			Muhammad	C.Krishnan
			Azrilluqman Bin	
			Jaafar	
Module to be	User	Admin	Admin	Insert New
tested	Registration and	Registration and	Registration and	Flight and User
	User Login	Admin Login	Admin Login	Flight Search
Internal Due	17/10/2024	17/10/2024	17/10/2024	17/10/2024

2.14 Risk and Contingencies

If the first round of the testing was not completed by the internal due, it will cause a delay in the testing phases and also the final testing of the system. If this happens, the team will be pushed back and hopefully, it will not affect the due date of the final report. Finally, if the tester does not have a basic understanding of the system that needs to be tested the test also will be pushed back and eventually, the test will not meet the SOP and quality of the testing that we need.

2.15 Approvals

Both the test manager and product manager must agree on the quality of the completion test and determine whether the system could be pushed to the next step of the testing.

3.0 Test Case Design

No.	Fields	Types of fields	Valid Class	Test Data (Valid)	Invalid Class	Test Data (Invalid)
1.	User Registration Username	Alphanu meric characte rs	Letters, numbers , and symbols	User123!@ #	{blankspace}	{blankspace}
2.	User Registration Email	Alphanu meric characte rs	Valid email format: example @ email.co	user@gmai l.com	Invalid email format Missing .com	usergmail.com usergmail
					Starting or Ending with Invalid Characters	user.@gmail.c om
					{blankspace}	{blankspace}
					Spacing Integer only	user@ gmail. Com 123456@gmai l.com
					Symbols only	!@#\$%@gmail. com
3.	User Registration Password	Alphanu meric characte rs	Letters, numbers , and symbols	pw123!@#	{blankspace}	{blankspace}

4.	User Registration Confirm Password	Alphanu meric characte rs	Letters, numbers , and symbols	pw123!@#	{blankspace} Incorrect Password	{blankspace} wp123!@#
5.	User Login Username	Alphanu meric characte rs	Letters, numbers , and symbols	User123!@ #	{blankspace} Incorrect username	{blankspace} wrong!@#
6.	User Login Password	Alphanu meric characte rs	Letters, numbers , and symbols	pw123!@#	{blankspace} Incorrect Password	{blankspace} wp123!@#
7.	Update Password Current Password	Alphanu meric characte rs	Letters, numbers , and symbols	pw123!@#	{blankspace} Incorrect Password	{blankspace} wp123!@#
8.	Update Password New Password	Alphanu meric characte rs	Letters, numbers , and symbols	userpw123! @#	{blankspace}	{blankspace}
9.	Update Password Confirm Password	Alphanu meric characte rs	Letters, numbers , and symbols	userpw123! @#	{blankspace} Incorrect Password	{blankspace} wronguser123! @#

10.	Flight Search Departure	Alphanu meric characte rs	Letters, numbers , and symbols with spacing	Kolkata	{blankspace}	{blankspace}
11.	Flight Search Destination	Alphanu meric characte rs	Letters, numbers , and symbols with spacing	Chennai	{blankspace}	{blankspace}
12	Admin login: username	Alphanu meric characte rs	Exact match: "admin"	admin	blank , incorrect username,	{blankspace}, Admin123, P4z8hK9Lr2Q w1TtVb7XyJ, 123456, !@#\$%^
13	Admin login: password	Alphanu meric characte rs	Exact match: "admin"	admin	Blank, incorrect password	{blankspace}, Password123,
14	Admin Registeratio n: Employee id	Interger	Unique number only	3	{blankspae, Number sign {#} Dollar sign {\$} Percent sign {%} Circumflex accent {^} Ampersand {&}	{blankspace}, abc, 123@, \$123, 125%, >12,

					Asterisk {*}	
					Plus sign {+}	
					Equals sign	
					{=}	
					Alphabet	
					{az,A-Z}	
					Spacing	
15	Admin registration: Employee Name	Alphanu meric characte rs	Letters, numbers , and symbols	Nilam	{blankspace}	{blankspace}
16	Admin registration: Position	Alphanu meric characte rs	Letters, numbers , and symbols	Manager	{blankspace}	{blankspace}
17	Admin Registeratio n: Password	Alphanu meric characte rs	Letters, numbers , and symbols	P@ssword1 23	{blankspace} ,incorrect password, spacing	{blankspace}, P@ssword12 3
18	Admin registration: Confirm password	Alphanu meric characte rs	Letters, numbers , and symbols	P@ssword1 23	{blankspace} , incorrect password, spacing	{blankspace}, Password123, P@ssword123
19	Admin Enter flight details : Plane id	Integer	Unique number only	101	{blankspace} Spacing, Alphabet	{blankspace} 2 1 1 Kj213

20	Admin Enter flight details : Seats	Integer	Integer without spacing	147	{blankspace} Spacing Alphabet Symbols only	{blankspace} 1 4 7 AmN23 !@#\$%^
21	Admin Enter flight details : Planename	Alphanu meri c and symbols	Letters, numbers , and symbols	Air Asia	{blankspace} Integer only Symbols only	{blankspace} 123456 !@#\$%
22	Admin Enter flight details : Pickup	Alphanu meri c and symbols	Letters, numbers , and symbols	Thailand	{blankspace} Integer only Symbols only	{blankspace} 123456 !@#\$%
23	Admin Enter flight details : Destination	Alphanu meri c and symbols	Letters, numbers , and symbols	Sydney	{blankspace} Integer only Symbols only	{blankspace} 123456 !@#\$%

4.0 Test Cases in IEEE

4.1 Manual Testing

Module Name	User Screen	Test Case Description	Test the functionalities of the user section in the system
Tester Name	Wei Xin	Date Tested	2/1/2025
Reviewed By	Nilam	Prerequisites	 Download source code Run in browser
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Manual

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
ARS01	Check User Registration Username with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userlo gin.php 2. Enter Username	User123!@#	Test data can be entered	As expected	Pass
ARS02	Check User Registration Username with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userlo gin.php	{blankspace}	An error message should be displayed	As expected	Pass

		2. Enter Username				
ARS03	Check User Registration Email with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userre gistern.ph p 2. Enter Email	user@gmail .com	Test data can be entered	As expected	Pass
ARS04	Check User Registration Email with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userre gistern.ph p 2. Enter Email	1.usergmail. com 2.usergmail 3.user.@gmail.com 4.{blankspace} 5.user@gmail.com 6.123456@gmail.com 7.!@#\$%@gmail.com	An error message should be displayed	Error messages did not display	Fail
ARS05	Check User Registration Password with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userre gistern.ph p 2. Enter Password	pw123!@#	Test data can be entered	As expected	Pass

ARS06	Check User Registration Password with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userre gistern.ph p 2. Enter Password	{blankspace}	An error message should be displayed	As expected	Pass
ARS07	Check User Registration Confirm Password with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userre gistern.ph p 2. Enter Password	pw123!@#	Test data can be entered	As expected	Pass
ARS08	Check User Registration Confirm Password with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userre gistern.ph p 2. Enter Password	1.{blankspa ce} 2.wp123!@ #	An error message should be displayed	As expected	Pass
ARS09	Check User Login Username with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userlo gin.php 2. Enter Username	User123!@ #	Test data can be entered	As expected	Pass

ARS10	Check User Login Username with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userlo gin.php 2. Enter Username	{blankspace}	An error message should be displayed	As expected	Pass
ARS11	Check User Login Password with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userlo gin.php 2. Enter Password	pw123!@#	Test data can be entered	As expected	Pass
ARS12	Check User Login Password with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/userlo gin.php 2. Enter Password	1.{blankspa ce} 2.wp123!@ #	An error message should be displayed	As expected	Pass
ARS13	Check Update Password Current Password with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/updat e_password.php 2. Enter Current Password	pw123!@#	Test data can be entered	As expected	Pass

ARS14	Check Update Password Current Password with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/updat e passwo rd.php 2. Enter Current Password	1.{blankspa ce} 2.wp123!@ #	An error message should be displayed	As expected	Pass
ARS15	Check Update Password New Password with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/updat e_password.php 2. Enter New Password	userpw123! @#	Test data can be entered	As expected	Pass
ARS16	Check Update Password New Password with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/updat e_password.php 2. Enter New Password	1.{blankspa ce} 2.wronguse r123!@#	An error message should be displayed	Error messages did not display	Fail
ARS17	Check Update Password Confirm Password with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/updat	userpw123! @#	Test data can be entered	As expected	Pass

		e_passwo rd.php 2. Enter New Password				
ARS18	Check Update Password Confirm Password with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/updat e_password.php 2. Enter New Password	1.{blankspa ce} 2.wronguse r123!@#	An error message should be displayed	Error messages did not display	Fail
ARS19	Check Flight Search Departure with valid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/page1 .php 2. Enter Departure Place	Kolkata	Test data can be entered	Test data cannot be entered	Fail
ARS20	Check Flight Search Departure with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/page1 .php 2. Enter Departure Place	{blankspace }	An error message should be displayed	As expected	Pass
ARS21	Check Flight Search	1. Go to site http://loca	Chennai	Test data can be entered	Test data cannot be entered	Fail

	Destination with Valid data	lhost/Airli ne-Reserv ation-Syst em/page1 .php 2. Enter Destinatio n Place				
ARS22	Check Flight Search Destination with invalid data	1. Go to site http://loca lhost/Airli ne-Reserv ation-Syst em/page1 .php 2. Enter Destinati	{blankspace }	An error message should be displayed	As expected	Pass

Module Name	Employee Login	Test Case Description	Test the functionalities employee register section in the system
Tester Name	Nilam	Date Tested	2/1/2025
Reviewed By	Egil	Prerequisites	3. Download source code4. Run in browser
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Manual

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
ARS23	Check username	1. Go to site http://loca lhost/airli nes/emplo gin.php 2. Enter Username	admin	Test data can be entered	As expected	Pass
ARS24	Check Username with invalid data	1. Go to site http://loca lhost/airli nes/emplo gin.php 2. Enter Username	1. blank 2.incorrect username	An error message should be displayed	As expected	Pass
ARS25	Check User password with valid	1. Go to site http://loca	admin	Test data can be entered	As expected	Pass

	data	lhost/airli nes/emplo gin.php 2. Enter password				
ARS26	Check User password with invalid data	1. Go to site http://loca lhost/airli nes/emplo gin.php 2. Enter password	1. Blank, 2. incorrect password	An error message should be displayed	As expected	Pass

Module Name	Employee Register	Test Case Description	Test the functionalities employee register section in the system
Tester Name	Nilam	Date Tested	2/1/2025
Reviewed By	Kirthika	Prerequisites	5. Download source code6. Run in browser
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Manual

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
ARS27	Check employee Registration id with valid data	1. Go to site http://localh ost/airlines/empregister.php 2. Enter employee id	3	Test data can be entered	As expected	pass
ARS28	Check employee Registration id with invalid data	1. Go to site http://localh ost/airlines/empregister.php 2. Enter employee id	{blankspace}, abc, 123@, \$123, 125%, >12, same ID	An error message should be displayed	Error message did not displayed	Fail
ARS29	Check employee Registration name with valid data	1. Go to site http://localh ost/airlines/e mpregister.p hp 2. Enter employee	Nilam	Test data can be entered	As expected	pass

		name				
ARS30	Check employee Registration name with invalid data	1. Go to site http://localhost/airlines/empregister.php 2. Enter employeename	{blankspace}	An error message should be displayed	As expected	Pass
ARS31	Check employee Registration position with valid data	1. Go to site http://localh ost/airlines/e mpregister.php 2. Enter employee position	Manager	Test data can be entered	As expected	Pass
ARS32	Check employee Registration position with invalid data	1. Go to site http://localh ost/airlines/e mpregister.php 2. Enter employee position	{blankspace}	An error message should be displayed	As expected	pass
ARS33	Check User Registration Password with valid data	1. Go to site http://localh ost/airlines/e mpregister.php 2. Enter employee password	P@ssword12	Test data can be entered	As expected	pass
ARS34	Check User Registration Password with invalid data	1. Go to site http://localh ost/airlines/empregister.php 2. Enter employee password	1.{blankspace } 2.P@ssword1 2 3	An error message should be displayed	As expected	Pass

ARS35	Check employee Registration Password with valid data	1. Go to site http://localh ost/airlines/e mpregister.p hp 2. Enter employee Confirm Password	P@ssword12	Test data can be entered	As expected	Pass
ARS36	Check employee confirmation Registration Password with invalid data	1. Go to site http://localh ost/airlines/e mpregister.p hp 2. Enter employee Confirm Password	1.{blankspace } 2.P@ssword1 2 3	An error message should be displayed	As expected	Pass

Module Name	Flight details	Test Case Description	Test the functionalities flight details section in the system
Tester Name	Kirthika	Date Tested	2/1/2025
Reviewed By	Wei Xin	Prerequisites	7. Download source code8. Run in browser
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Manual

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
ARS37	Check plane id with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enterplane id	7	Test data can be entered	As expected	pass
ARS38	Check plane id with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter plane id	{blankspace}, same ID	An error message should be displayed	As expected	pass
ARS39	Check seats with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter seats	120	Test data can be entered	As expected	pass

ARS40	Check seats with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter seats	{blankspace}	An error message should be displayed	As expected	pass
ARS41	Check plane name with valid data	1. Go to site http://localhost/airlines/e <a< td=""><td>Air Asia</td><td>Test data can be entered</td><td>As expected</td><td>pass</td></a<>	Air Asia	Test data can be entered	As expected	pass
ARS42	Check plane name with invalid data	1. Go to site http://localh.ost/airlines/e http://localh.ost/airlines/e <a airlines="" e"="" href="http://new.new.new.new.new.new.new.new.new.new.</td><td>{blankspace}</td><td>An error
message
should be
displayed</td><td>As expected</td><td>pass</td></tr><tr><td>ARS43</td><td>Check flight
details
pickup with
valid data</td><td>1. Go to site http://localhost/airlines/enter.php 2. Enter pickup</td><td>Thailand</td><td>Test data can be entered</td><td>As expected</td><td>Pass</td></tr><tr><td>ARS44</td><td>Check flight
details
pickup with
invalid data</td><td>1. Go to site http://localh_ost/airlines/e http://localh_ost/airlines/e <a airlines="" e"="" href="http://</td><td>{blankspace}</td><td>An error
message
should be
displayed</td><td>As expected</td><td>pass</td></tr><tr><td>ARS45</td><td>Check flight
details
destination
with valid
data</td><td>1. Go to site http://localh_ost/airlines/e http://localh_ost/airlines/e				

ARS46	Check flight details destination with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter destination	{blankspace}	An error message should be displayed	As expected	pass
ARS47	Check flight details class with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter class	Economy	Test data can be entered	As expected	pass
ARS48	Check flight details class with invalid data	1. Go to site http://localh ost/airlines/e nter.php 2. Enter class	{blankspace}	An error message should be displayed	As expected	pass
ARS49	Check flight details fare with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter fare	4900	Test data can be entered	As expected	pass
ARS50	Check flight details fare with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter fare	1.{blankspace} 2.ABC, @123,	An error message should be displayed	1.As expected 2.Error message did not displayed	1.pass 2.Fail

Module Name	Filter Search	Test Case Description	Test the functionalities of filter search section in the system
Tester Name	Kirthika	Date Tested	2/1/2025
Reviewed By	Nilam	Prerequisites	9. Download source code10. Run in browser
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Manual

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
ARS51	Check 'From' with valid data	1. Go to site http://localh.ost/airlines/filter.php 2. Enter From to search	delhi	Test data can be entered	As expected	pass
ARS52	Check 'From' with invalid data	1. Go to site http://localh ost/airlines/filter.php 2. Enter From to search	{blankspace}	An error message should be displayed	Error message did not displayed	Fail
ARS53	Check 'To' with valid data	1. Go to site http://localhost/airlines/filter.php 2. Enter To to search	chennai	Test data can be entered	As expected	pass

ARS54	Check 'To' with invalid data	1. Go to site http://localhost/airlines/filter.php 2. Enter To to search	{blankspace}	An error message should be displayed	Error message did not displayed	Fail
ARS55	Check 'Date After' with valid data	1. Go to site http://localhost/airlines/filter.php 2. Enter date to search	02/01/2025	Test data an be entered	As expected	Pass
ARS56	Check 'Date After' with invalid data	1. Go to site http://localhost/airlines/filter.php 2. Enter date to search	{blankspace}	An error message should be displayed	Error message did not displayed	Fail

4.2 Automated Testing by using Selenium IDE

<u>Automated Testing Module Employee Register</u>

Module Name	Employee Register	Test Case Description	Test the functionalities employee register section in the system
Tester Name	Nilam	Date Tested	03/01/2025
Reviewed By	Kirthika C.Krishnan, Wei Xin	Prerequisites	 Accessed to Mozilla Firefox Download Selenium
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
TU01	Check employee Registration id with valid data	1. Go to site http://localhost/airlines/empregister.php 2. Enter employee id	3	Test data can be entered	As expected	pass
TU01	Check employee Registration id with invalid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee id	{blankspace }, abc, 123@, \$123, 125%, >12, same ID	An error message should be displayed	Error message did not displayed	Fail
TU02	Check employee	1. Go to site http://localhos	Nilam	Test data can be	As expected	pass

	Registration name with valid data	t/airlines/emp register.php 2. Enter employee name		entered		
TU02	Check employee Registration name with invalid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee name	{blankspace }	An error message should be displayed	As expected	Pass
TU03	Check employee Registration position with valid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee position	Manager	Test data can be entered	As expected	Pass
TU03	Check employee Registration position with invalid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee position	{blankspace }	An error message should be displayed	As expected	pass
TU04	Check User Registration Password with valid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee password	P@ssword1 23	Test data can be entered	As expected	pass
TU04	Check User Registration Password with invalid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee password	1.{blankspa ce} 2.P@ssword 12 3	An error message should be displayed	As expected	Pass

TU05	Check employee Registration Password with valid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee Confirm Password	P@ssword1 23	Test data can be entered	As expected	Pass
TU05	Check employee confirmation Registration Password with invalid data	1. Go to site http://localhos t/airlines/emp register.php 2. Enter employee Confirm Password	1.{blankspa ce} 2.P@ssword 12 3	An error message should be displayed	As expected	Pass

Below are the results after performing the automated testing:

Running 'module_employee_register'	18:50:08
open on /airlines/empregister.php OK	18:50:09
2. setWindowSize on 551x755 OK	18:50:09
3. click on name=empid OK	18:50:09
4. type on name=empid OK	18:50:09
5. click on name=emp OK	18:50:09
6. type on name=emp with value Nilam OK	18:50:09
7. click on name=position OK	18:50:10
8. type on name=position with value Manager OK	18:50:10
9. click on name=emppass OK	18:50:10
10. type on name=emppass with value P@ssword123 OK	18:50:10

type on name=empid with value 3 OK	18:50:33
5. click on name=emp OK	18:50:33
6. type on name=emp OK	18:50:33
7. click on name=position OK	18:50:34
8. type on name=position with value Manager OK	18:50:34
9. click on name=emppass OK	18:50:34
10. type on name=emppass with value P@ssword123 OK	18:50:34
11. click on name=empconf OK	18:50:34
12. type on name=empconf with value P@ssword123 OK	18:50:34
13. click on name=submit OK	18:50:35
'module_employee_register' completed successfully	18:50:35
4. type on name=empid with value 3 OK	18:51:00
5. click on name=emp OK	18:51:00
6. type on name=emp with value Nilam OK	18:51:01
7. click on name=position OK	18:51:01
8. type on name=position OK	18:51:01
9. click on name=emppass OK	18:51:01
10. type on name=emppass with value P@ssword123 OK	18:51:01
11. click on name=empconf OK	18:51:01
12. type on name=empconf with value P@ssword123 OK	18:51:02
13. click on name=submit OK	18:51:02
'module_employee_register' completed successfully	18:51:02
<u> </u>	
4. type on name=empid with value 3 OK	18:51:21
5. click on name=emp OK	18:51:21
type on name=emp with value Nilam OK	18:51:22
7. click on name=position OK	18:51:22
8. type on name=position with value Manager OK	18:51:22
9. click on name=emppass OK	18:51:22
10. type on name=emppass OK	18:51:22
11. click on name=empconf OK	18:51:22
1	

12. type on name=empconf with value P@ssword123 OK

'module_employee_register' completed successfully

13. click on name=submit OK

18:51:23

18:51:23

18:51:23

4. type on name=empid with value 3 OK	18:51:43
5. click on name=emp OK	18:51:43
6. type on name=emp with value Nilam OK	18:51:43
7. click on name=position OK	18:51:43
8. type on name=position with value Manager OK	18:51:43
9. click on name=emppass OK	18:51:44
10. type on name=emppass with value P@ssword123 OK	18:51:44
11. click on name=empconf OK	18:51:44
12. type on name=empconf OK	18:51:44
13. click on name=submit OK	18:51:44
'module employee register' completed successfully	18:51:44
4. type on name=empid with value 3 OK	18:51:57
5. click on name=emp OK	18:51:57
6. type on name=emp with value Nilam OK	18:51:57
7. click on name=position OK	18:51:57
8. type on name=position with value Manager OK	18:51:57
9. click on name=emppass OK	18:51:58
10. type on name=emppass with value P@ssword123 OK	18:51:58
11. click on name=empconf OK	18:51:58
12. type on name=empconf with value P@ssword12 3 OK	18:51:58
13. click on name=submit OK	18:51:58

<u>Automated Testing Module User Register</u>

Module Name	User Registration	Test Case Description	Test the functionalities of the user section in the system
Tester Name	Egil	Date Tested	4/1/2025
Reviewed By	Kirthika C.Krishnan, Wei Xin	Prerequisites	 Accessed to Mozilla Firefox Download Selenium
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
TU06	Check User Registratio n Username with valid data	1. Go to site https://localhost/airline/userregister.php 2. Enter Username	User123!@#	Test data can be entered	As expected	Pass
TU06	Check User Registratio n Username with invalid data	1. Go to site https://localho st/airline/userr egister.php 2. Enter Username	{blankspace}	An error message should be displayed	As expected	Pass
TU07	Check User Registratio n Email with valid data	1. Go to site https://localhost/airline/userregister.php 2. Enter Email	user@gmail.co m	Test data can be entered	As expected	Pass

TU07	Check User Registratio n Email with invalid data	1. Go to site https://localhost/airline/userregister.php 2. Enter Email	1.usergmail.co m 2.usergmail 3.user.@gmail.com 4.{blankspace} 5.user@gmail.com 6.123456@gmail.com 7.!@#\$%@gmail.com	An error message should be displayed	Error messages did not display	Fail
TU08	Check User Registratio n Password with valid data	1. Go to site https://localho st/airline/userr egister.php 2. Enter Password	pw123!@#	Test data can be entered	As expected	Pass
TU08	Check User Registratio n Password with invalid data	1. Go to site https://localho st/airline/userr egister.php 2. Enter Password	{blankspace}	An error message should be displayed	As expected	Pass
TU09	Check User Registratio n Confirm Password with valid data	1. Go to site https://localho st/airline/userr egister.php 2. Enter Password	pw123!@#	Test data can be entered	As expected	Pass
TU09	Check User Registratio n Confirm Password with invalid data	1. Go to site https://localho st/airline/userr egister.php 2. Enter Password	1.{blankspace} 2.wp123!@#	An error message should be displayed	As expected	Pass

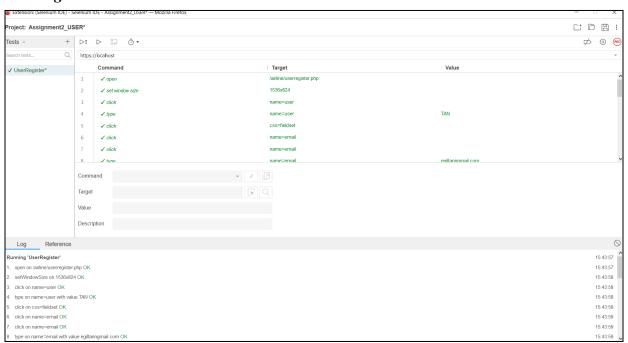
TU10	Check User Login Username with valid data	1. Go to site https://localhost/airline/userlogin.php 2. Enter Username	User123!@#	Test data can be entered	As expected	Pass
TU10	Check User Login Username with invalid data	1. Go to site https://localho st/airline/userl ogin.php 2. Enter Username	{blankspace}	An error message should be displayed	As expected	Pass
TU11	Check User Login Password with valid data	1. Go to site https://localho st/airline/userl ogin.php 2. Enter Password	pw123!@#	Test data can be entered	As expected	Pass
TU11	Check User Login Password with invalid data	1. Go to site https://localho st/airline/userl ogin.php 2. Enter Password	1.{blankspace} 2.wp123!@#	An error message should be displayed	As expected	Pass
TU12	Check Update Password Current Password with valid data	1. Go to site https://localho st/airline/updat e_password.ph p 2. Enter Current Password	pw123!@#	Test data can be entered	As expected	Pass
TU12	Check Update Password Current Password with invalid data	1. Go to site https://localho st/airline/updat e_password.ph p 2. Enter Current Password	1.{blankspace} 2.wp123!@#	An error message should be displayed	As expected	Pass

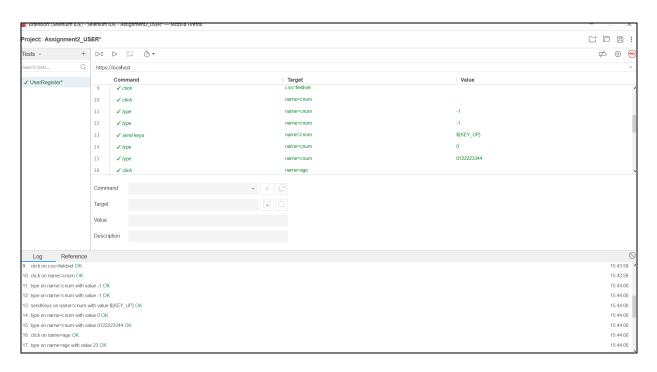
TU13	Check Update Password New Password with valid data	1. Go to site https://localho st/airline/updat e_password.ph p 2. Enter New Password	userpw123!@#	Test data can be entered	As expected	Pass
TU13	Check Update Password New Password with invalid data	1. Go to site https://localho st/airline/updat e_password.ph p 2. Enter New Password	1.{blankspace} 2.wronguser12 3!@#	An error message should be displayed	Error messages did not display	Fail
TU14	Check Update Password Confirm Password with valid data	1. Go to site https://localho st/airline/updat e_password.ph p 2. Enter New Password	userpw123!@#	Test data can be entered	As expected	Pass
TU14	Check Update Password Confirm Password with invalid data	1. Go to site https://localho st/airline/updat e_password.ph p 2. Enter New Password	1.{blankspace} 2.wronguser12 3!@#	An error message should be displayed	Error messages did not display	Fail
TU15	Check Flight Search Departure with valid data	1. Go to site https://localho st/airline/page 1.php 2. Enter Departure Place	Kolkata	Test data can be entered	As expected	Pass
TU15	Check Flight Search Departure with invalid	1. Go to site http://localhost /Airline-Reser vation-System /page1.php	{blankspace}	An error message should be displayed	As expected	Pass

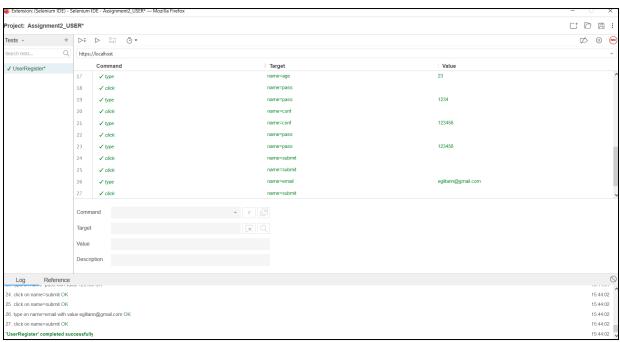
	data	2. Enter Departure Place				
TU16	Check Flight Search Destination with Valid data	1. Go to site https://localho st/airline/page 1.php 2. Enter Destination Place	Chennai	Test data can be entered	As expected	Pass
TU16	Check Flight Search Destination with invalid data	1. Go to site https://localho st/airline/page 1.php 2. Enter Destinati	{blankspace}	An error message should be displayed	As expected	Pass

Below are the results after performing the automated testing:

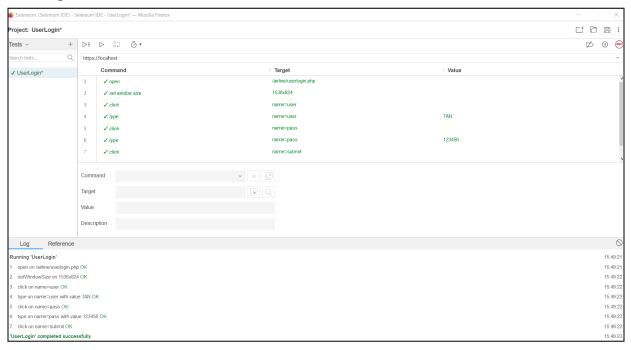
User Registration



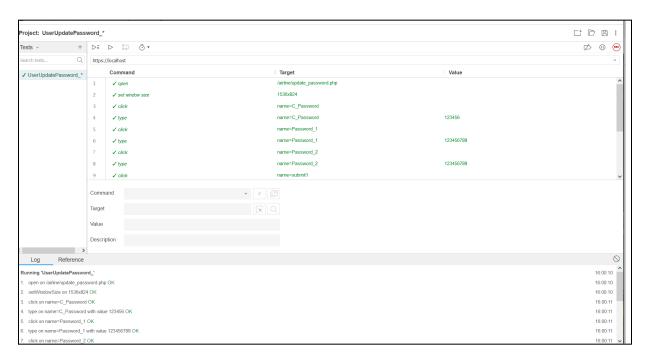


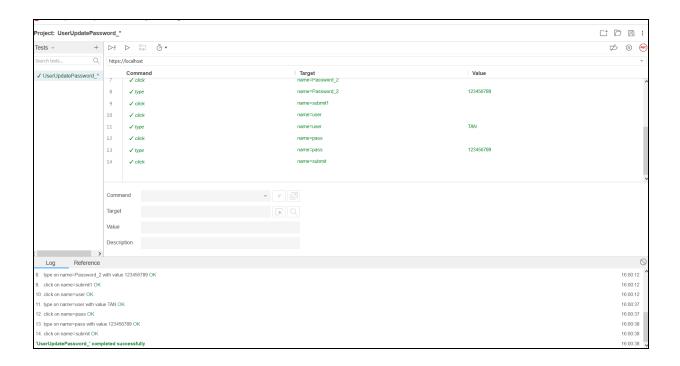


User Login

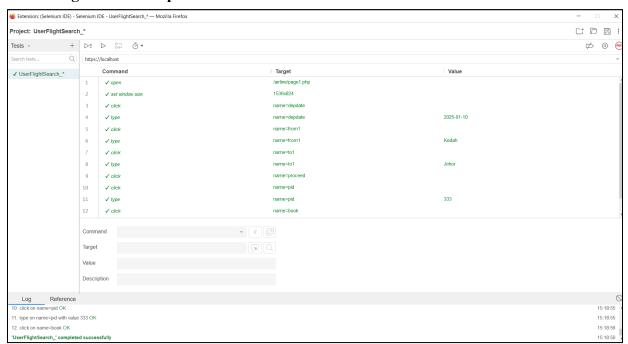


User Update Password





Check Flight Search Departure and Destination



<u>Automated Testing Module User Register</u>

Module Name	Employee Login	Test Case Description	Test the functionalities employee register section in the system
Tester Name	Nilam	Date Tested	2/1/2025
Reviewed By	Egil	Prerequisites	 Download source code Run in browser
Test Priority	Medium	Post Requisites	N/A
Version	1.0	Test Type	Automated

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
ARS23	Check username	1. Go to site http://loca lhost/airli nes/emplo gin.php 2. Enter Username	admin	Test data can be entered	As expected	Pass
ARS24	Check Username with invalid data	1. Go to site http://loca lhost/airli nes/emplo gin.php 2. Enter Username	1. blank 2.incorrect username	An error message should be displayed	As expected	Pass
ARS25	Check User password with valid	1. Go to site http://loca	admin	Test data can be entered	As expected	Pass

	data	lhost/airli nes/emplo gin.php 2. Enter password				
ARS26	Check User password with invalid data	1. Go to site http://loca lhost/airli nes/emplo gin.php 2. Enter password	1. Blank, 2. incorrect password	An error message should be displayed	As expected	Pass

Running 'adminlogin'	15:47:16
1. open on /airline/emplogin.php OK	15:47:17
2. setWindowSize on 668x809 OK	15:47:17
3. click on name=empname OK	15:47:17
4. type on name=empname OK	15:47:17
5. click on name=emppass OK	15:47:17
6. type on name=emppass with value admin OK	15:47:17
7. click on name=submit OK	15:47:18
'adminlogin' completed successfully	15:47:18
Running 'adminlogin'	15:47:36
Running 'adminlogin' 1. open on /airline/emplogin.php OK	15:47:36 15:47:37
open on /airline/emplogin.php OK	15:47:37
 open on /airline/emplogin.php OK setWindowSize on 668x809 OK 	15:47:37 15:47:37
 open on /airline/emplogin.php OK setWindowSize on 668x809 OK click on name=empname OK 	15:47:37 15:47:37 15:47:37
 open on /airline/emplogin.php OK setWindowSize on 668x809 OK click on name=empname OK type on name=empname with value admin1 OK 	15:47:37 15:47:37 15:47:37 15:47:37
 open on /airline/emplogin.php OK setWindowSize on 668x809 OK click on name=empname OK type on name=empname with value admin1 OK click on name=emppass OK 	15:47:37 15:47:37 15:47:37 15:47:37 15:47:37

Rı	unning 'adminlogin'	15:47:58		
1.	open on /airline/emplogin.php OK	15:47:58		
2.	setWindowSize on 668x809 OK	15:47:58		
3.	click on name=empname OK	15:47:58		
4.	type on name=empname with value admin OK	15:47:59		
5.	click on name=emppass OK	15:47:59		
6.	type on name=emppass OK	15:47:59		
7.	click on name=submit OK	15:47:59		
Rι	ınning 'adminlogin'	15:48:12		
1.	open on /airline/emplogin.php OK	15:48:12		
2.	setWindowSize on 668x809 OK	15:48:12		
3.	click on name=empname OK	15:48:13		
4.	type on name=empname with value admin OK	15:48:13		
5.	click on name=emppass OK	15:48:13		
6.	type on name=emppass with value admin12 OK	15:48:13		
7.	click on name=submit OK	15:48:13		
'ac	'adminlogin' completed successfully 15			

Module Name	Flight details	Test Case Description	Test the functionalities flight details section in the system	
Tester Name	Kirthika	Date Tested	2/1/2025	
Reviewed By	Nilam	Prerequisites	 Download source code Run in browser 	
Test Priority	Medium	Post Requisites	N/A	
Version	1.0	Test Type	Automated	

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
ARS37	Check plane id with valid data	1. Go to site http://localh ost/airlines/enter.php 2. Enter plane id	7	Test data can be entered	As expected	pass
ARS38	Check plane id with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter plane id	{blankspace}, same ID	An error message should be displayed	As expected	pass
ARS39	Check seats with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter seats	120	Test data can be entered	As expected	pass

ARS40	Check seats with invalid data	1. Go to site http://localh_ost/airlines/e http://localh_ost/airlines/e <a airlines="" e"="" href="http://new.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm</th><th>{blankspace}</th><th>An error
message
should be
displayed</th><th>As expected</th><th>pass</th></tr><tr><td>ARS41</td><td>Check plane
name with
valid data</td><td>1. Go to site http://localhost/airlines/e http://localhost/airlines/e <a< td=""><td>Air Asia</td><td>Test data can be entered</td><td>As expected</td><td>pass</td></a<>	Air Asia	Test data can be entered	As expected	pass
ARS42	Check plane name with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enterplane name	{blankspace}	An error message should be displayed	As expected	pass
ARS43	Check flight details pickup with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter pickup	Thailand	Test data can be entered	As expected	Pass
ARS44	Check flight details pickup with invalid data	1. Go to site http://localh.ost/airlines/e http://localh.ost/airlines/e <a airlines="" e_nter.php"="" href="http://new.new.new.new.new.new.new.new.new.new.</td><td>{blankspace}</td><td>An error
message
should be
displayed</td><td>As expected</td><td>pass</td></tr><tr><td>ARS45</td><td>Check flight
details
destination
with valid
data</td><td>1. Go to site http://localh_ost/airlines/e_nter.php 2. Enter destination	Newyork	Test data can be entered	As expected	Pass

ARS46	Check flight details destination with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter destination	{blankspace}	An error message should be displayed	As expected	pass
ARS47	Check flight details class with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter class	Economy	Test data can be entered	As expected	pass
ARS48	Check flight details class with invalid data	1. Go to site http://localh ost/airlines/enter.php 2. Enter class	{blankspace}	An error message should be displayed	As expected	pass
ARS49	Check flight details fare with valid data	1. Go to site http://localhost/airlines/enter.php 2. Enter fare	4900	Test data can be entered	As expected	pass
ARS50	Check flight details fare with invalid data	1. Go to site http://localhost/airlines/enter.php 2. Enter fare	1.{blankspace} 2.ABC, @123,	An error message should be displayed	1.As expected 2.Error message did not displayed	1.pass 2.Fail

4.	type on name=pid with value 7 OK	16:42:58
5.	click on name=seats OK	16:42:58
6.	type on name=seats with value 120 OK	16:42:58
7.	click on name=planename OK	16:42:58
8.	type on name=planename with value Air Asia OK	16:42:59
9.	click on name=from OK	16:42:59
10.	type on name=from with value Thailand OK	16:42:59
11.	click on name=to OK	16:42:59
12	type on name=to with value Newyork OK	16:42:59
13	click on name=class OK	16:42:59
14	type on name=class with value Economy OK	16:43:00
15	click on name=fare OK	16:43:00
16	type on name=fare with value 4900 OK	16:43:00
17	. click on name=insert OK	16:43:00
18	click on css=html OK	16:43:00
'fl	ight detail' completed successfully	16:43:00
Rı	unning 'flight detail'	16:43:23
3.	click on name=pid OK	16:43:24
4.	type on name=pid OK	16:43:24
5.	click on name=seats OK	16:43:24
6.	type on name=seats with value 120 OK	16:43:24
7.	click on name=planename OK	16:43:24
8.	type on name=planename with value Air Asia OK	16:43:25
9.	click on name=from OK	16:43:25
10	type on name=from with value Thailand OK	16:43:25
11	. click on name=to OK	16:43:25

13. click on name=class OK 16:43:25 14. type on name=class with value Economy OK 16:43:26 15. click on name=fare With value 4900 OK 16:43:26 16. type on name=fare with value 4900 OK 16:43:26 17. click on css=html OK 16:43:26 18. click on css=html OK 16:43:26 'flight detail' completed successfully 16:43:43 4. type on name=pid OK 16:43:44 5. click on name=pid with value 7 OK 16:43:44 6. type on name=seats OK 16:43:44 7. click on name=planename OK 16:43:44 8. type on name=planename with value Air Asia OK 16:43:44 9. click on name=from OK 16:43:45 10. type on name=from with value Thailand OK 16:43:45 11. click on name=to OK 16:43:45 12. type on name=class OK 16:43:45 14. type on name=class with value Economy OK 16:43:45 15. click on name=fare OK 16:43:45 16. type on name=fare with value 4900 OK 16:43:46 16. type on name=fare with value 4900 OK 16:43:46 17. click on name=insert OK 16:43:46 18. click on css=html OK 16:43:46	Log Reference	10:42:25
14. type on name=class with value Economy OK 16.43.26 15. click on name=fare OK 16.43.26 16. type on name=insert OK 16.43.26 17. click on name=insert OK 16.43.26 18. click on css=html OK 16.43.26 'flight detail' completed successfully 16.43.27 3. click on name=pid OK 16.43.43 4. type on name=pid with value 7 OK 16.43.44 5. click on name=seats OK 16.43.44 6. type on name=seats OK 16.43.44 7. click on name=planename OK 16.43.44 8. type on name=planename with value Air Asia OK 16.43.44 9. click on name=from OK 16.43.45 10. type on name=from with value Thailand OK 16.43.45 11. click on name=to OK 16.43.45 12. type on name=to with value Newyork OK 16.43.45 13. click on name=class with value Economy OK 16.43.45 14. type on name=fare OK 16.43.45 15. click on name=are with value 4900 OK 16.43.46 16. type on name=insert OK 16.43.46 16. type on name=insert OK 16.43.46 18. click on css=html OK 16.43.46	12. type on name=to with value Newyork OK	16:43:25
15. click on name=fare OK 16.43.26 16. type on name=fare with value 4900 OK 16.43.26 17. click on name=insert OK 16.43.26 18. click on css=html OK 16.43.26 'flight detail' completed successfully 16.43.27 3. click on name=pid OK 16.43.43 4. type on name=pid with value 7 OK 16.43.44 5. click on name=seats OK 16.43.44 6. type on name=seats OK 16.43.44 7. click on name=planename OK 16.43.44 8. type on name=planename with value Air Asia OK 16.43.44 9. click on name=from OK 16.43.45 10. type on name=from with value Thailand OK 16.43.45 11. click on name=to OK 16.43.45 12. type on name=to With value Newyork OK 16.43.45 13. click on name=class with value Economy OK 16.43.45 15. click on name=fare OK 16.43.45 16. type on name=fare With value 4900 OK 16.43.46 17. click on name=insert OK 16.43.46 18. click on css=html OK 16.43.46 18. click on css=html OK 16.43.46		
16. type on name=fare with value 4900 OK 16:43:26 17. click on name=insert OK 16:43:26 18. click on css=html OK 16:43:26 **Ilight detail' completed successfully 16:43:43 3. click on name=pid OK 16:43:43 4. type on name=pid with value 7 OK 16:43:44 5. click on name=seats OK 16:43:44 6. type on name=seats OK 16:43:44 7. click on name=planename OK 16:43:44 8. type on name=planename with value Air Asia OK 16:43:45 9. click on name=from OK 16:43:45 10. type on name=from with value Thailand OK 16:43:45 11. click on name=to OK 16:43:45 12. type on name=to With value Newyork OK 16:43:45 13. click on name=class of W 16:43:45 14. type on name=class with value Economy OK 16:43:45 15. click on name=fare OK 16:43:46 16. type on name=fare with value 4900 OK 16:43:46 17. click on name=insert OK 16:43:46 18. click on css=html OK 16:43:46		
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3.	click on name=pid OK	16:44:10
4.	type on name=pid with value 7 OK	16:44:10
5.	click on name=seats OK	16:44:11
6.	type on name=seats with value 120 OK	16:44:11
7.	click on name=planename OK	16:44:11
8.	type on name=planename OK	16:44:11
9.	click on name=from OK	16:44:11
10	type on name=from with value Thailand OK	16:44:11
11.	click on name=to OK	16:44:12
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	type on name=to with value Newyork OK	16:44:12
	click on name=class OK	16:44:12
	type on name=class with value Economy OK	16:44:12
	click on name=fare OK	16:44:12
16.	type on name=fare with value 4900 OK	16:44:12
17.	click on name=insert OK	16:44:13
18.	click on css=html OK	16:44:13
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3.	click on name=pid OK	16:44:35
4.	type on name=pid with value 7 OK	16:44:36
5.	click on name=seats OK	16:44:36
6.	type on name=seats with value 120 OK	16:44:36
7.	click on name=planename OK	16:44:36
8.	type on name=planename with value Air Asia OK	16:44:36
9.	click on name=from OK	16:44:37
10.	type on name=from OK	16:44:37
11.	click on name=to OK	16:44:37

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13. click on name=class OK 16:44:57 14. type on name=class with value Economy OK 16:44:57 15. click on name=fare OK 16:44:58 16. type on name=fare with value 4900 OK 16:44:58 17. click on name=insert OK 16:44:58 18. click on css=html OK 16:44:58	11 click on name=to OK	16:44:57
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17. click on name=insert OK 16:44:58 18. click on css=html OK 16:44:58	15. click on name=fare OK	16:44:58
18. click on css=html OK 16:44:58	16. type on name=fare with value 4900 OK	16:44:58
	17. click on name=insert OK	16:44:58
**************************************	18. click on css=html OK	16:44:58
'flight detail' completed successfully 16:44:58	'flight detail' completed successfully	16:44:58

3. click on name=pid OK	16:45:11
type on name=pid with value 7 OK	16:45:12
5. click on name=seats OK	16:45:12
6. type on name=seats with value 120 OK	16:45:12
7. click on name=planename OK	16:45:12
8. type on name=planename with value Air Asia OK	16:45:12
9. click on name=from OK	16:45:13
10. type on name=from with value Thailand OK	16:45:13
11. click on name=to OK	16:45:13
12. type on name=to with value Newyork OK	16:45:13
13. click on name=class OK	16:45:13
14. type on name=class OK	16:45:13
15. click on name=fare OK	16:45:14
16. type on name=fare with value 4900 OK	16:45:14
17. click on name=insert OK	16:45:14
18. click on css=html OK	16:45:14
'flight detail' completed successfully	16:45:14

3.	click on name=pid OK	16:45:33
4.	type on name=pid with value 7 OK	16:45:34
5.	click on name=seats OK	16:45:34
6.	type on name=seats with value 120 OK	16:45:34
7.	click on name=planename OK	16:45:34
8.	type on name=planename with value Air Asia OK	16:45:35
9.	click on name=from OK	16:45:35
10.	type on name=from with value Thailand OK	16:45:35
11.	click on name=to OK	16:45:35

3. click	on name=pid OK	16:45:48
4. type	on name=pid with value 7 OK	16:45:48
5. click	on name=seats OK	16:45:48
6. type	on name=seats with value 120 OK	16:45:49
7. click	on name=planename OK	16:45:49
8. type	on name=planename with value Air Asia OK	16:45:49
9. click	on name=from OK	16:45:49
10. type	on name=from with value Thailand OK	16:45:49
_ 11. click	on name=to OK	16:45:50 _
12. type	on name=to with value Newyork OK	16:45:35
13. click	on name=class OK	16:45:35
14. type	on name=class with value Economy OK	16:45:36
15. click	on name=fare OK	16:45:36
16. type	on name=fare OK	16:45:36
17. click	on name=insert OK	16:45:36
18. click	on css=html OK	16:45:36
'flight d	etail' completed successfully	16:45:37
12. type	e on name=to with value Newyork OK	16:45:50
13. clic	k on name=class OK	16:45:50
14. type	e on name=class with value Economy OK	16:45:50
15. clic	k on name=fare OK	16:45:50
16. type	e on name=fare with value ABC OK	16:45:50
17. clic	k on name=insert OK	16:45:51
18. clic	k on css=html OK	16:45:51
'flight	detail' completed successfully	16:45:51

Module Name	Filter Search	Test Case Description	Test the functionalities of filter search section in the system	
Tester Name	Kirthika	Date Tested	2/1/2025	
Reviewed By	Nilam	Prerequisites	 Download source code Run in browser 	
Test Priority	Medium	Post Requisites	N/A	
Version	1.0	Test Type	Manual	

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Results	Actual Results	Pass/ Fail
ARS51	Check 'From' with valid data	1. Go to site http://localh ost/airlines/filter.php 2. Enter From to search	delhi	Test data can be entered	As expected	pass
ARS52	Check 'From' with invalid data	1. Go to site http://localhost/airlines/filter.php 2. Enter From to search	{blankspace}	An error message should be displayed	Error message did not displayed	Fail
ARS53	Check 'To' with valid data	1. Go to site http://localhost/airlines/filter.php 2. Enter To to search	chennai	Test data can be entered	As expected	pass

ARS54	Check 'To' with invalid data	1. Go to site http://localhost/airlines/filter.php 2. Enter To to search	{blankspace}	An error message should be displayed	Error message did not displayed	Fail
ARS55	Check 'Date After' with valid data	1. Go to site http://localhost/airlines/filter.php 2. Enter date to search	02/01/2025	Test data an be entered	As expected	Pass
ARS56	Check 'Date After' with invalid data	1. Go to site http://localhost/airlines/filter.php 2. Enter date to search	{blankspace}	An error message should be displayed	Error message did not displayed	Fail

2.	setWindowSize on 778x869 OK	16:32:34
3.	click on name=from OK	16:32:34
4.	type on name=from with value delhi OK	16:32:35
5.	click on name=to OK	16:32:35
6.	type on name=to with value chennai OK	16:32:35
7.	click on name=date OK	16:32:35
8.	type on name=date with value 2025-01-02 OK	16:32:35
9.	click on name=filterdate OK	16:32:36
10	. click on name=from OK	16:32:36

2.	setWindowSize on 778x869 OK	16:32:46
3.	click on name=from OK	16:32:46
4.	type on name=from OK	16:32:47
5.	click on name=to OK	16:32:47
6.	type on name=to with value chennai OK	16:32:47
7.	click on name=date OK	16:32:47
8.	type on name=date with value 2025-01-02 OK	16:32:47
9.	click on name=filterdate OK	16:32:47
10	. click on name=from OK	16:32:47
1	open on /airline/filter.php OK	16:33:13
	setWindowSize on 778x869 OK	16:33:13
	click on name=from OK	16:33:13
	type on name=from with value delhi OK	16:33:13
5.	click on name=to OK	16:33:13
6.	type on name=to OK	16:33:13 16:33:14
_	click on name=date OK	
8.	type on name=date with value 2025-01-02 OK	16:33:14
9.	click on name=filterdate OK	16:33:14
3.	click on name=from OK	16:33:44
4.	type on name=from with value delhi OK	16:33:44
5.	click on name=to OK	16:33:45
6.	type on name=to with value chennai OK	16:33:45
7.	click on name=date OK	16:33:45
8.	type on name=date OK	16:33:45
9.	click on name=filterdate OK	16:33:45
10	. click on name=from OK	16:33:45
'fli	ght filter' completed successfully	16:33:45

Suggestion for Improvement

In this automated testing evaluation using Selenium IDE, three key functionalities were tested: user registration, admin registration, and the flight search feature. The results highlighted three failed test cases that need attention.

On the admin registration page, when testing the employee registration ID field with invalid data, such as letters and spaces, the expected error message did not appear, leading to a test failure due to insufficient validation feedback. Similarly, two issues were identified on the user password update page. The "New Password" and "Confirm Password" fields failed to display error messages when only blank spaces were entered, indicating a lack of proper input validation for these fields. Additionally, the lack of immediate feedback or visually distinct error notifications could lead to user frustration and reduce the system's usability.

It is recommended to adopt a more prominent error notification approach to enhance the system's usability and improve feedback. Instead of displaying error messages below the input fields—where users may overlook them—a pop-up alert or a more visually distinct message would make error notifications clearer and more noticeable. For example, using bold text with contrasting colors, such as red, or adding an error icon can draw user attention effectively. Furthermore, input validation should be enhanced to provide real-time feedback for incorrect entries. Employing both client-side and server-side validation will ensure comprehensive error checking, reducing the risk of submitting invalid data.

Implementing these changes would provide immediate and actionable feedback, improve user experience, and ensure alignment with usability best practices. Post-implementation, regression testing and user feedback sessions should be conducted to verify the effectiveness of these improvements and ensure that no new issues are introduced.

Conclusion

By completing this test plan report, we aim to determine whether the Airline Reservation System meets the exit criteria by satisfying all specified requirements. This proposal includes key components such as test plan identification, testing approaches, pass/fail and suspension criteria, test items and deliverables, and responsibilities. Through testing processes, we aim to identify any unresolved defects and assess the system's readiness for deployment. The insights gained will guide our decision on whether the Airline Reservation System meets quality and functionality standards for a smooth and reliable user experience.

We will assess whether the system is ready for deployment after executing all planned test cases. However, despite the comprehensive testing effort, some defects and issues of varying severity may remain unresolved. This report will provide insights into the system's functionality, reliability, and readiness, allowing us to decide whether the system meets the required standards for successful implementation.

This Selenium IDE-based automated testing project successfully demonstrated the value of automation in verifying the key functionalities of an online airline reservation system. By focusing on critical features such as flight search, employee registration, and user registration, the tests evaluated the system's capacity to handle both valid and invalid inputs. The results revealed a mix of successful and unsuccessful test cases. Successful tests confirmed that valid data was processed as expected, thereby improving the system's reliability and dependability.

However, some unsuccessful test cases highlighted areas for improvement, particularly in managing invalid inputs. The lack of error messages for the employee registration ID, password update, and confirm password fields underscored the need for enhanced validation procedures and more user-friendly error alerts. Addressing these gaps is essential to ensure robust system performance, comprehensive input validation, and effective error feedback mechanisms.

Overall, this project underscored the critical role of automated testing in identifying defects early in the development cycle, reducing reliance on manual testing, and enhancing software quality. By implementing the proposed improvements, the system can adhere to

standard input validation practices while offering a better user experience. Future testing should expand to include additional features and scenarios, further strengthening the system's reliability, usability, and maintainability.