TEST PLAN

Project Name: PHPTravels Web Application – end to end manual testing

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1. Overview

PHPTravels is a web-based travel booking application that provides users the ability to search and book flights and manage their bookings through a user account. The objective of this test plan is to define the approach and scope of manual functional testing to be performed on the flight booking module and related user-facing functionalities. The goal of testing is to validate core workflows, identify functional and usability issues, and assess the overall stability of the application from an end-user perspective.

2. Scope

The scope of testing includes manual functional validation of major user-facing features related to flight booking and user account management. Testing focuses on end-to-end user workflows, navigation, validations, and data consistency across supported frontend modules.

3. Inclusions

The following functionalities are included in the scope of testing:

- User Sign Up
- User Login
- Forgot Password
- User Logout
- Flight Search
- Flight Search Results
- Filters and Modify Search functionality
- Flight Booking Flow (Guest and Logged-in User)
- Payment Gateway Redirection
- Booking Confirmation and Invoice
- Booking Cancellation Request
- Dashboard
- My Bookings
- User Profile Management
- Header Navigation
- Footer Navigation

4. Test Environments

- **Primary Browser Tested:** Google Chrome (latest version)
- **Cross-Browser Coverage:** Test cases designed for Chrome, Firefox, and Edge
- **Operating System:** Windows
- **Test Environment:** Staging / Demo environment

(Cross-browser execution was limited; coverage was planned through test case design)

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5. Exclusions

The following functionalities are excluded from testing:

- Hotel booking module
- Tours booking module
- Cars booking module
- Visa module
- Agent login and agent-specific functionalities
- Supplier and vendor functionalities
- Admin panel and backend operations
- Backend logic and database validation
- Performance, load, and stress testing
- Security and penetration testing
- Payment gateway transaction processing (only redirection tested)
- Email delivery validation where environment or configuration limitations exist

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6. Test Strategy

- Manual functional testing will be carried out based on predefined test scenarios and test cases.
- Testing will cover positive, negative, and boundary scenarios wherever applicable.
- End-to-end testing will be performed for critical user flows such as flight search, booking, and booking management.
- Exploratory testing was performed on critical workflows such as booking, payment redirection, and invoice access to uncover hidden defects.
- Failed test cases will be revalidated before being considered for defect reporting to ensure accuracy.

7. Defect Reporting Procedure

- Defects will be identified during test execution based on deviations from expected behavior.
- Failed test cases will be reviewed and rechecked before logging defects.
- Defects will be documented in an Excel-based bug report.
- Each defect will include summary, steps to reproduce, expected result, actual result, severity, and priority.

8. Roles and Responsibilities

As this is a personal testing project, all activities will be handled by a single tester.

- Test planning and documentation
- Test scenario and test case creation
- Manual test execution
- Defect identification and reporting
- RTM and Test Summary preparation

9. Test Schedule

Testing activities are planned to be performed in the following sequence:

- Test scenario creation
- Test case design
- Test execution
- Review of failed test cases
- Defect documentation
- RTM preparation
- Test Summary reporting

10. Test Deliverables

The following deliverables will be produced as part of this project:

- Test Plan

- Test Scenarios
- Test Cases
- Test Execution Results (execution status will be maintained at test case level)
- Bug Report
- Requirement Traceability Matrix (RTM)
- Test Summary Report

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11. Entry and Exit Criteria

Entry Criteria

- Application is accessible in the test environment
- Test scenarios and test cases are prepared
- Test environment is stable

Exit Criteria

- All planned test cases are executed
- Major functional defects are identified and documented
- RTM confirms coverage of test scenarios
- Test Summary Report is prepared

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12. Suspension and Resumption Criteria

- Testing activities may be suspended if the application becomes unavailable or if blocking issues prevent further testing.
- Testing will resume once the application is stable and blocking issues are resolved.

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13. Tools

- Google Chrome browser
- Microsoft Excel (test cases, bug reports, RTM)
- Screenshot tool for defect evidence
- Google Docs / Microsoft Word for test documentation
- GitHub was used to maintain version control and present test artifacts as a portfolio project

14. Risks and Mitigations

Risk	Mitigation
Limited backend access	Focused testing on UI and user-level behavior
Restricted test data	Test cases designed based on available data
Environment instability	Retesting performed once the environment stabilized