**Test Execution Report for Goose Flight Website**

**Introduction**

This document summarizes the test execution results for the Goose Flight website. It provides details of the test cases executed, pass/fail rates, and a summary of Bugs found during the testing process.

**Total Test Cases Executed**

* **Total Test Cases**: 50
* **Test Cases Passed**: 50
* **Test Cases Failed**: 8
* **Test Cases Blocked**: 4
* **Test Cases Not Executed**: 8

**TC-001: Verify the Home Page Open**

* **Category: Functional Testing**
* **Test Scenario: Verify that the homepage loads correctly when the site URL is accessed.**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The home page loaded correctly without any issues.**

**TC-002: Verify the content of the navbar**

* **Category: Functional Testing**
* **Test Scenario: Verify that the navbar contains the correct items (Home, Promo, My Booking, Language, Sign In) and is functional.**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The navbar worked as expected, with all items appearing and being clickable.**

**TC-003: Verify the content of the body of the page**

* **Category: Functional Testing**
* **Test Scenario: Verify that the body of the home page contains the correct sections (Flight Options, Search Criteria, Filters, Dynamic Pricing).**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: All sections, including flight options and search filters, were present and displayed correctly.**

**TC-004: Verify flight options**

* **Category: Functional Testing**
* **Test Scenario: Verify that the flight options (one-way, round-trip, and multi-city bookings) are displayed correctly as radio buttons for single selection.**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The flight options were displayed as radio buttons and were single-select as designed.**

**TC-005: Verify one-way flight search**

* **Category: Functional Testing**
* **Test Scenario: Verify that the one-way flight search works when valid departure and destination locations are entered, along with passenger details.**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The one-way flight search functioned correctly, showing matching flights.**

**TC-006: Verify one-way flight search with error**

* **Category: Functional Testing**
* **Test Scenario: Verify that an error message appears when a one-way flight search is initiated with a missing return date.**
* **Status: Fail**
* **Bugs Found: BUG-101**
* **Comments: The error message was displayed correctly when the return date was not selected. This issue needs to be fixed in the system validation process.**

**TC-007: Verify data types of fields**

* **Category: Functional Testing**
* **Test Scenario: Verify that the data types for fields such as flight locations (string), dates (date), and passenger categories (LOV and single select) are correctly displayed.**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The data types of all fields were correctly displayed and functioned as expected.**

**TC-008: Validate flight from-to fields**

* **Category: Functional Testing**
* **Test Scenario: Verify that the "Flight from" and "Flight to" fields cannot be the same (validation).**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The validation worked correctly, and the system showed an error when the same city was entered in both fields.**

**TC-09: Validate depart-return date**

* **Category: Functional Testing**
* **Test Scenario: Verify that the system ensures the "Depart" date is earlier than the "Return" date for round-trip searches.**
* **Status: Pass**
* **Bugs Found: No**
* **Comments: The validation worked as expected, and the user was prompted by an error when selecting an invalid date range.**

**Bug Summary**

**Contain:**

1. **Bug ID**
2. **Bug Title**
3. **Steps to reproduce the Bug**
4. **Priority**
5. **Severity**
6. **Attachment (Screenshots – Screen record) depend on the Bug**
7. **Status of Bug**
8. **The environment (if web bugines the browser)  
   if mobile bugine (Android or IOS) and the name of device**

**Example:**

**BUG-101: Missing Return Date Validation**

* **Priority: High**
* **Severity: Critical**
* **Description: This bug occurs when the user selects a one-way flight and leaves the return date field blank. Despite the return date being a required field, the system fails to show an error message, allowing the user to proceed to the flight search.**
* **Steps to Reproduce:**
  1. **Navigate to the homepage of the Goose Flight website.**
  2. **Select the one-way flight option.**
  3. **Leave the return date field empty.**
  4. **Click "Search".**
* **Expected Result: The system should show an error message stating that the return date is required for round-trip flights.**
* **Actual Result: The system does not show an error message, and the user is allowed to proceed with an incomplete search.**
* **Attachment: Screenshot1.png**
* **Status: Open**
* **Environment: Web (Chrome)**

**BUG-102: Invalid City Input Not Validated**

* **Priority: Medium**
* **Severity: Major**
* **Description: This issue occurs when a user enters an invalid city (a non-existent city) in the "Flight from" or "To" field. The system does not validate the city input and allows the user to proceed with the search, even though the city is not recognized.**
* **Steps to Reproduce:**
  1. **Open the Goose Flight homepage.**
  2. **Enter a non-existent city in the "Flight from" or "To" field (e.g., "XYZ City").**
  3. **Click "Search".**
* **Expected Result: The system should show an error message indicating that the city entered is invalid or not found.**
* **Actual Result: The system allows the user to proceed with the search without showing any error.**
* **Attachment: Screenshot2.png**
* **Status: Open**
* **Environment: Web (Firefox)**

These two bugs have been identified during testing and require fixes to ensure proper validation and user experience. Additional testing will be performed after the bugs are resolved to ensure that these issues are no longer present.

**Root Cause Analysis (RCA)**

**DEF-101: Missing Return Date Validation**

* **Root Cause**: The validation logic for the return date field was missing when a one-way flight is selected. The system failed to check if the return date was required for round-trip searches.
* **Recommendation**: Implement proper validation to ensure the return date is either filled out or show an error message when it is required.

**DEF-102: Invalid City Input Not Validated**

* **Root Cause**: The system does not validate whether the city entered exists, allowing users to proceed with invalid city names.
* **Recommendation**: Add a validation check that verifies the entered city against a valid city list or an API to prevent searches with invalid cities.