**Test Plan for Booking.com**

**Project:** Booking.com Search Bar and Reservation Functionality Testing

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**1. Introduction**

**Purpose**

The purpose of this test plan is to outline the strategy, resources, and schedule for testing the search bar and reservation functionality on the Booking.com website.

**Objective**

To ensure the quality and functionality of the search bar and reservation features on the Booking.com website by performing comprehensive testing.

**1.1 Project Objective**

To test the search bar and reservation functionality on the Booking.com website to ensure they function as expected and meet business requirements.

**1.2 Functionalities in Scope**

* Search Bar Functionality
  + Entering search criteria
  + Displaying search results
  + Filtering search results
* Reservation Functionality
  + Selecting a property
  + Booking a reservation
  + Confirming reservation details
  + Cancelling a reservation

**1.3 Functionalities and Tests Out of Scope**

* Mobile application testing
* Performance testing beyond basic functionality
* Non-functional requirements like load testing, stress testing, etc.

**2. Test Process**

**2.1 Test Planning**

**2.1.2 Identify Test Cases and Scenarios:** Identify all possible test cases and scenarios for the search bar and reservation functionality.

**2.1.3 Allocate Resources for Testing Activities:** Assign team members to specific testing tasks, ensuring that each area of the application is covered.

**2.2 Test Analysis**

**2.2.1 Understanding Requirements, Features, and Potential Risks:** Analyze the requirements and understand the functionality of the search bar and reservation features, identifying potential risks such as incorrect search results or reservation failures.

**2.2.2 Decomposing User Stories into Testable Scenarios:** Break down user stories into specific, testable scenarios that cover all aspects of the functionality.

**2.3 Test Design**

**2.3.1 Creating Detailed Test Cases with Clear Steps and Expected Outcomes:** Develop detailed test cases that include steps to execute the test, expected results, and actual results.

**2.3.2 Defining Test Data Sets and Pre-Conditions:** Define the necessary data sets and pre-conditions required for executing the test cases.

**2.4 Test Implementation**

**2.4.1 Developing Test Scripts and Automation where Possible:** Develop automated test scripts where applicable to ensure efficient and repeatable testing.

**2.4.2 Setting Up the Testing Environment:** Set up the testing environment to match the production environment as closely as possible, including configurations and data.

**2.5 Test Execution**

**2.5.1 Executing Test Cases and Documenting Results:** Execute the test cases, documenting the results and any deviations from expected outcomes.

**2.5.2 Monitoring and Reporting Test Progress:** Monitor the progress of testing activities and report status regularly to stakeholders.

**2.6 Test Closure**

**2.6.1 Analyzing Test Results, Reporting Defects, and Documenting Lessons Learned:** Analyze the test results, report any defects found, and document lessons learned for future testing activities.

**2.7 Test Monitoring and Control**

Monitor and control the testing process to ensure it remains on track and any issues are addressed promptly.

**3. Test Deliverables**

**3.1 Test Plan**

Document overall testing strategy, including:

* **Project Objectives:** Ensure the search bar and reservation functionality works as intended.
* **Testing Approach:** Functional testing with a focus on user interactions and data integrity.
* **Test Schedule:** Plan for testing activities, including timelines for planning, design, implementation, execution, and closure.
* **Resources:** List of personnel, equipment, and software tools required for testing.

**3.2 Test Conditions**

Testing will be conducted under defined conditions to ensure consistent and reproducible results:

**Hardware:**

* Operating system: Windows 10
* Processor: Intel Core i5 or equivalent
* RAM: 8 GB or more
* Hard drive: SSD with at least 50 GB of free space

**Software:**

* Web browser: Chrome or Firefox
* Booking.com web app

**Network:**

* Stable network connection with minimum bandwidth requirements

**User Roles:**

* Registered user with an active account
* Guest user

**System Configurations:**

* Booking.com web app configured to handle search and reservation functionality

**3.3 Test Cases**

Comprehensive set of test cases developed to cover all aspects of the search bar and reservation functionality:

**3.3.1 Test Objective:** Ensure that users can search for properties and make reservations successfully.

**3.3.2 Pre-Conditions:** User must be logged in to an account (for registered user scenarios).

**3.3.3 Steps:**

* **Search Bar:**
  + Enter search criteria (destination, dates, number of guests)
  + Click search button
  + Verify search results are displayed
  + Apply filters and verify results update accordingly
* **Reservation:**
  + Select a property from search results
  + Enter reservation details (dates, number of guests)
  + Confirm reservation details
  + Complete booking process
  + Verify reservation confirmation
  + Cancel reservation and verify cancellation

**3.3.4 Expected Results:** Search results and reservation processes work correctly and as expected.

**3.3.5 Actual Results:** [To be filled after test execution]

**3.3.6 Priority:** High

**3.4 Daily Test Summary Reports**

Daily reports summarizing testing activities, including:

* Number of test cases executed
* Number of defects identified
* Notable issues
* Outstanding actions

**3.5 Traceability Matrix**

Create a matrix linking test cases to specific requirements or user stories to ensure full coverage.

**3.6 Test Case Results**

Detailed records of each executed test case result, documenting:

* Pass
* Fail
* Inconclusive
* Defects or issues for failed test cases

**3.7 Bugs Report**

Comprehensive reports for each identified defect, including:

* Detailed description of the defect
* Steps to reproduce
* Affected versions
* Severity level
* Ownership
* Timeline for resolution and retesting

**3.8 Test Completion Report**

Summarize overall findings of the testing phase, including:

* Number of test cases executed
* Number of defects identified
* Closure status of defects
* Overall quality and completeness of the functionality
* Recommendations for further testing or development

This plan ensures that the search bar and reservation functionality on Booking.com is thoroughly tested and meets all business requirements and user expectations.