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TestLink

Test Plan Execution Report (on specific build)

Test Project: My test project
Test Plan: Test Plan - Search Engine
Build: version 0.0.9

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Test Plan: Test Plan - Search Engine

1. Introduction

The purpose of this Test Plan is to define the strategy, scope, schedule, and responsibilities for the testing of the AirSerbia.com search engine component. The document contains key information about testing activities. It lists all software components that will be verified and the types of tests that will be performed.

2. Scope of tests

In scope:

- Unit tests
- Functional testing: verification of filters, field validation, and search results display
- Performance tests: average and peak response time validation
- Cross-browser testing (Chrome, Firefox, Opera)

Out of Scope

- Automated testing (due to time and environment constraints)
- Accessibility testing
- Security and penetration testing

3. Test items

- Search engine module on the **AirSerbia.com** homepage
- Filtering logic for flight parameters (dates, destinations, passenger count)
- Validation of mandatory fields and result set accuracy

4. Entry criteria

- Search engine implementation completed and deployed to the test environment
- Test data available and configured
- Test environment stable and accessible
- User stories and acceptance criteria approved by the Product Owner

5. Exit criteria

- All planned test cases executed
- 95% of critical and high-severity test cases passed
- No open critical or high-severity defects
- Test summary report delivered and accepted by stakeholders

6. Test approach

Functional testing:

- Based on user stories and acceptance criteria
- Manual test cases will be designed and executed in TestLink

- Each failed case will be logged as a defect in Jira with appropriate severity and priority

Performance testing:

- Conducted using **JMeter**
- KPIs: Average response time ≤ 700 ms

Retesting and regression:

- All fixed defects will be retested in the next test cycle
- Regression testing will cover core functionality and critical business flows

7. Test deliverables

- Test cases in TestLink

- Test execution results

- Defect reports in Jira

- Performance test results (JMeter reports)

- Final Test Summary Report

8. Test environment

Component	Specification
OS	Windows 11 Pro 64-bit
Browsers	Chrome (latest), Firefox (latest), Opera (latest)
Test Tools	JMeter, TestLink, Jira, BrowserStack
Test Data	Configured manually based on valid and invalid inputs

9. Test Data

- Test data sets will be created manually according to business rules

- Data examples include valid/invalid dates, city codes, and passenger combinations

- Sensitive production data will **not** be used in any test environment

10. Schedule

Activity	Responsible	Duration	Dates
Test case design	N. Policht	1 day	07.10.2025
Functional testing	N. Policht	2 days	08–09.10.2025
Performance testing	N. Policht	1 day	10.10.2025
Retesting & regression	N. Policht	1 day	11.10.2025
Reporting	N. Policht	0.5 day	12.10.2025

11. Defect Management

- All defects are logged in **Jira** with the following details:

  - Summary, environment, steps to reproduce, actual vs. expected result, severity, and priority

- Defects are triaged daily during the testing period

- Lifecycle: *Open → In Progress → Fixed → Retest → Closed / Reopened*

- Defects are linked to relevant test cases and user stories

12. Reporting

- Daily reports: Short progress update in Jira/Slack channel.

- Final Test Summary Report: Delivered after completion of all testing activities, including:

    - Execution statistics (pass/fail/blocked)

    - Defect summary by severity

    - Performance metrics

    - Release readiness assessment

13. Roles and responsibilities

Role	Name	Responsibilities
QA Engineer	**Nateła Policht**	Test design, execution, defect reporting, retesting, reporting
Developer	TBD	Fixing defects, supporting testing
Product Owner	TBD	Requirement clarification, acceptance of final results

14. Approval

Name	Role	Signature	Date
QA Engineer	N. Policht		
Product Owner	TBD		
Project Manager	TBD		

1.1.Test Suite : Search engine

Test Case Pro12-1: Validation verification [Version : 1]

Author:	natela

Preconditions:

- The tester has access to a stable internet connection
- The tester has a valid Windows 11 operating system
- The following web browsers are installed and updated to the latest version:
  - Google Chrome
  - Mozilla Firefox
  - Microsoft Edge
  - Opera
- The **airserbia.com** website is accessible and fully loaded
- Browser cache and cookies are cleared before testing
- The tester is on the **Flight Search** page (homepage or flight booking section)
- No flight search form fields are pre-filled
- The tester is not logged into any user account (unless required for the scenario)

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Visit airserbia.com website.	The search engine loads successfully.		Passed
2	The "From," "To," and "Date range" fields are not filled in, click on the "Show flights" button.	Validation messages appear next to fields that are mandatory.		Passed
3	The "From", "To" and "Date range" fields are not filled in, click on the "Show flights" button. Fill in the required fields "From", "To" and "Date range".	Validation messages should disappear after completing the required fields.		Failed
4	The "From," "To," and "Date range" fields are filled in. Click the "Find flights" button.	- A page with available search results appears. - After selecting the class and clicking on the "Select" button, the flight details page loads.		Passed
5	Click on the "Departing date" calendar.	All dates in the date picker earlier than today are blocked.		Passed
6	Click on the "Returning date" calendar.	All dates in the date picker earlier than today are blocked.		Passed
7	Click on the calendar in the "Round trip" section and select the date range.	Dates on which flights are unavailable are blocked in the date picker.		Failed

8	In the search engine component, click on the "One-way" or "Multi-city" buttons.	The "One-way" and "Multi-city" buttons are visible and clickable.		

Execution type:	Manual
Estimated exec. duration (min):	
Priority:	Medium
Requirements	None
Keywords:	None
Execution Details	
Build	version 0.0.9
Tester	natela
Execution Result:	**Failed**
Execution Mode:	**Manual**
Execution duration (min):	**30.00**

Test Case Pro12-2: Verification of search engine logic [Version : 1]

Author:	natela

Preconditions:

- The tester has access to a stable internet connection

- The tester has a valid Windows 11 operating system

- The following web browsers are installed and updated to the latest version:

    - Google Chrome

    - Mozilla Firefox

    - Microsoft Edge

    - Opera

- Browser cache and cookies are cleared before testing

- The tester has access to the **airserbia.com** website

- The tester is not logged into any user account (unless specified otherwise in the test steps)

#:	Step actions:	Expected Results:	Execution notes:	Execution Status:
1	Visits airserbia.com website.	The search engine loads successfully.		Passed
2	In the "From" field, enter the location "Tirana."	The location "Tirana" appears in the first position in the suggestion.		Passed
3	In the "To" field, enter the location "Athens".	The location "Athens" appears in the first position in the suggestion.		Passed
4	Click on the date field.	A date picker appears with the available time range.		Passed
5	Select the available range from the date picker.	The range has been correctly entered into the date field.		Passed
6	Click on the "Passengers" field.	A pop-up appears with the option to select the number of passengers in the age group: adults, children, infants.		Passed
7	Increase the number of passengers in each age group to 2 passengers.	The number of passengers is correctly calculated in each age group and in the "Passengers" field.		Passed

8	Enter the numbers "1234" in the "Promo code" field.	It is possible to enter numbers in the "Promo code" field.		Passed
Execution type:	Manual			
Estimated exec. duration (min):				
Priority:	Medium			
Requirements	None			
Keywords:	None			
Execution Details				
Build	version 0.0.9			
Tester	natela			
Execution Result:	**Passed**			
Execution Mode:	**Manual**			
Execution duration (min):	**30.00**			

Execution time metrics

Time used for executing 2 test cases (min):60