TEST PLAN

Kayak Website Project

QA Tester
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I. INTRODUCTION

The purpose of this test project is to verify the correct and complete implementation of the business requirements for the https://www.kayak.com/ project using the following methods:

1. **Functional Testing**
2. **Non-functional Testing**
   - **Browser compatibility**
   - **Mobile compatibility**
3. **Regression Testing**

The testing approach will follow the Agile methodology with the organization of the testing process in two stages:

1. **Test Preparation**

   - Business requirements analysis
   - Test cases creation
   - Set up test data
   - Test environment configuration

2. **Test Execution**

   - Test Runs
   - Defect Reporting
   - Correction check
   - Final Reporting

II. SCOPE

In testing scope - the purpose of the test is to functionally verify the following components of the website:

JIRA USER STORIES	SUMMARY	CURRENT STATUS
KYK-1	New Homepage	DONE
KYK-2	Search Flights Widget	DONE
KYK-3	Filter Search Results Page	DONE
KYK-4	Search Results Filter Widget	DONE
KYK-5	View and Claim Flight Deals	DONE
KYK-6	Mobile Views	DONE
KYK-7	Flights Track prices alert	DONE

For this, we will use positive and negative testing and regression testing.

From a non-functional point of view, the test will follow the adaptability of the product on the following browsers: Chrome/Safari (both desktop and mobile devices).

Out of testing scope - the following types of testing are not part of the purpose of this test session:

- Test performance
- Stress test
- Load test
- Testing partner's links availability
- Security testing

III. QUALITY OBJECTIVE

The main testing objectives are:

1. Ensure the Application Under Test (AUT) conforms to functional and non-functional requirements;
2. Ensure the AUT meets the quality specifications defined by the client;
3. Bugs/issues are identified and fixed before going live.

IV. ROLES AND RESPONSIBILITIES

ROLE	NAME	RESPONSIBILITY
QA Engineers	BAICU MARIANA DENISA	Performs test runs, report defects, and update the board.
Test Manager	BAICU MARIANA DENISA	Planning, coordination, and control of the testing activities.
Project Manager	INTERNAL PROJECT MANAGER	Plan, organize, and direct the completion of the project, ensuring that the project is on time, on budget, and within scope.
Developers	INTERNAL DEVELOPERS TEAM	Analyze the project needs, create, test, and develop software features.
Technical Lead	INTERNAL TECHNICAL LEAD	Oversees the developers team, leads software development and troubleshoots technical issues.
Business Analyst Lead	INTERNAL BUSINESS ANALYST	Identify business areas of improvement to increase efficiency through technical requirements.
Release Manager	INTERNAL RELEASE MANAGER	Responsible for the release management lifecycle.

V. TEST METHODOLOGY

Agile

This project will be carried out under the agile methodology. It will allow closer collaboration between the testing team and the developers because it allows greater adaptability to the challenges within the project (blocking defects, lack of resources, and competition).

The sprints will be scheduled for two weeks each and the final version will be released at the end of the last sprint.

Test Levels

All levels of testing are used starting with Static testing, Unit Testing, Integration Testing and Regression Testing (if needed at the end) runs by developers.

System testing level is part of the QA Engineers team, from this section test scenarios will be developed to ensure the quality of the product.

Acceptance testing is made by the QA Engineers team and a small community that will have access to a Pre-PROD environment of the project. Our guests will test from the UI and UX point of view.

Defects Triage

Defects will be prioritized for resolution according to the following criteria:

1. Severity
2. Priority
3. Their appearance during the testing phase

Defects will track the status stream below:

1. To-Do
2. In Progress
3. Done

The fixing time should be 1-2 days from the opening of each defect.

Test Completeness

To consider the test complete, we consider the following criteria:

1. Each US must have at least 1 TC;
2. All TCs are running with a positive result;
3. All defects reported during block severity, emergency, and major testing should be resolved and closed.

Test Deliverables

During the testing process, the QA Engineers team will deliver the following documents:

1. Test Plan
2. Test Cases
3. Requirement Traceability Matrix
4. Bug Reports
5. Test Strategy
6. Test Metrics
7. Customer Sign Off TCR

VI. RESOURCE & ENVIRONMENT NEEDS

Testing Tools

1. Atlassian Jira
2. Zephyr Scale Jira Extension
3. Laptop with Internet connection and Chrome browser installed
4. Mobile Phone with iOS and an internet connection and Chrome browser installed

Test Environment

All test cases will run on a pre-prod environment previously set up.

VII. TERMS/ACRONYMS

TERM/ACRONYM	DEFINITION
AUT	Application Under Test
QA	Quality Assurance
TC	Test Case
US	User Story
TCR	Test Completion Report