**TAROM**

Test Plan

**Revision History**

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| **Date** | **Description** | **Author** | **Comments** |
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**1. Introduction**

Tarom is a comprehensive airline application that provides an effortless and convenient way to book and purchase flight tickets, check-in, choose from a wide range of domestic and international destinations, and get up-to-date information about scheduled flights.

With Tarom, you can easily manage your travel plans and enjoy a hassle-free flying experience. Whether you're planning a quick domestic trip or a long-haul international journey, Tarom has got you covered with its reliable air transport services and exceptional customer support.

**1.1 Project Objective**

The objective of this project is to test the functionality of the website without encountering any errors or bugs in the real environment. Additionally, we will assess the usability of the website to determine whether the features are convenient for the user or not.

<https://www.tarom.ro/>

**1.2 Functionalities in scope**

Our testing will focus on three main functionalities: ***Passenger information,*** ***Book and Check-in.***

1) **Passenger information** - we will test only Luggage ,

2) **Book -**  we will test only : From-To, Travel Type, From – To ( select date), Passenger/cabin.

3) **Check-in –** we will test only Check-in warning message.

During the testing process, we will perform functional testing, which includes smoke testing, positive testing, and negative testing. Additionally, we will conduct non-functional testing, such as usability testing, performance testing (stress, load, volume, and spike), retest and regression testing.

**1.3 Functionalities and tests out of scope**

Some features were not tested because they were not included in the software requirement specifications. These features include Trip Planning, My Booking, Information, Search button, and other information on the main page except for Passenger Information, Book, and Check-in.

**2.Test process**

**2.1 Test planning**

**Roles and responsibilities**

|  |  |
| --- | --- |
| QA Lead | Team Lead / Test lead - monitors the testing process, coordinates the QA team, creates the test plan, maintains communication with the stakeholders, ensures that the testing process reaches its deadline |
| Zaharia Ionica | Will test Passager information Luggage, Book (From-To, Travel Type, From – To ( select date), Passenger/cabin, Check-in(Check-in,warning  message. |

**Entry criteria:**

1)Test environment up and running

2)Smoke testing passed

3)Permissions available

4)Business requirements are available and agreed, completed by the analyst

5)Roles and responsibilities established and agreed

6)Projects risks identified and mitigated

7)Deadlines established

8)Objectives of testing established, communicated within the team

**Exit criteria:**

1)Minimum 95% of all tests passed 2)No critical defects opened 3)The objectives have been accomplished 4)The deadline has been reached 5)The budget has been reached 6)Test report summary 7)All defects have been documented and communicated to stakeholders 8)Test updates passed 100%

**Risks and Issues**

- The team members lack the necessary skills for website testing. We can create a training course plan to qualify your members.

- The project schedule is too tight, making it difficult to finish the project on time. We can set test priority for each test activity to help manage the time constraints.

- The test manager has poor management skills. We can create a management training plan for the manager to improve his/her managerial skills.

- A lack of cooperation negatively affects employee productivity. To encourage each team member in their task, we can establish a collaborative work environment.

- There have been budget misestimations and cost overruns. To avoid such issues, we can establish a clear scope of work before starting the project, pay close attention to project planning, and constantly track and measure progress.

**2.2 Test analysis**

In order to ensure that Tarom's software requirement specifications are met, the following features need to be tested:

Luggage - When placing the cursor on passenger information, a list with luggage information and other details should appear.

From-To - Passengers should be able to select their departure and arrival destinations.

Travel Type - Passengers should be able to choose between a one-way or return ticket.

From-To (Select Date) - Passengers should be able to choose their departure and return dates.

Passenger/Cabin - Passengers should be able to select the number of adults, children, infants and the cabin type.

Check-in Warning Message - Passengers should receive a warning message reminding them to check-in before their flight. Check-in should be possible between 30 hours and 1 hour before the flight.

**2.3 Test design**

1.All the test cases are written and reviewed

[Tarom page header - functionality](https://itfclasses.atlassian.net/browse/IZT-43) - We check if the categories in the menu page are functional

[Tarom page header - design](https://itfclasses.atlassian.net/browse/IZT-42) - Visual elements fit the layout and design properly

[verify how you can check-in before your flight](https://itfclasses.atlassian.net/browse/IZT-39) - verify how you can check-in before your flight., with a maximum of 30 hours and a minimum of 1 hour

[coverage for infants from 0-23 months on the date of travel](https://itfclasses.atlassian.net/browse/IZT-36) - coverage number infants from 0-23 months on the date of travel with number adults and cabin

[coverage for children from 2-11 years old on the date of travel](https://itfclasses.atlassian.net/browse/IZT-35) - coverage number children from 2-11 years old on the date of travel with or without adults and cabin

[adult coverage from 12 years](https://itfclasses.atlassian.net/browse/IZT-34) - coverage adult number from 12 years \_+ ,\_ also check cabin

[travel data coverage](https://itfclasses.atlassian.net/browse/IZT-32) - travel data coverage

[check the search flights button-](https://itfclasses.atlassian.net/browse/IZT-30) check the search flights button

[check the travel box display](https://itfclasses.atlassian.net/browse/IZT-28) - check the travel box display

[To- give location suggestions after entering numbers](https://itfclasses.atlassian.net/browse/IZT-25) - To- give location suggestions after entering numbers

[From- give location suggestions after entering numbers-](https://itfclasses.atlassian.net/browse/IZT-23) From- give location suggestions after entering numbers

[Passenger information- Luggage list](https://itfclasses.atlassian.net/browse/IZT-19) - Passenger information- Luggage list. When we place the cursor on passenger information, a list with luggage information and others appears

**2.4 Test implementation**

To ensure successful testing, it's important that the environment is ready. This is achieved by validating it through smoke testing. Test Analysts organize and prioritize tests, creating test suites from the test procedures for efficient execution. It's crucial to verify that the test environment has been set up correctly. Actual results are then compared to expected results, with tests grouped based on objectives such as functional, regression, and acceptance testing.

**2.5 Test execution**

Our testing process involves multiple steps to ensure that the applications work seamlessly across different browsers.

We conduct tests on popular browsers such as Chrome, Mozilla Firefox, and Microsoft Edge to see how the applications behave on them.

During the testing process, we carefully document any bugs or issues we find and report them to the development team.

To ensure that all the identified bugs have been fixed, we use retesting and regression testing methodologies. Retesting involves testing the application after the identified bugs have been fixed to ensure that the application works as expected.

Regression testing involves testing the application thoroughly after the identified bugs have been fixed to ensure that fixing those bugs has not caused any new issues in the application.

We generate weekly test reports that provide insights into the testing process. These reports help us monitor the testing process and control the activity to ensure that the applications are tested thoroughly and efficiently.

**2.6 Test closure**

- not less than 95% of tests are passed

- no critical issues have open status

- Project risks and product risks are resolved

- Test summary report has been generated and was sent to the stakeholders

**2.7 Test monitoring and control**

- Continuous monitoring of the entire testing process ,

- Keeping track of important test metrics using Dashboards

- Key Performance Indicators: Active Defects, Authored Tests, Covered - - Requirements,Defects Fixed Per Day, Passed Requirements, Rejected - Defects,Reviewed Requirements, Defects Closure Rate

- Will be taken corrective actions based on test monitoring reports to - - improve quality and efficiency,

- Identify and take corrective measures against new risks that may occur during testing in order to minimize the impact that can be caused

**3 Test deliverables**

**3.1 Test plan - link to test plan**

**3.2 Test conditions**

The test conditions will be based on validated business requirements in the test analysis phase and will represent the features to test and transform into test cases.

**3.3 Test cases**  
<https://itfclasses.atlassian.net/projects/IZTselectedItem=com.thed.zephyr.je__test-cases>

**3.4**

<https://itfclasses.atlassian.net/projects/IZT?selectedItem=com.thed.zephyr.je__test-summary-project-level>

**3.5 Traceability matrix**  
 [traceability](https://itfclasses.atlassian.net/jira/dashboards/10254) matrix

**3.6 Test case results**  
[**https://itfclasses.atlassian.net/projects/IZT?selectedItem=com.thed.zephyr.je\_\_test-cases**](https://itfclasses.atlassian.net/projects/IZT?selectedItem=com.thed.zephyr.je__test-cases)

**3.7**<https://itfclasses.atlassian.net/jira/software/c/projects/IZT/issues/?jql=project%20%3D%20%22IZT%22%20and%20type%20%3D%20Bug%20ORDER%20BY%20created%20DESC#:~:text=Different%20layout%20I,can%20be%20interpreted>

**3.8 Test completion report**  
[**https://itfclasses.atlassian.net/jira/software/c/projects/IZT/boards/400/reports/version-report?version=10417**](https://itfclasses.atlassian.net/jira/software/c/projects/IZT/boards/400/reports/version-report?version=10417)

**3.9 Schedule**

* Testing is done during a 1 month, starting from 29.02.2024
* In order to finish the regression run we would need to run an ~ of 40 tests/day