Test Plan “UkrRailway”

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Romanchenko.V

QATestLab

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# Introduction

## Purpose

The purpose of this test plan is to describe the testing process of UkrRailway site (full URL Website [**https://uz.gov.ua/**](https://uz.gov.ua/)). This document describes the methods and procedures that will be used in the functional testing process of the website.

## Source data

Website [**https://uz.gov.ua/**](https://uz.gov.ua/) allows to customers place orders on tickets, services and find out about news or train schedules, use feedback.

The objective of the testing activities is to check functions and features of website for web browsers (Chrome, Firefox, Opera).

## Scope

The purpose of testing the UkrRailway site is to check the correct operation of all its functions on different versions of browsers with typical use cases. A fraction of the time (20%) will be used to test atypical / potentially error-prone usage scenarios.

The result of the testing process will be the following materials:

* report of the testing team regarding the general state, giving the developers and managers of this product a picture of the site’s correct operation in various browsers;
* report of the results of testing the current coverage, typical use cases / browsers;
* documented bugs in the bug tracker of the customer;

Testing will be done manually, by the ad-hoc testing method from the perspective of the end user of the site.

# Conditions for testing

The website should satisfy the user's need for lace orders on tickets, services and find out about news or train schedules, use feedback.

# Testing strategy

The following test plan is formal, as understanding of the current state of the project is needed to build a detailed plan. As a result of the first run of functional tests, changes and improvements will be made to the test plan. The first run of the functional tests will give a clear idea of the level of stability of the system and the set of tests that will be performed in each configuration will be clearly defined.

This approach will give an opportunity to get a detailed report on the product being tested and to focus maximum attention on narrow places.

The customer will be provided with daily reports on the progress of testing, defects found, suggestions for improving the work of the product and its design. All detected defects will be reported to the customer's tracker as separate tickets for subsequent correction.

In the process of testing the UkrRailway site ad-hoc testing will be applied due to the lack of strict specification, as well as due to limited resources for the formalization of tests.

**Five stages of the testing process are planned:**

* the first stage is to analyze the technical requirements, develop a test plan, and run the functional tests partially;
* second stage will be devoted to a detailed run of the functional tests with the detection and description of defects;
* at the third stage, cross-browser compatibility testing will be performed with a description of the defects found;
* the fourth stage is to check the bugs fixed by the developers and conduct regression testing;
* the fifth stage is to test the product design with a description of the defects found.

Thus, maximum detailing of the testing depth is achieved, which, in turn, allows to determine the spent resources more accurately, as well as allows project developers to correct defects at the earliest stages.

**OS, approved for testing:**

* Windows 10
* MAC OS 10.14 Mojave

**Browsers, approved for testing:**

* Internet Explorer 11
* Google Chrome 66
* Opera 52
* Firefox 60
* Safari 10

The security testing and the stress testing are not conducted due to lack of testing time.

## Testing types

### **Functional testing**

**Objective:**

Identify functional errors, inconsistencies with the requirements and expectations of the user through the implementation of standard as well as non-trivial test scenarios.

**Process description:**

**Registration / Authorization**

• User registration

• User authorization

• Anonymous user

• Password recovery

• Editing an account

**Profile**

* Profile editing
* Deletion of the account
* User status view function
* User logout from personal account

**Cart**

• Adding tickets

• Presence of notifications

• Correct summation of tickets

• Changing quantity of tickets

**Verify**

• Return to previous step in stages at checkout

• Changing/deleting the quantity of tickets at the order stage

• Sending and delivering messages

**Feedback form**

* Attaching a file to a post
* Sending a message
* Getting an answer

**Search**

* Search by news, sections
* Search by date/destination
* Search by train number

**Banners**

* Flipping images

**Captcha**

* Update function
* Validation function

### **Cross-browser testing**

**Objective:**

Check the correct operation and design of the project in various browsers.

**Browsers**

* Internet Explorer 11
* Google Chrome 66
* Opera 52
* Firefox 60
* Safari 10

### **Regression testing and verification of fixed defects**

**Objective:**

Checking the changes made on the site in order to make sure that the new version does not contain errors in the already tested parts of the site.

In the course of regression testing, the following types of tests will be conducted:

* Verification Tests
* Version testing
* Testing related functionality

### **Testing the design**

**Objective:**

Verification of product design compliance with specifications

**Process description:**

* Registration form
* Letter to the user
* Personal account
* Site pages

# Testing schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Workload** | **Start date** | **Expiration date** |
| Making a test plan | 12 hours | 25.01.2023 | 26.01.2023 |
| Test execution |  |  |  |
| Test Analysis |  |  |  |
| Summarizing |  |  |  |

# Final results

The outcome of the testing process will be the following materials:

• The test team's summary of the overall condition, giving developers and product managers a picture of how the site works correctly in different browsers;

• A report on the results of testing the current coverage of typical use cases/browsers;

• Documented bugs in the customer's bug tracker.

## Resume

The final result of the testing should be the complete summary consequence of testing process with the described defects and recommendations for the improvement of the product from the perspective of the end user.

The outcome of the testing process will be the following materials:

• The test team's summary of the overall condition, giving developers and product managers a picture of how the site works correctly in different browsers;

• A report on the results of testing the current coverage of typical use cases/browsers;

• Documented bugs in the customer's bug tracker.

**Environmental Needs**

- Unlimited credit card Visa and MasterCard for testing payment process.

**Responsibilities**

1) Project Manager:

● Managing the whole testing process.

● Providing all the needed resources for the testing activities.

2) QA Tech Lead:

● Managing the QA team from a technical perspective.

● Analyzing the tasks and distributing them between team members.

● Communicating with the client team and discussing all issues, providing recommendations before an update or release.

● Experience in participation of different SDLC models like Agile, Scrum, Kanban, Sequential, Iterative and Incremental.

● Creating test documentation, including test cases, test plans, etc.

● Proposing best practices and tools for a project.

3) QA Engineer:

● QA process / logging found errors into the approved bug tracking system.

**Schedule**

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Scope of work | Start date | End date |
| Drawing up a test plan | 12 hours | 26.01.2023 | 26.01.2023 |
| Performing testing |  |  |  |
| Test Analysis |  |  |  |
| Summarizing |  |  |  |

**Risks and Contingencies**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| Team member lack the required skills for website testing. | Plan **training course** to skill up your members |
| The project schedule is too tight; it’s hard to complete this project on time | Set **Test Priority** for each of the test activity. |
| Test Manager has poor management skill | Plan **leadership training** for manager |
| A lack of cooperation negatively affects your employees’ productivity | **Encourage** each team member in his task, **and inspire** them to greater efforts. |
| Wrong budget estimate and cost overruns | Establish the **scope** before beginning work, pay a lot of attention to project planning and constantly track and measure the progress |