Test Plan “UkrRailway”

**2023**

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QATestLab

Version 1.0

25.01.2023



**Test Plan**

**“UkrRailway”**

**Site: https://uz.gov.ua/**

**Date: 07.12.2022**

**Version: 1.0**

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**Revision history:**

|  |  |  |  |
| --- | --- | --- | --- |
| date | version | Description | Author |
| 07.12.2022 | 1.0 | Creation | Romanchenko.V |
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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.

**Test Items**

Website [**https://uz.gov.ua/**](https://uz.gov.ua/).

**Features To Be Tested**

The following components and functions will be tested (level of risk is indicated in brackets):

1. Registration (L)
2. Login and password recovery (M)
3. Ticket searching (H)
4. Ticket ordering (H)
5. Payment (H)
6. Ways to get payed tickets (e.g. e-mail, uploading from site) (H)
7. Other services ordering (L)

**Features Not To Be Tested**

The following components and functions won’t be tested:

1. Section of the site "Persons with disabilities" (due to need in staff with certain qualification).
2. Section of the site "International routes" (due to reference to another resource (**https://uz-vezemo.com/**) which testing is planned in another project).

**Approach**

**Ad-hoc testing** is selected as main approach of testing from the position of the end user of the website due to absent of Requirements Specifications, Design Specifications and Users Guides etc. In this approach will be involved following types of testing:

* “buddy testing”;
* pair testing;
* “monkey testing”.

**Item Pass/Fail Criteria**

* 1. Technique Criteria:
* The expected results occur when valid data is used.
* The appropriate error or warning messages are displayed when invalid data is used.
* Each rule is properly applied.
  1. Entry Criteria:
  + The website construction is completed.
  + The test engineers are dedicated.
  + Necessary devices, instruments, and other equipment are acquired. Test environment is prepared, and the website is released to the test environment
  1. Completion Criteria:
* All the planned tests are performed.
* There are no show-stopping errors.
* All the errors of high priority and severity are fixed.
* The test results are evaluated, discussed and approved.

**Suspension Criteria and Resumption Requirements**

Not defined.

**Test Deliverables**

1. Test plan
2. Bug reports and reports regarding the testing progress.

**Test Tasks**

The purpose of testing the site [**https://uz.gov.ua/**](https://uz.gov.ua/) is to check the correct operation of all its functionality on different versions of browsers with typical scenarios for its use. Part of the time (approximately 20%) will be used to test atypical/potentially buggy use cases.

During the testing process is planned execution of each use case, use-case flow, or function, using valid and invalid data, to verify according to Pass/Fail Criteria

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of testing** | **Purpose** | **Process description:** | |
| 1.1. Functional testing. | Identification of functional errors by implementing standard as well as non-trivial test scenarios. | 1.1.1. Registration / Authorization | • User registration • User authorization • Anonymous user • Password recovery • Editing an account |
| 1.1.2. Personal Area | • Editing the questionnaire • Ability to delete a profile • User exit from personal account |
| 1.1.3. Basket | • Adding tickets • Presence of notifications • Correct summation of tickets • Changing quantity of tickets |
| 1.1.4. Verify | • Return to previous step in stages at checkout • Changing/deleting the quantity of tickets at the order stage • Sending and delivering messages |
| 1.1.5. Feedback | • Filling of fields with correct data • Filling of fields with incorrect data |
| 1.1.6. Search | • Search by date/destination |
| 1.1.7. Banners | • Correct display of banners • Correct transition to the relevant pages |
| 1.2. Cross browser testing | To check the correct operation and design of the project in various browsers | 1.2.1. Google Chrome latest version | |
| 1.2.2 Mozilla Firefox latest version | |
| 1.2.3. Opera latest version | |

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 | 08.12.2022 | 09.12.2022 |
| 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 |