Site <https://www.olx.ua/uk/>

**Test Plan**

*Purpose: [Describe the testing process of OLX site (full URL* [*https://www.olx.ua/uk/*](https://www.olx.ua/uk/)*). The document allows to get an idea of the planned work on project testing.]*

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Author | Description |
| 20.10.2022 | 1.0 | Oksana Zhyrak | Creating |
| 10.11.2022 | 2.0 | Oksana Zhyrak | Updating |

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## Introduction

## Purpose

The purpose of this test plan is to describe the testing process of OLXsite ( full URL <https://www.olx.ua/uk/> ). The document allows to get an idea of the planned work on project testing.

The goal of this document is to define:

* The correct operation of all site functions on different browsers
* The test scope, focus areas and objectives
* The test responsibilities
* The test strategy for the levels and types of test for this release
* The entry and exit criteria
* The basis of the test estimates
* Any risks, issues, assumptions and test dependencies
* The test schedule and major milestones
* The test deliverables

## Source data

OLX is one of the largest online businesses in Ukraine.

The base of the site includes almost 10.8 million ads and is replenished with more than 3 million new offers every month.

The OLX has the highest traffic in the country after Google, YouTube, and Facebook. Every second Ukrainian online user visits OLX at least once a month.

OLX improves people's lives by connecting them together for mutually beneficial deals. Sellers can easily make extra money by simply posting ads and selling items they no longer need or new items. Thus, they enable buyers to find valuable goods at reasonable prices.

OLX is a site that allows the user to order and sell a wide range of various children's things, houses, plots of land, transport, parts for transport. You can also post your resume to search for a job or view current vacancies by yourself. The user can buy or sell products for animals, for home and garden, various gadgets, clothes or even business. There is a category for exchanging goods and for giving as a gift. User can also create an ad about the services he can provide or about the help which he needs.

## Scope

This document details the testing that will be performed by the Oksana Zhyrak for the <NIX course> project. It defines the overall testing requirements and provides an integrated view of the project test activities. Its purpose is to document:

* What will be tested;
* How testing will be performed;
* What resources are needed, and when.

### In scope

The test scope includes functional testing, GUI testing, usability testing, integration testing, cross-browser testing.

Testing will be done manually, by the client acceptance testing approach, from the perspective of the end user of the site.

### Out of scope

The following are considered out of scope: performance testing (can be interpreted as some sort of DDOS attack), security testing (can be interpreted as some sort of hacking), auto tests (lack of knowledge), mobile testing (lack of time), unit testing (as the only environment available is production), White/Grey-Box testing (lack of access to the code).

### Features to be tested

The following is a list of the areas to be focused on during the testing of the OLX site:

* registration/authorization form,
* language switcher,
* sending/viewing/editing messages,
* search field,
* adding/removing goods to wish list,
* profile categories,
* view/edit/save/submit ad,
* import image file,
* different filter items,
* currency filter,
* sorting filter,
* viewing ads information/picture/phone number/location,
* social media links

### Features not to be tested

The following is a list of the areas that will not be specifically addressed during testing of the site:

* OLX for business,
* external links,
* internal footer links.

**Type of testing which will be performed**

* **Regression Testing**

**Regression Testing** is defined as a type of software testing to confirm that a recent program or code change has not adversely affected existing features.

* **Platform Testing**

OS approved for software testing is Windows 10.

* **Cross-browser Testing**

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

* **Usability Testing**

Usability testing refers to evaluating a product by testing it with representative users. The goal is to identify any usability problems, collect data and determine the participant's satisfaction with the product.

Check that information is easy to find (minimal clicks). Test that content provides meaningful, useful information.

* **GUI Testing**

**GUI Testing** is a software testing type that checks the Graphical User Interface of the Software. The purpose of Graphical User Interface (GUI) Testing is to ensure the functionalities of software application work as per specifications by checking screens and controls like menus, buttons, icons, etc.

Test the good use of basic design principles: contrast, proximity, and alignment. Test the horizontal scrolling after zooming. It should appear when the scaled page does not fit completely. Check the balance of text/graphics/white space on page. Check good contrast between text and background. Test image tags for use the alt attribute to configure an alternate text description using DevTools.

* **Integration Testing**

Integration testing is the phase in software testing in which individual software modules are combined and tested as a group. Registration and authorization via Facebook.

## Test strategy

### Test Type & Approach

|  |  |
| --- | --- |
| Test Type | Objectives |
| Functional testing | * Testing will occur in an iterative and controlled manner, ensuring the solution matches the defined requirements. |
| Non-functional testing | * Testing should increase usability, efficiency, maintainability, and portability of the product. * Helps to reduce production risk and cost associated with non-functional aspects of the product. * Optimize the way product is installed, setup, executes, managed and monitored. * Collect and produce measurements, and metrics for internal research and development.   Improve and enhance knowledge of the product behavior and technologies in use. |
| Regression testing | * Testing to confirm that a recent program or code change has not adversely affected existing features.  It ensures that the old code still works once the latest code changes are done. |
| Cross-browser testing | Check the correct operation and design of the project in various browsers. |

### Test design technics

* Equivalent Class Partitioning
* Boundary Value Analysis
* State Transition
* Pairwise Testing
* Error Guessing

### Facility, data, and resource provision plan

#### Test environment

*Browsers, approved for testing:*

* Google Chrome 106.0.5249.119
* Firefox 106.0.5

#### Access to other applications

* A web browser with access to the internet
* Access to Microsoft Excel and Microsoft Word

#### Data Requirements

User authorization data

Login: oksanakuzyk0309@gmail.com, password: 123456789test.

#### Resources & Skills

* A resource with DevTools skills;
* A resource with https://pairwise.teremokgames.com/;
* A resource with internet technologies understanding.

### Testing Tools

The following tools will be used for testing:

| Process | Tool |
| --- | --- |
| Test case creation | Microsoft Excel, PairwiseTool |
| Test case execution | Manual, DevTools |
| Checklist creation | Microsoft Excel, PairwiseTool |
| Checklist execution | Manual, DevTools |
| Bug report creation | Microsoft Excel, DevTools |
| State transition diagram | DRAW IO |

### Stages of testing process

**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.

## Environmental needs

### Test Environment Map

### Test Environment Details

### Testers

1 tester - Oksana Zhyrak.

### Hardware and Firmware

Processor: 1.6 GHz, Dual-Core Processor

RAM: 4 GB for 64-bit Systems and 2 GB for 32-bit Systems

Hard Disk Space: 4 GB

Graphics Card: DirectX 10 Graphics Card

Display Resolution: 1024×468

### Software

***OS:*** *Windows 10*

***Browsers:***

* *Google Chrome 106.0.5249.119*
* *Firefox 106.0.5*

### Establishing Environment

|  |  |  |
| --- | --- | --- |
| Task | Start Date | End Date |
| Setup | 19.10.2022 | 19.10.2022 |
| Installation | 19.10.2022 | 19.10.2022 |
| Testing | 20.10.2022 | 20.10.2022 |

### Environment Control

* Environment access
* Environment monitoring and support

### Environment Roles and Responsibilities

|  |  |  |
| --- | --- | --- |
| Role | Staff Member | Responsibilities |
| Test engineer | Oksana Zhyrak | Responsible for overall establishment, coordination and support of the test environment |

## Assumption and Dependencies

**Assumption**

Business analyst and development team members will be available to provide support, training and defect resolution to the test team member.

**Dependency**

Access to the system in the test environment will be configured by the system administrator for all test team members.

## Entry and Exit Criteria

***Entry criteria:***

1. Testing environment established
2. Approved business requirements
3. Adequate test data is available
4. Test plan is completed

***Exit criteria:***

1. All test cases (100%) are executed: failed cases have a satisfactory resolution
2. Defects were documented and reported
3. All critical and major defects are resolved and implemented

## Suspension and Resumption Criteria

***Suspension criteria:*** Specific holiday shuts down both development and testing.

***Resumption requirement:*** The holiday period ends.

***Resumption criteria:*** More than 70% of the test cases are failed.

***Resumption requirement:*** Bugs are corrected by new developers.

## Pass/Fail Criteria

***Passed criteria:*** The status of a test in which the actual result matches the expected result.

***Failed criteria:*** The status of a test in which the actual result doesn’t match the expected result.

***Passed criteria:*** No grammar mistakes on the page, there is no UI-discrepancy or usability problems.

***Failed criteria:*** There are grammar mistakes on the page, or UI-mistake or usability problems.

## Testing tasks

|  |  |
| --- | --- |
| Task | Responsibility |
| Creation of Test plan | Oksana Zhyrak |
| Creation of Checklist | Oksana Zhyrak |
| Creation of Test cases | Oksana Zhyrak |
| Execution of Checklist | Oksana Zhyrak |
| Execution of Test Cases | Oksana Zhyrak |
| Creation of Bug report | Oksana Zhyrak |
| Creation of Test report | Oksana Zhyrak |

## Test deliverables

Test deliverables contain:

* Test plan;
* Checklist;
* Test cases;
* Bug reports;
* Test report;
* State transition diagram.

## Risks

***Testing schedule is tight.***The testing team can control the preparation tasks and early communication with a QA Lead.

***Lack of electricity.***Buy an electro generator and prepare mobile internet.

***Ear alarm.*** Go to a bomb shelter with Internet access.

## Approvals

| Task | Responsible Person | Escalation/ Approver |
| --- | --- | --- |
| Systems Integration Signoff | Oksana Zhyrak | Denys Smaha |
| User Acceptance Testing Signoff | Oksana Zhyrak | Denys Smaha |
| Production Verification Testing Signoff | Oksana Zhyrak | Denys Smaha |

## Schedule and estimation

**A Three-Point Estimating Technique: PERT**

The Program Evaluation and Review Technique (PERT) is used to find the estimated time for activities to be completed when there are many unknown factors.

A technique used to estimate cost or duration by applying an average or weighted average of optimistic, pessimistic, and most likely estimates when there is uncertainty with the individual activity estimates.  
  
PERT estimate formula is: (O + 4M +P) / 6;

O-optimistic estimation  
P-pessimistic estimation  
M-most likely estimation

|  |  |  |  |
| --- | --- | --- | --- |
| Task name | Estimation parameters (hours) | Estimated hours | Actual hours |
| Creation of Test plan | O=5  M=10  P=12 | 9.5 | 8 |
| Creation of Checklist | O=10  M=12  P=15 | 12 | 14 |
| Creation of Test cases | O=8  M=10  P=16 | 10.5 | 10 |
| Execution of Checklist | O=7  M=10  P=15 | 10 | 8 |
| Execution of Test Cases | O=5  M=9  P=15 | 10 | 5 |
| Creation of Bug report | O=9  M=11  P=15 | 11 | 10 |
| Creation of Test report | O=5  M=9  P=13 | 9 | 6 |
| Total (hours) | 72 | | 61 |

## Training needs

| Training Requirement | Staff | Date |
| --- | --- | --- |
| Quality Assurance course | Oksana Zhyrak | 07.09.2022 |
| Read book: “DOT COM Testing, or a Guide to Gesture with Bugs in Internet Startups”-Roman Savin | Oksana Zhyrak | 20.10.2022 |

## References and Point of contact

References

The following documents have been used to assist in creation of this document.

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Document name** | **Version** | **Comments** |
| 1. | Test case | 1.0 | Creation, execution |
| 2. | Checklist | 1.0 | Creation, execution |
| 3. | Bug report | 1.0 | Creation |

Point of contact

The following people can be contacted in reference to this document.

|  |  |
| --- | --- |
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