



**Site [Sumy State University](#)**

**Test Plan**

**Version 2.1.1**

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Test Plan	Date: 24.01.2023

## Revision history

Date	Version	Description	Author
17.11.2018	1.0	Creating	John Doe
01.12.2018	2.0	Updating	Jane Ray
01.02.2019	2.1	Updating	John Doe

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## 1. Introduction

### 1.1 Purpose

The purpose of this test plan is to describe the testing process of Sumy State University site (full URL <https://sumdu.edu.ua>). The document allows to get an idea of the planned work on project testing.

### 1.2 Source data

Sumy State University – a site that allows the user to learn more about the university, view public news about events, photo galleries, get acquainted with the training materials, joining the university.

### 1.3 Scope

The purpose of testing the Sumy State University 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.

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## 2. Conditions for testing

The website should satisfy the user's need for activities related to viewing news about events, photo galleries, familiarization with training materials, and joining the university.

## 3. 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 Sumy State University 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.

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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, 11
- MAC OS 13.1 Ventura

**Browsers, approved for testing:**

- Microsoft Edge 109.0.1518.49
- Google Chrome 109.0.5414.75
- Opera 94.0.4606.64
- Firefox 108.0.2
- Safari 14.1.2

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

## 3.1 Testing types

### 3.1.1 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**

- Anonymous login

**Feedback form**

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

**Search**

- Search by news, sections

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- News date display function

### **Articles**

- Sharing of articles in all proposed social networks
- Photo display function

### **Photo galleries**

- Sharing of photos in all proposed social networks
- Scrolling the photos
- Zoom function
- Rotate photos
- The function of displaying a list of photos and the photos themselves

### **Video**

- Sharing of videos in all proposed social networks
- Streaming function
- Video playback

### **Banners**

- Flipping images

### **Captcha**

- Update function
- Validation function

### **Comments**

- Adding a comment
- Deleting comments

### **Downloading**

- Downloading documentation
- Downloading photo & video

### **Feedback**

- Working of social networks
- Working of the selection committee

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### 3.1.2 Cross-browser testing

#### Objective:

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

#### Browsers

- Microsoft Edge 109.0.1518.49
- Google Chrome 109.0.5414.75
- Opera 94.0.4606.64
- Firefox 108.0.2
- Safari 14.1.2

### 3.1.3 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

### 3.1.4 Testing the design

#### Objective:

Verification of product design compliance with specifications

#### Process description:

- Compliance of the layout with the product layoutr
- Product external style
- Site pages



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## 4. Testing schedule

Task	Workload	Start date	Expiration date
Making a test plan	12 hours	16.01.2023	24.01.2023
Test execution	150 hours	30.01.2023	17.02.2023
Test Analysis	10 hours	20.02.2023	21.02.2023
Summarizing	3 hours	22.02.2023	22.02.2023

## 5. Final results

### 5.1 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.