

# Test plan for online store

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## Introduction

The purpose of the created test plan is to test in detail functionality of the store based on the provided requirements. The address of the store is <https://sklep.sfd.pl/>

Any defects encountered will be corrected and forwarded to testers for confirmation testing.

## Scope of the tests

The levels of testing covered in the test plan are:

- Modular testing
- Integration testing
- Acceptance testing

Types of tests covered in the test plan:

- Functional testing - the software will be verified against the provided specifications
- Integration testing - testing of communication between APIs e.g. of the implemented przelewy24 module
- Automatic tests - implementation of automatic tests to key system functionalities according to provided test cases

Types of tests excluded from the test plan:

- Security tests - lack of competence of people in the team related to the field of pentesting.

## **Subject of the tests**

The subject of testing is the online store available at <https://sklep.sfd.pl/> together with all its functionalities.

## **Passing criteria**

### **1. Performance tests**

- Server response time must be no more than 500 ms
- The software must be able to withstand a load of 1,000 users at the same time

### **2. Functional tests**

- Acceptance criteria are consistent with the current implementation of the online store

### 3. Automated tests

- All test cases have been automated.
- Tests have been connected to CI/CD tools - Jenkins.

### **Criteria for failure to pass**

#### 1. Performance tests

- Server response time is greater than 500 ms

#### 2. Functional tests

- Implemented functionalities do not comply with the requirements

### **Input criteria**

- A running test environment
- The test environment must be similar to the production
- Access to an IOS device

### **Output criteria**

- All test cases executed
- All test types and levels included in the test plan tests have been implemented
- All defects have been corrected

### **List of functionalities to be tested**

- Product search engine - Test case 001
- Order placement process - Test case 002
- Integration with przelewy24 system - Test Case 003.
- Product creation - Test case 004
- Administration panel - Test case 005

## **Test environment**

Tests of the online store will be conducted on dedicated server  
<https://sklep.sfd.pl/>

The test environment is similar in parameters to the production environment.

Specifications:

Processor: 2 GHz

RAM: 4GB

Disk: 240GB

System: Linux Debian 17

The test will be conducted using the following devices:

1. DESKTOP-VOBHR2M

- Processor: AMD Ryzen 3 3200U with Radeon Vega Mobile Gfx 2.60 GHz
- Ram: 8,00 GB

2. Mobile device running IOS Iphone 13

- Processor: Apple A15 Bionic
- Ram: 128GB
- IOS version 18.3.2

## **Error categories**

We distinguish different priorities in our test plan:

- Failure
- Blocking error
- Major error
- Medium error
- Trivial error

## **Test location**

The tests will be conducted at the premises of the company producing the Software by the tester.

## **Test schedule**

### 1. Static testing

- Verification of prepared documentation
- Verification of user stories

Time: 10h

### 2. Functional testing

- Verification of implemented functionalities according to the prepared assumptions
- Reporting of defects
- Execution of test cases

Time: 30h

### 3. Performance testing

- Verification of server response time
- Verification of server load with users

Time: 14h

### 4. Automated tests

- Preparation of file structure
- Implementation of automated tests based on the provided test cases
- Connecting tests under the Jenkins tool
- Connecting tests under the Grafana tool

Time: 40h

## **Test reports**

- Reports on defects found
- Designed test cases
- Automated test scripts
- Metrics from performance tests

## **List of tools**

### **1. Defect reporting tools**

- Jira

### **2. Tools for creating test cases**

- TestLink
- XRay

### **3. Automation tools**

- WebdriverIO
- SuperTest
- Allure
- Jenkins
- Grafana

### **4. Performance testing tools**

- Jmeter

### **5. Tools for creating screenshots and videos**

- PicPick
- ShareX

## **Incident management**

When a defect is detected, such a defect will be reported to a system of defect management system, which is Jira. Such defects will have priority indicated in the test plan and a person who will correct the defect.

When the programmer fixes such a defect, it will then be handed over to the tester for confirmation testing.

When the defect is corrected correctly, the submission will be closed and moved to the column for done.

If the defect is incorrectly fixed, the submission on the newly will be forwarded to the programmer.

## **Roles and responsibilities**

Test manager - overseeing and organizing the work of the entire test team.

Test Analyst - analyzing the basis of testing. Preparing testwares needed for testing. Supporting the test manager.

Tester - Performs tasks assigned by the test manager, executes tests and reports defects.

System technical administrator - prepares the environment test environment and supervises it during the testing process.

