

TEST PLAN

Demo E-shop

15.09 – 18.09.2025

Author: Natalia Chernenkaya

Projekt: Demo E-shop

Date: 15.09.2025

OBJECTIVE

This document defines the plan for all testing activities for the online store “Demo E-Shop.” It specifies the testing scope, strategy, documentation, entry/exit criteria, risks, and schedule. The goal is to ensure high product quality and a positive user experience when using the e-shop.

PRODUCT OVERVIEW

The purpose of testing is to verify the correct functionality of the demo e-shop, including:

- **Display of categories and products**
- **Functionality of product cards, shopping cart, and order process**
- **Proper application of discounts and calculations**
- **Operation of the admin panel and additional features (export, reset)**

SCOPE OF TESTING

Frontend (User Interface)

- **Home page:** Display of all product categories with items.
- **Product card:** Name, price, stock quantity, image, “Add to cart” button.
- **Product detail:** Name, price, stock quantity, image.
- **Shopping cart:** Display of items, total price, ability to modify quantities.

Order process

- **Order form:**
 - Required fields: first name, last name, street, city, ZIP code, email, phone (with prefix).
 - Optional fields: date of birth, discount code, “student” checkbox.
- **Field validation:** max. 30 characters, valid email and phone format.

- **Discount rules:**
 - Age 65+ → -5%
 - FREESHIP8 → free shipping
 - AUDIO20PC → -20% on audio products
 - FLAT20 → -20 USD on total order
 - Student → -15%
 - Card payment → -5% (combinable)
- **Delivery methods:**
 - Pick-up point (free)
 - Delivery to box (5 USD)
 - Home delivery (15 USD)
- **Payment methods:**
 - Card (-5%)
 - Cash
 - PayPal
- **Order summary:** clear display of all entered data.
- **Order confirmation:** complete summary and purchase confirmation.

Admin Panel

- Product list with options to add, edit, or delete products.
- **Required fields:** Name, Category, Price, Stock, Image (select from list).
- **Optional fields:** Brand, Color, Description.
- Export of product list to Excel file.

OUT OF SCOPE

- Real integration with payment gateways (card payments simulated only).
- Performance and load testing.
- Security, authentication, and user permissions.
- Localization or multilingual testing.

TESTING STRATEGY

TESTING STRATEGY

Testing levels

- Functional
- System
- Integration
- User Acceptance

Testing types

- **Functional testing** – verification of all requirements per specification.
- **Form validation** – required/optional fields, limits, formats.
- **Discount logic** – all combinations of rules and edge cases.
- **UI/UX testing** – element layout, responsiveness, design validation.
- **Negative scenarios** – empty cart, invalid email, incorrect discount code.

ENVIRONMENT & TOOLS

- **Platform:** Desktop (Windows 11, Chrome 140)
- **Tools:** DevTools, Excel (for export validation)

- **TMS:** Google Sheets

TEST DOCUMENTATION & REPORTING

- **Deliverables:** Test checklists, test cases, bug reports, and final test summary report.

ENTRY CRITERIA

- Test environment (Demo E-Shop Frontend + Admin Panel) is available.
- All required features are implemented.
- Test data, browsers, and tools are prepared.
- Priorities and testing deadlines are defined.

EXIT CRITERIA

- All planned test cases and checklists executed (run rate = 100%).
- Test case pass rate $\geq 90\%$.
- No open **blocker** or **high-priority (P1)** defects.
- Maximum 10% of open **low-severity (P2, P3)** issues.
- Core product functionality works as specified.
- Final test report prepared and delivered.

RISKS & MITIGATION

- **Lack of documentation** → use initial requirements as the single source of truth.
- **Possible inconsistencies in discount logic** → test all discount combinations.
- **Excel export issues** → validate on multiple MS Office versions.
- **Potential delays** → prioritize smoke and critical functionality first.

TEST SCHEDULE

- **15.09** – Smoke test – basic functionality, application availability
- **16.09** –Functional testing – home page, product detail, cart, order, admin panel
- **17.09** –Discount logic, validation rules, negative scenarios
- **18.09** – UI/UX verification, final test summary preparation