

Testing website ROZETKA.COM

(<https://rozetka.com.ua/>)

If we were to develop this product, the checks would be primarily based on product testing **levels**.

UNIT testing - we check a separate element of the site, in the header of the search field, we check whether it is possible to write something there in general and whether the relevant information will be displayed after a search request.

INTEGRATION testing - we check the interaction of the product elements and the shopping cart, that is, if we select a certain product and click on the icon to add this product to the cart, we check whether this product was added to the cart.

SYSTEM testing - we will fully check the site for correct operation according to requirements or if we do not have requirements, then according to our user experience, for example, can we register and log in or can we choose a product, can we add to the cart and buy it or can we pay for the product and in general we check the interface for correctness and ease of use.

ACCEPTANCE testing - the site is almost completely ready for release and tested, but a final check is required before release to look for minimal minor bugs. We will use **BETA** testing - I asked my colleague or friend to test the site according to user requirements.

If the project has documentation that performs **static testing**, first of all, the requirements are checked, for example, BRD according to the characteristics of good requirements.

In the future, the site inspection itself will be **dynamic testing** (with running code).

Automation testing applies to REGRESSION testing, after adding new functionality.

All further testing will follow a **black-box methodology** because we do not have the opportunity to see the code.

1. **Smoke testing (Functional testing)** - we check the most critical areas of the website, the main functionality, without which it is not possible to use this site.
- Check whether an existing user can log in (positive and negative test scenarios will be used here)
 - **Positive:** enter the correct login and password of the existing user - press the "Login" button and see that the user will be logged in.
 - **Negative 1:** we enter the wrong login and the correct password of an existing user - click the "Login" button and see that the user will not be logged in.
 - **Negative 2:** enter the correct login and incorrect password of the existing user - click the "Login" button and see that the user will not be logged in.

- Check the adding of products to the cart:
 - 1) Select the "Computers and laptops" section,
 - 2) Choose "Laptops", select the notebook ASUS TUF Gaming F15 (2022), click on the cart icon next to the price of this laptop, and see if the product has been added to the cart.

- Verification of payment for goods by users (we verify all payment methods specified on the website)

2. **NON-Funticonal testing**

- **Load** (check the performance according to the requirement (for example, load is normal, when 1000 users can visit the website at the same time))
- **Stress**(we check the maximum and critical load on the site according to the requirements, i.e. if according to the requirements, the normal number of users who can visit the site at the same time is 1000 users, then we begin to gradually increase the number of users from 1000 and determine at what number of users the site starts to work more slowly, and for which it stops working)
- **Recovery**(we check how quickly the site can resume work after stress testing)
- **Volume**(we check the speed of the program under the condition of increasing the size of the Database (increasing the amount of information about products in the database after sales))

- **User interface** (we'll check if everything works well on the Front-End - if all buttons, and all links work correctly, if all images open, and if everything on the site is located according to requirements)
- **Usability** (check whether the site is user-friendly from an end-user perspective)
- **Compatibility, cross browsing** (check how the site works on different operating systems, different devices, different browsers)
- **Localization** (on the ROZETKA.COM website, it is possible to view information on the website in Ukrainian and Russian, so we need to check how well the translation is done)

If a bug was found at a certain stage of testing, then after fixing this bug, we will perform a **RETEST** of this functionality where the bug was found, and then we will do **REGRESSION** testing, which means retesting the functionality that is related to the functionality where the bug was found because fixing a bug in one function could lead to the appearance of bugs in another function related to the previous one.