

TEST REPORT

Project: <https://www.zootehnice.ro/>

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1. Objective

The main objective of the testing session for the website <https://www.zootehnice.ro/> is to guarantee its optimal functionality, meet customer expectations, and deliver a smooth purchasing experience. This comprehensive evaluation encompasses validating crucial functionalities, including account creation, login processes, efficient product search, seamless navigation through product categories, adding items to the shopping cart, streamlined checkout procedures, and additional features crucial for an enhanced user experience. The aim is to confirm that each aspect works as intended, free from any bugs or security vulnerabilities.

2. Product Description

The tested website is a registered domain in Romania, specializing in the sale of a variety of products related to animal husbandry. The platform provides items not only for farm management but also for household use. The website can be accessed via: <https://www.zootehnice.ro/>.

3. Testing Period

The site was tested between 23.10.2023 and 23.11.2023, with a focus on the main features and functionalities, including:

Features/Functionalities tested	
Autentificare	CONTINUA CUMPARATURILE
Recuperarea parolei	Cos
Contul meu	Wishlist
Social media	Compare
Afla Noutatile	FINALIZEAZA COMANDA
PRODUSE	Comanda
Cauta	Deconectare
Adauga in cos	

4. Test Environment

The testing phase involved a diverse environment, assessing the website's functionality and compatibility across various operating systems and browsers.

Windows 11 Education 22H2, with the Chrome browser version 119.0.6045.124, served as the primary testing platform. Cross-operating system compatibility was verified on Debian 12 and Ubuntu, representing the Linux ecosystem, with Mozilla Firefox as the browser.

Additionally, cross-browser compatibility was tested on Google Chrome (v. 119.0.6045.124), Microsoft Edge (v. 119.0.2151.58), Brave (v. 1.60.118 Chromium: 119.0.6045.163), and Mozilla Firefox (v. 109.0.1), ensuring seamless operation across popular browsers for enhanced accessibility and user experience.

5. Testing Tools

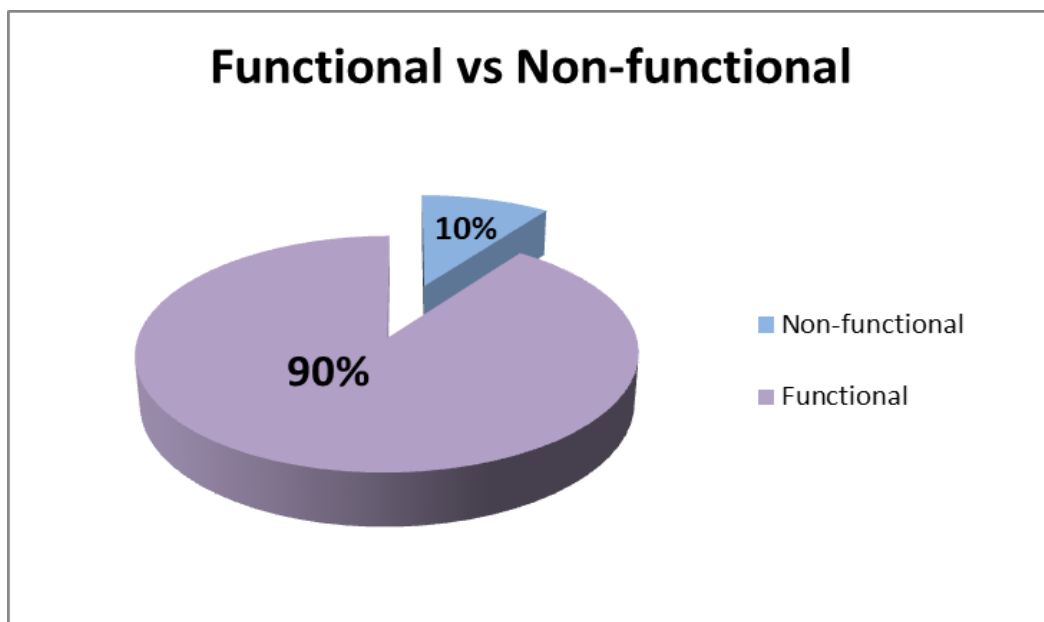
The testing process was facilitated by a set of essential tools that were used to make the testing process more effective and accurate:

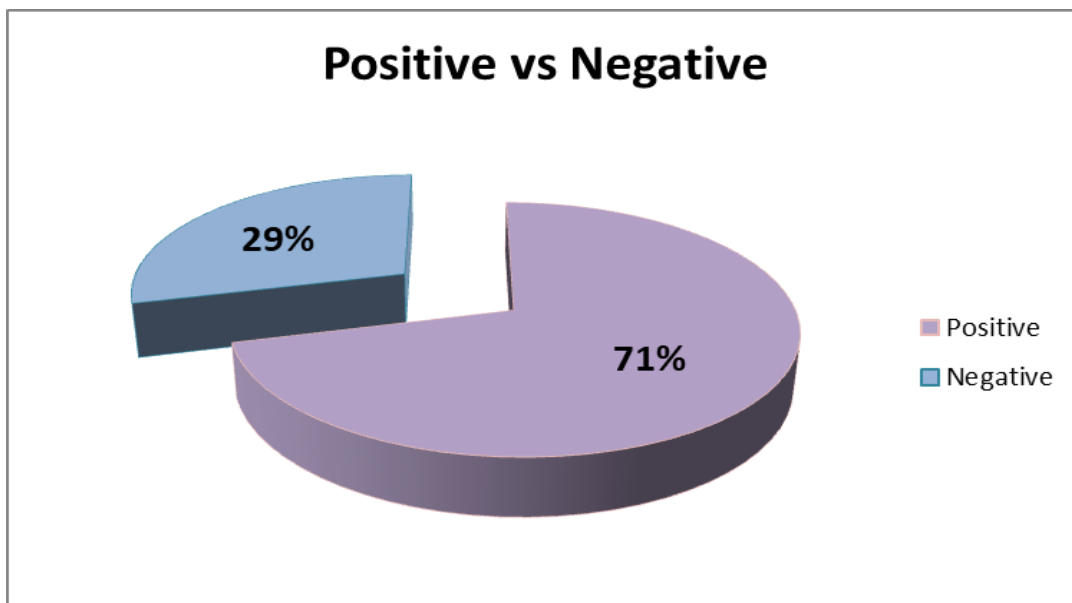
- **TestLink** – the primary test management tool, providing a structured and organized approach to test case management;
- **Mantis Bug Tracker** – for issue tracking;
- **Microsoft Office 2010** – utilized for its suite of applications;
- **Snipping Tool for Windows** – to capture and illustrate specific elements during testing.

6. Testing Types Used

Various testing types were employed to ensure a thorough examination of the system's performance:

- Functional testing
- Non-functional testing (compatibility, usability)
- Black box testing
- Smoke testing
- Positive testing
- Negative testing
- Exploratory testing
- Dynamic testing





7. Test Design Techniques

- Equivalence class partitioning
- Boundary value analysis

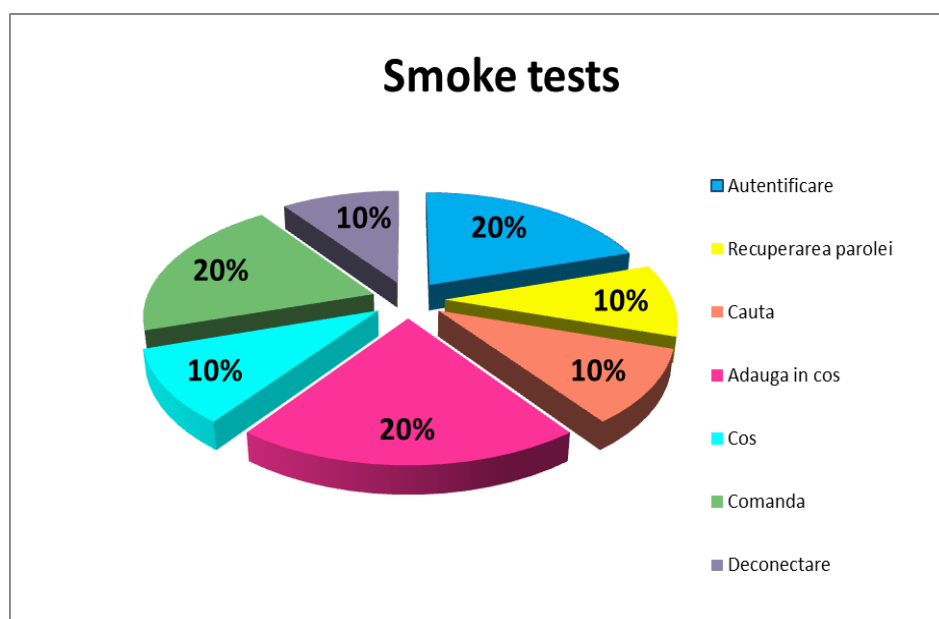
8. Smoke Tests

Smoke testing held significant importance within the testing procedures, providing a swift and effective method to confirm the proper functioning of essential features in an application. In the absence of specific requirements, the selection of test cases for smoke testing relied on the tester's past experience with similar ecommerce web applications.

The smoke suite comprises 10 test cases, representing 10% of the total test cases, and covers the evaluation of the following functionalities:

- Autentificare
- Recuperarea parolei
- Cauta
- Adauga in cos
- Cos
- Comanda
- Deconectare

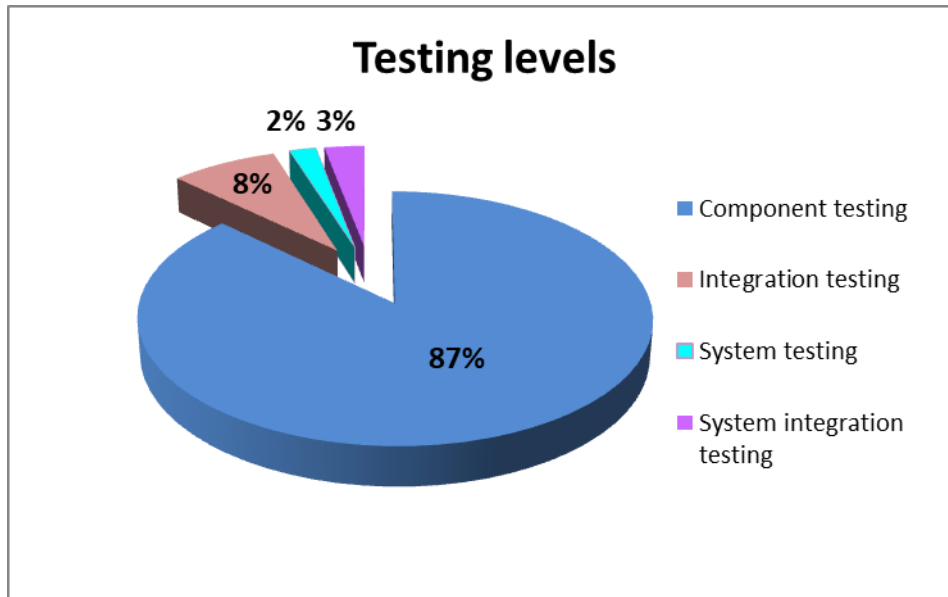
The pass rate for the Smoke suite is 100%.



9. Testing Levels

The testing levels that uniquely contribute to the overall testing process, providing a layered approach to verify the software's correctness and reliability, are:

- Component testing
- Integration testing
- System testing
- System integration testing

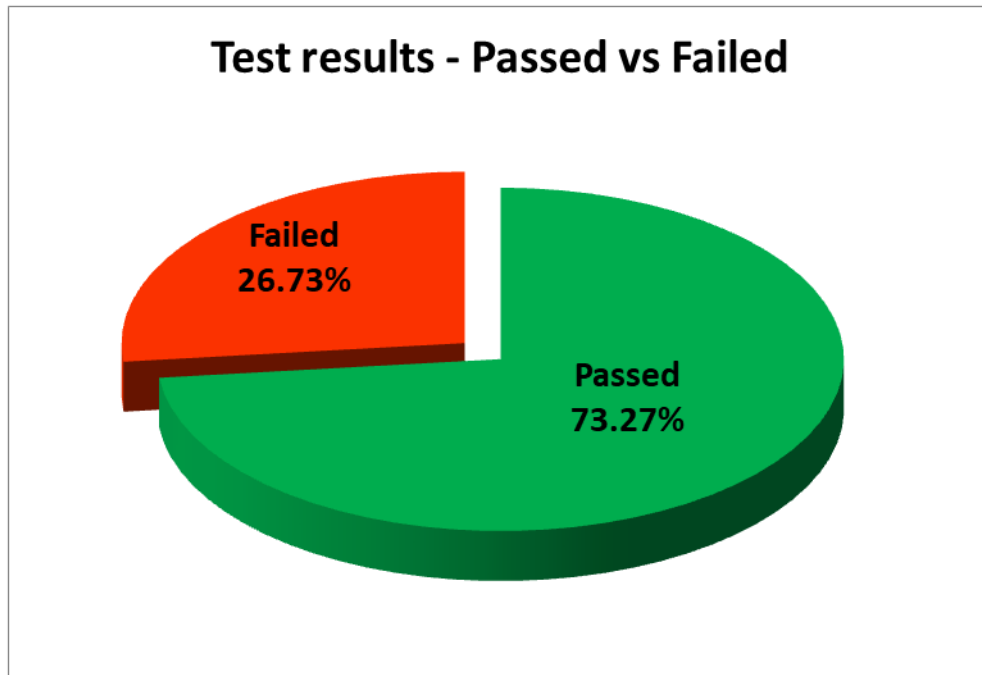


The highest weight was assigned to "Component Testing," with the primary components tested being:

- Autenticare
- Cos
- Adauga in cos
- Comanda
- Cauta

10. Test Results

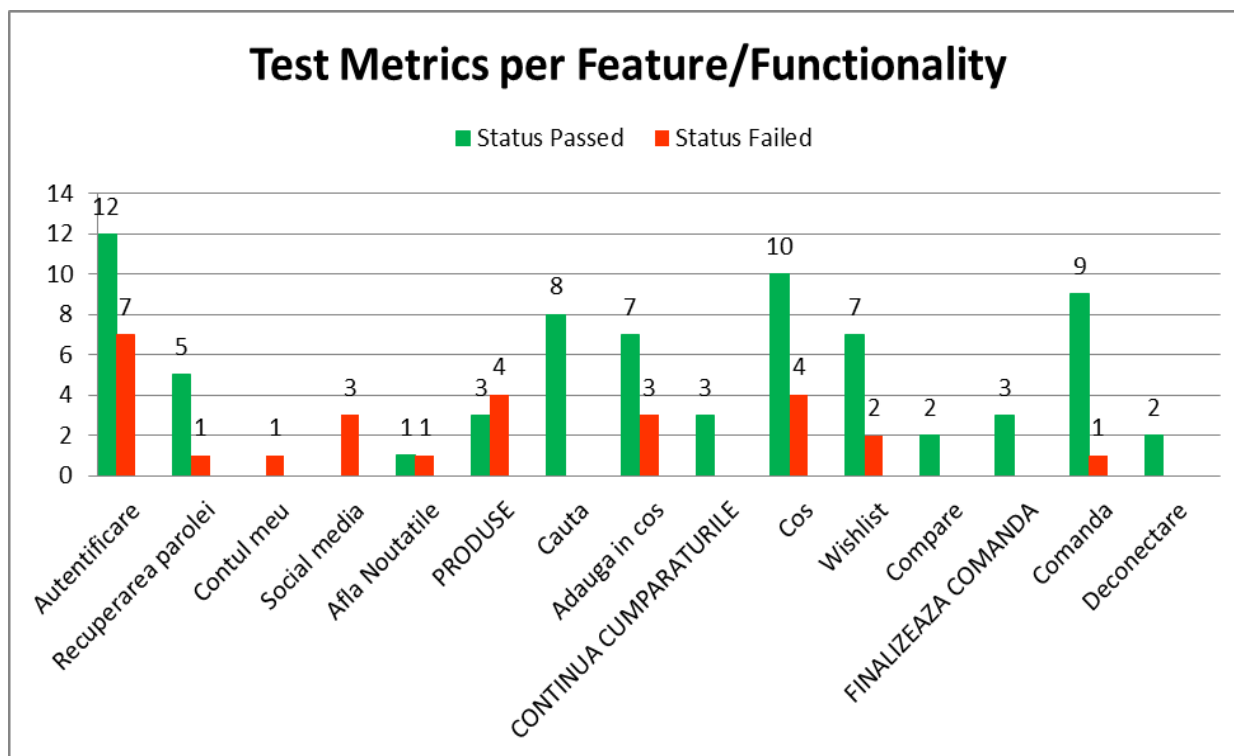
Test cases	Number	Rate %
Designed	101	n/a
Executed	101	100
Passed	74	73.27
Failed	27	26.73



11. Test Metrics per Feature/Functionality

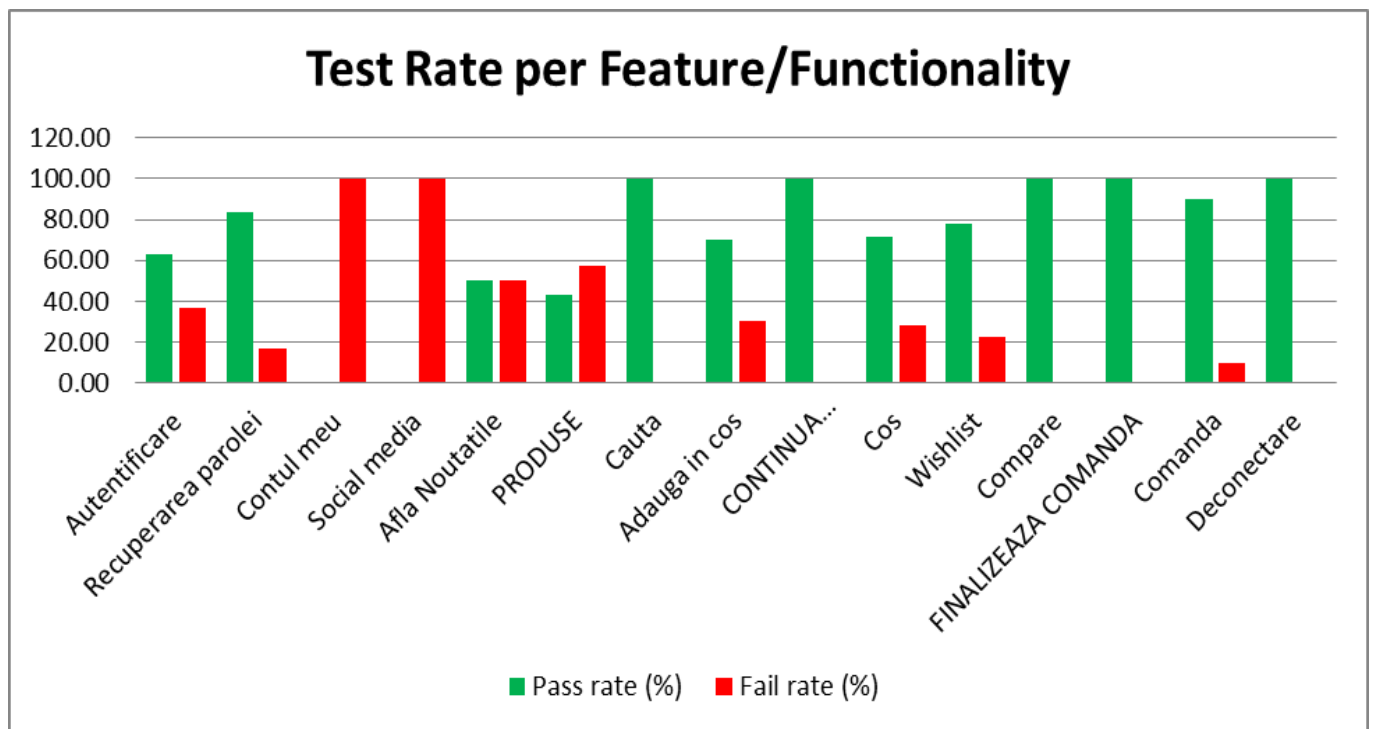
Test overview	Status			
	Passed	Failed	Blocked	Not run
Autentificare	12	7	0	0
Recuperarea parolei	5	1	0	0
Contul meu	0	1	0	0
Social media	0	3	0	0
Afla Noutatile	1	1	0	0
PRODUSE	3	4	0	0
Cauta	8	0	0	0
Adauga in cos	7	3	0	0
CONTINUA CUMPARATURILE	3	0	0	0
Cos	10	4	0	0
Wishlist	7	2	0	0

Compare	2	0	0	0
FINALIZEAZA COMANDA	3	0	0	0
Comanda	9	1	0	0
Deconectare	2	0	0	0



12. Test Rate per Feature/Functionality

	Pass rate (%)	Passed	Fail rate (%)	Failed
Autentificare	63.16	12	36.84	7
Recuperarea parolei	83.33	5	16.67	1
Contul meu	0	0	100	1
Social media	0	0	100	3
Afla Noutatile	50	1	50	1
PRODUSE	42.86	3	57.14	4
Cauta	100	8	0	0
Adauga in cos	70	7	30	3
CONTINUA CUMPARATURILE	100	3	0	0
Cos	71.43	10	28.57	4
Wishlist	77.78	7	22.22	2
Compare	100	2	0	0
FINALIZEAZA COMANDA	100	3	0	0
Comanda	90	9	10	1
Deconectare	100	2	0	0



13. Exploratory Sessions Results

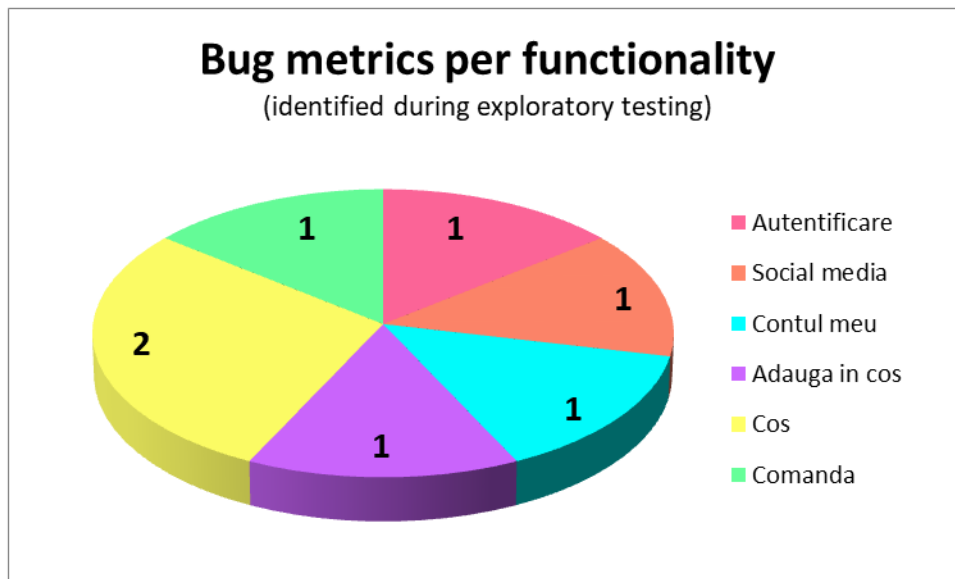
Number of exploratory sessions: 2 sessions lasting 1.5 hour each.

During exploratory testing, the tester made spontaneous decisions on what to test, how to test, and identified areas needing deeper investigation. This flexible approach improved the tester's understanding of the website's functionality, including its behavior and limitations. This knowledge was crucial for guiding testing strategies and prioritizing test cases.

Main features/functionalities explored during exploratory sessions:

- Autentificare
- Social media
- Contul meu
- Adauga in cos
- Cos
- Comanda

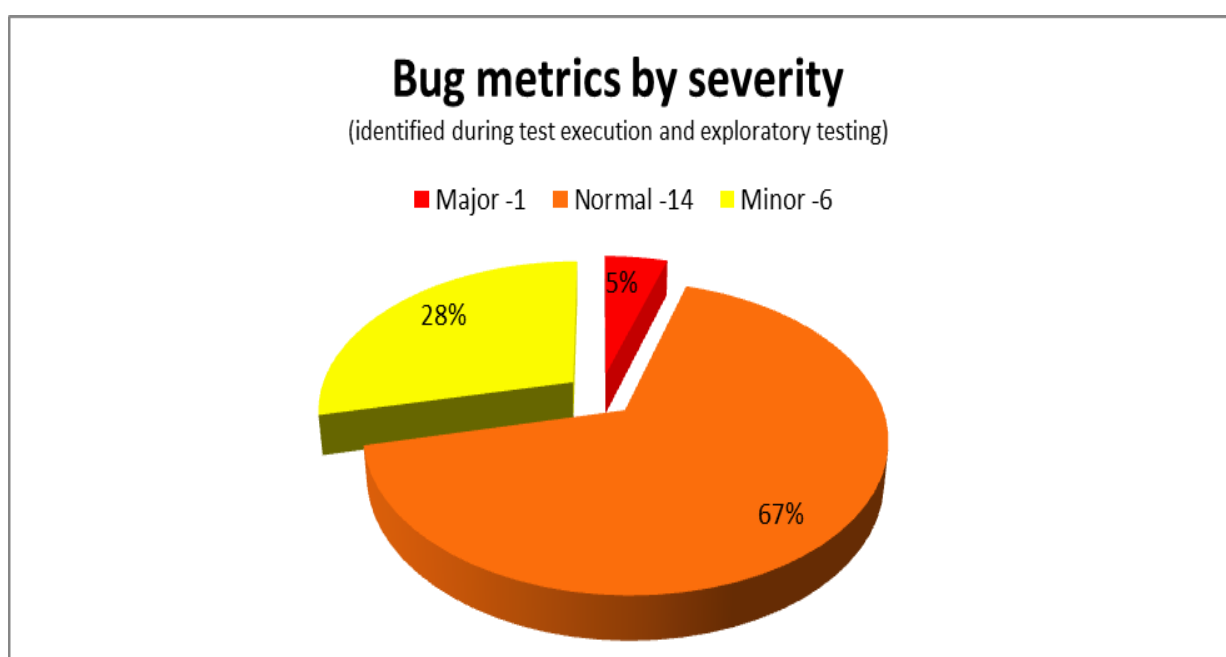
FEATURE	No. of bugs
Autentificare	1
Social media	1
Contul meu	1
Adauga in cos	1
Cos	1
Comanda	1



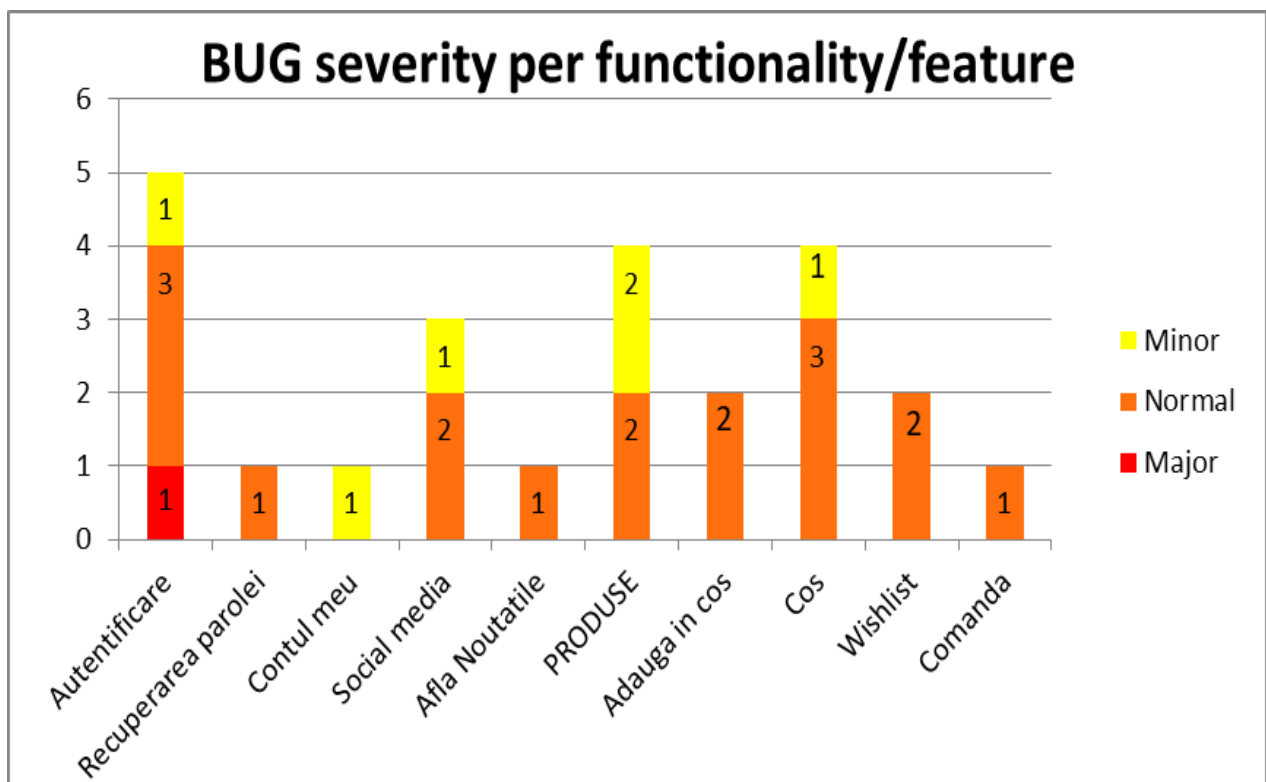
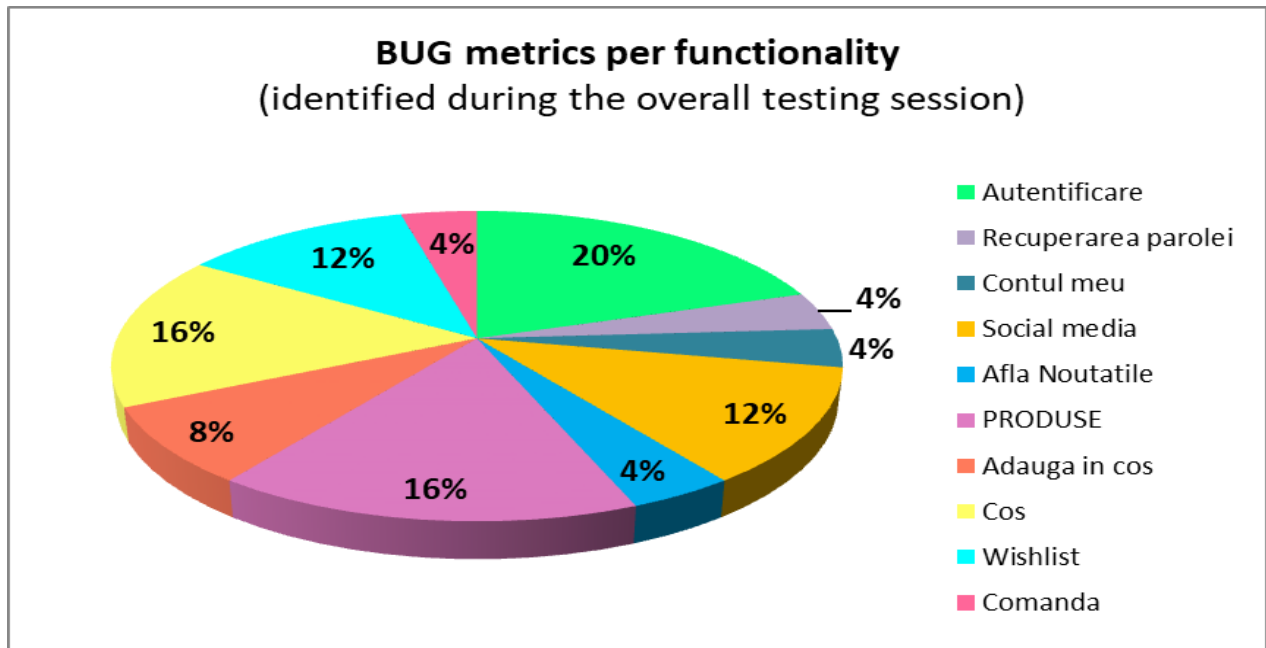
14. Defect Metrics

A total of 21 bugs were identified during the execution of tests and exploratory sessions. It's worth noting that two of these are actually improvements rather than bugs. Some of the identified bugs replicate across multiple functionalities, contributing to a higher total count than initially logged. This occurrence emphasizes that certain issues have a broader impact, affecting various parts of the software beyond their initially identified context.

The majority of the identified bugs have a normal severity level, followed by those with minor severity. This distribution indicates that most of the issues carry a standard degree of impact on the system.



The email validation issue initially observed in the [Afla Noutatile] feature extends its impact to the [Recuperarea parolei] functionality. Similarly, the challenges identified within [Social media][Facebook] are mirrored in the [Youtube] counterpart. Furthermore, the defects associated with the [Adauga in cos] feature, specifically pertaining to the absence of a cart quantity limit and the ability to add a quantity exceeding the available stock, also manifest in the [Cos] functionality. This pattern of replication underscores the need for a comprehensive assessment and remediation across interconnected features to ensure a cohesive and robust system.



Bug ID	Severity	Summary
0055237	major	[Autentificare] The user can create an account with an already registered email address
0055238	normal	[Autentificare] Email and password are not required for user registration
0055276	normal	[Autentificare] The user is able to register using invalid data in mandatory input fields
0055264	normal	[Autentificare] The user is unable to create an account using a Facebook account
0055235	normal	[Adauga in cos] The user can add to cart a quantity that exceeds the available stock
0055271	normal	[Adauga in cos] The user lacks a reasonable quantity limit for adding items to the cart
0055369	normal	[Cos] Decimal values with a dot separator are mishandled during quantity updates
0055203	normal	[Wishlist] The user is unable to send a wishlist via email
0055199	normal	[Wishlist] The user is unable to send a wishlist via email
0055270	normal	[PRODUSE] Not all displayed products are correctly sorted by price
0055292	normal	[PRODUSE] Add to cart button is not available for a product in stock
0055214	normal	[PRODUSE] The 'Indisponibil' filter is not filtering properly only the out-of-stock products
0055268	normal	[Comanda] The email address is not required for the bank wire payment option
0055444	normal	[Social media][Facebook] The user is not redirected to the Facebook page upon clicking the button
0055236	normal	[Afla Noutatile] The user can subscribe to the newsletter using an invalid email address
0055195	minor	[Contul meu] [UI] The user's name is displayed incorrectly after authentication
0055269	minor	[Cos][UI] An incorrect message is displayed in the empty cart
0055320	minor	[PRODUSE][UI] The information regarding stock availability is not grammatically correct
0055319	minor	[PRODUSE][UI] One available view mode has a grammatically incorrect label

0055282	improvement minor	[Autenticare][UI] The user encounters a lack of clear differentiation in the registration form
0055445	improvement minor	[Social media] The social media buttons in the sticky sidebar are obstructed by other page elements

15. Test Coverage

Determining the precise level of test coverage proved challenging in the absence of explicit requirements. However, the testing focus was strategically directed towards scrutinizing the most crucial functionalities that underpin the user flow during the order placement process. Despite the absence of detailed specifications, the thorough testing of these key features ensures a solid and effective coverage. This approach not only mitigates uncertainties but also establishes confidence that the fundamental elements contributing to a smooth user experience have been thoroughly tested. While the challenge of undefined requirements persists, the emphasis on essential functionalities ensures a robust test coverage foundation.

In essence, despite the inherent difficulty of defining coverage without clear requirements, the meticulous testing of vital functionalities crucial to the user journey in placing an order instills confidence in the overall robustness of the system.

It's crucial to note that while functional testing has been a priority, there is a notable absence of tests addressing non-functional aspects. The current coverage predominantly emphasizes user flow, but additional tests assessing performance, security, and other non-functional dimensions are warranted to achieve a more comprehensive coverage.

16. Conclusion and Recommendations

The smoke testing session encompassed 10 test cases, all of which passed successfully. However, during the broader test execution, 21 bugs have been identified and logged, but some of these are reproducing in other functionalities or are impacting other functionalities, revealing a significant number of issues within the system.

One notable concern revolves around the absence of mandatory email field validation during account creation and order placement, especially when opting for bank wire payment without providing an email, despite payment details being communicated through email. Additionally, the ability for a user to create a new account using an already registered email address is particularly worrisome. These issues collectively pose potential challenges to communication and account integrity, warranting attention and corrective measures for a more secure and streamlined user experience.

In summary, the test report highlights challenges in defining coverage due to the absence of explicit requirements. Despite this, testing efforts strategically targeted key functionalities crucial for user experience during order placement, instilling confidence in the system's core

robustness. However, there is a notable gap in non-functional testing, with limited scope in the current coverage. Recognizing this, future iterations should focus on performance, security, and non-functional aspects for a more comprehensive evaluation. Despite these challenges, the current testing approach lays a solid foundation, emphasizing critical functionalities and providing insights for refining strategies in subsequent iterations.

Despite the identified issues, it's noteworthy that the overall user experience remains positive. The site is intuitive, allowing users to navigate seamlessly and fulfill their intended purposes with ease. While there are areas for improvement, the foundational user experience is commendable, and the site successfully facilitates user interactions.

Recommendations:

As a website owner or developer, paying meticulous attention to functional and non-functional aspects is crucial. Implementing mandatory email field validation during account creation and for bank wire payments enhances data accuracy and user communication. Addressing concerns related to users creating accounts with existing email addresses is vital for maintaining account integrity. Prioritizing bug fixing can fortify the overall user experience and instill trust among users.