

Test types

Amazon.com: Online Shopping Software



Holembiovska Natalia

Amazon.com is an American multinational technology company focused on e-commerce, cloud computing, digital streaming, and artificial intelligence.

Amazon.com is primarily a retail site with a sales revenue model. Amazon takes a small percentage of the sale price of each item that is sold through its website while also allowing companies to advertise their products by paying to be listed as featured products.



Year	Revenue in mil. USD\$	Net income in mil. USD\$	Total Assets in mil. USD\$	Employees
2020	386,064	21,331	321,195	1,298,000

As of 2021, Amazon.com is the world's largest Internet company, online marketplace one of the world's most valuable companies, and as of 2021, the world's most valuable brand

Plan of testing

1. Smoke testing
2. Functional testing
3. Non-functional testing
 - 3.1 UI testing
 - 3.2 Performance testing
 - 3.3 Load testing
 - 3.4 Stress testing
 - 3.5 Localization testing
 - 3.6 Compatibility testing
 - 3.7 Security testing
4. Confirmation and Regression testing



Smoke testing

Task: Verify the main features of the amazon.com website

Testing procedure:

1. Open the main page <https://www.amazon.com>
2. Sign up on the website
3. Sign in with valid credentials
4. Search the goods
5. Select the goods
6. Add goods to cart
7. Pay for the purchase
8. Sign out

Summary: The build is accepted.

PASS

Sign-In

nata.holembiovaska@gmail.com [Change](#)

Password

[Forgot your password?](#)

.....

Sign-In

☐ Keep me signed in. [Details](#) ▾

The screenshot displays the Amazon website interface. At the top, the Amazon logo and navigation links are visible. The main content area shows search results for "headphones". The first result is the "Razer Seiren Mini USB Streaming Microphone" priced at \$49.99. Below it, there are more search results including "Audio-Technica ATH-AD700X Audiophile Open-Air Headphones Black" and "bopmen T3 Wired Over Ear Headphones". On the right side, a "Shopping Cart" is visible, containing the Razer Seiren Mini microphone and the bopmen T3 headphones. The cart items are listed with their prices and options to delete, save for later, or compare with similar items.

Functional testing

Task: Verify that the products of category sort in the price range according to the specified criteria.

Testing procedure:

1. Verify that products of category (e.g. "Electronics") from fixed price range (e.g. "Under \$25" link) sort by:

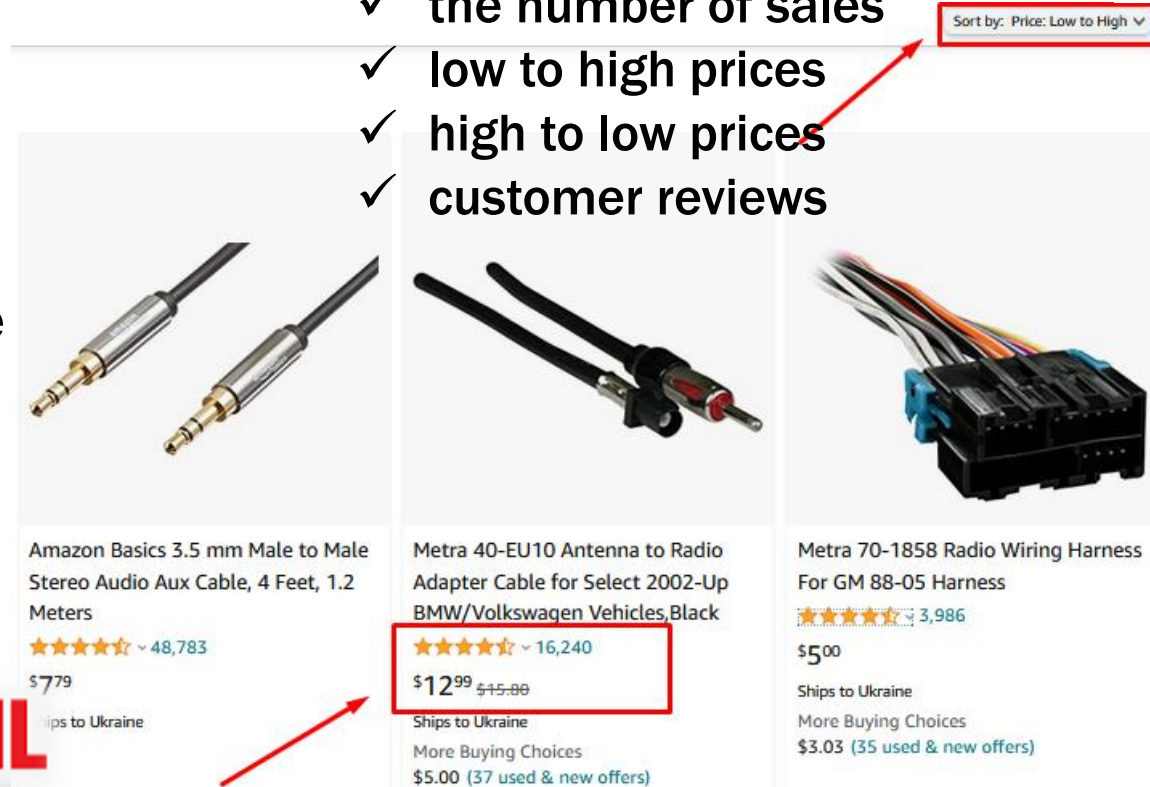
- ✓ the number of sales
- ✓ low to high prices
- ✓ high to low prices
- ✓ customer reviews

Expected result: The products are sorted in the rang price on the page after selecting specified sorting criteria

Defect: The products are not sorted in the rang price after selecting "Price: low to high prices" criteria

2. Verify that products of category (e.g. "Electronics") from entered price range (e.g. from \$5 to \$10) sort by:

- ✓ the number of sales
- ✓ low to high prices
- ✓ high to low prices
- ✓ customer reviews



FAIL

Non-functional testing

UI testing



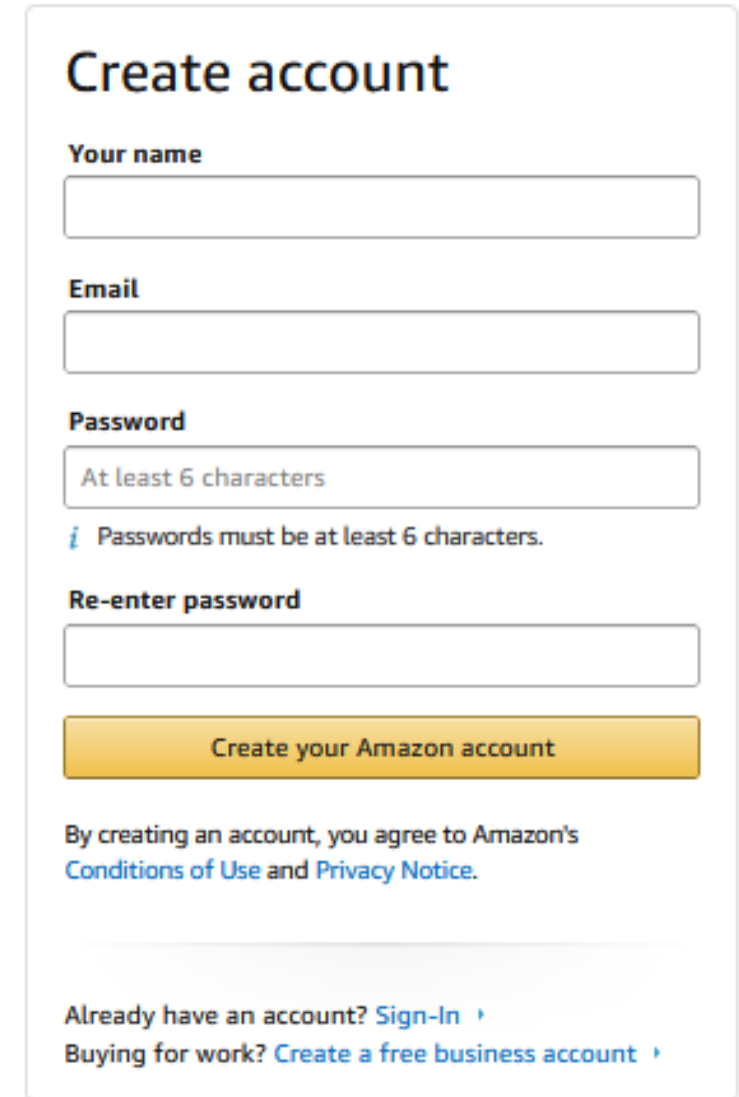
Task: Verify UI of the “Create account” form

Testing procedure:

Check list

1. Verify that all required elements are present on the page (corresponds to mock-up).
2. Verify alignment of the elements.
3. Verify spelling.
4. Verify fonts, sizes and colors of the elements.
5. Verify cursor change.
6. Verify the reaction of the active elements.
7. Verify that all UI controls are visible on the screen after page resizing.

PASS



The screenshot shows the Amazon 'Create account' form. It includes input fields for 'Your name', 'Email', and 'Password'. The 'Password' field has a placeholder text 'At least 6 characters' and a feedback message 'Passwords must be at least 6 characters.' Below the password field is a 'Re-enter password' field. A yellow button labeled 'Create your Amazon account' is positioned below the form fields. At the bottom, there is a link to 'Conditions of Use and Privacy Notice' and two links: 'Already have an account? Sign-In' and 'Buying for work? Create a free business account'.

Create account

Your name

Email

Password

At least 6 characters

Passwords must be at least 6 characters.

Re-enter password

Create your Amazon account

By creating an account, you agree to Amazon's [Conditions of Use and Privacy Notice](#).

Already have an account? [Sign-In](#)

Buying for work? [Create a free business account](#)

Performance testing



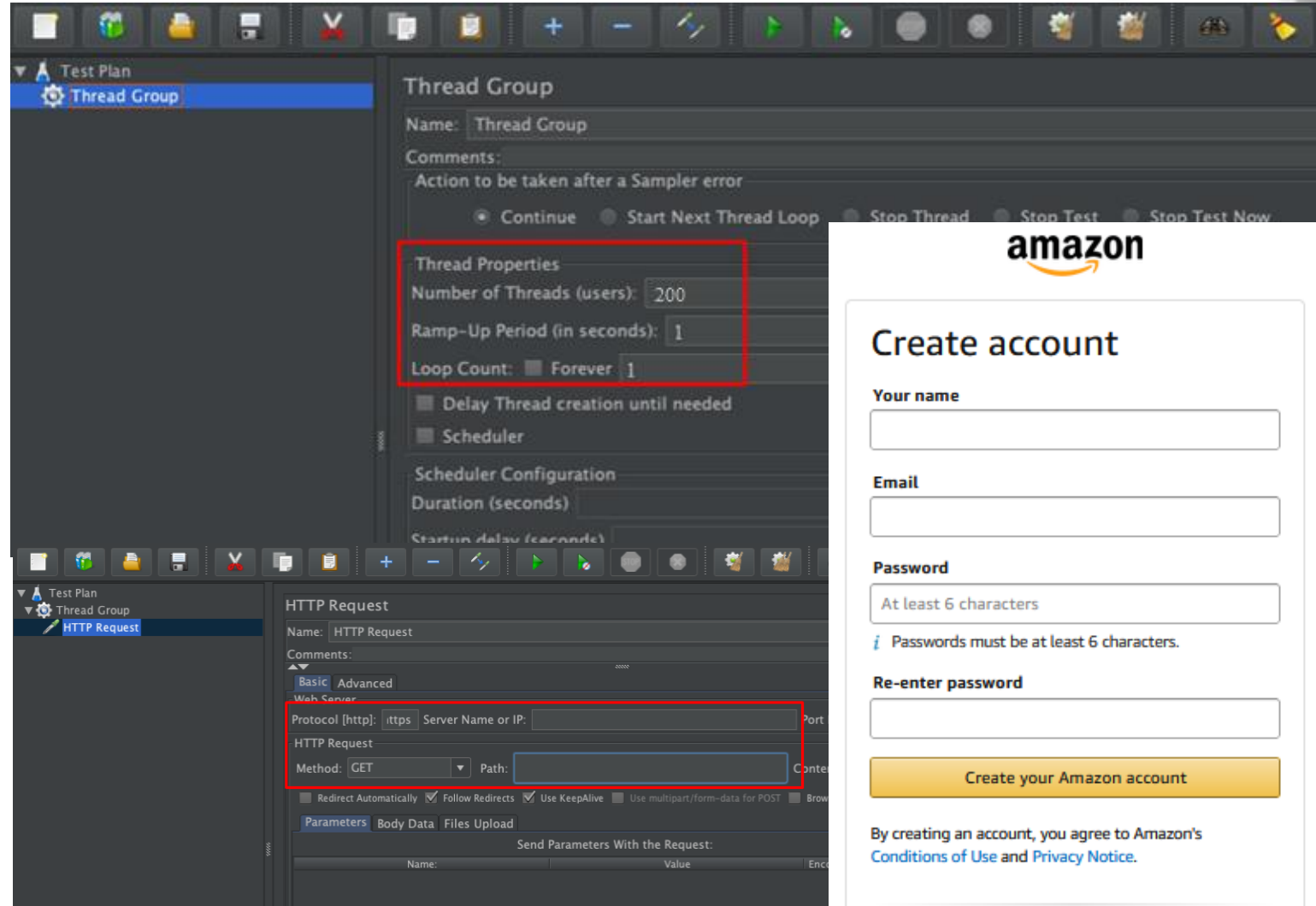
Task: Verify that server can load “Create account” page for 200 simultaneous users in up to 1 sec

Testing procedure:

1. Specify the load time for “Create account” page for 200 concurrent users.
2. Check that time doesn’t exceed 1 sec.

Expected result: The “Create account” page is loaded from server for more than 200 simultaneous users in up to 1 sec.

PASS



Load testing



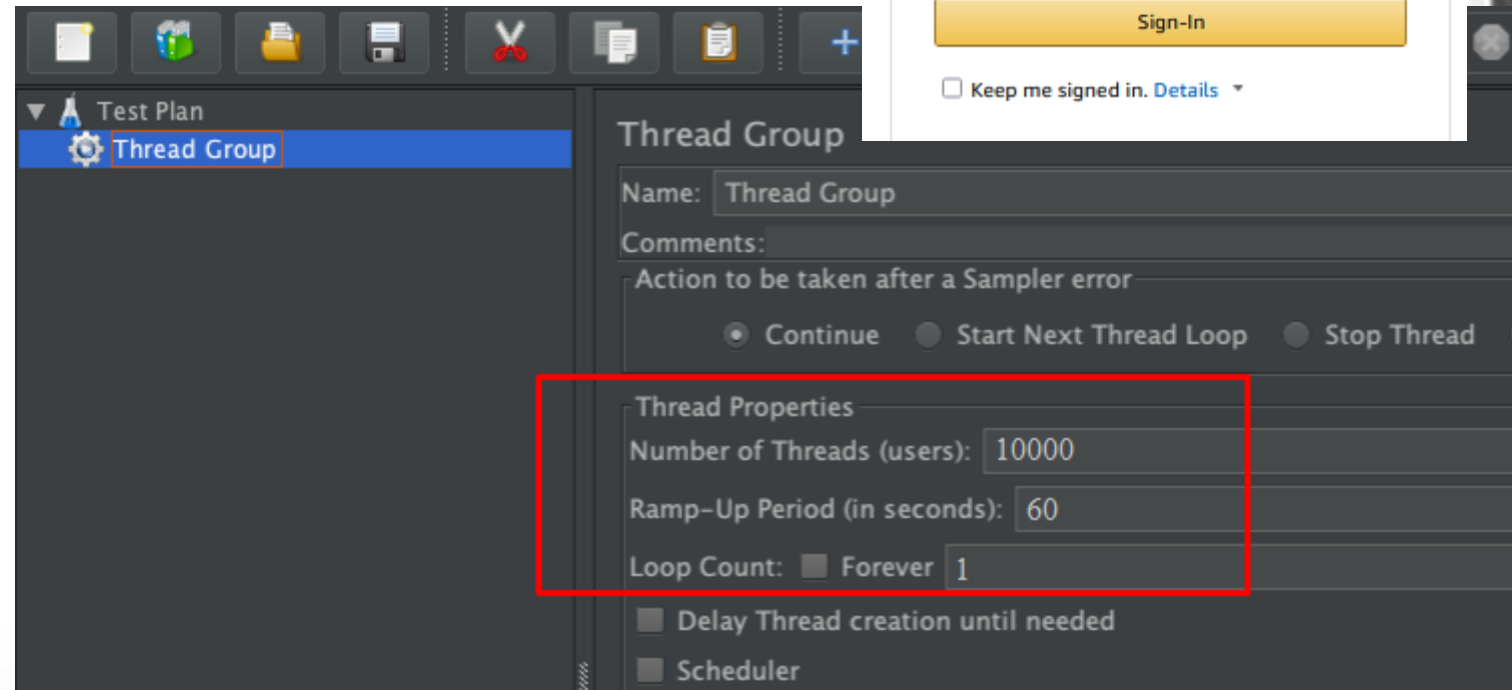
Task: Verify that server allows up to 12 000 connections to the “Sign in” page simultaneously.

Testing Procedure:

1. Emulate 10 000 logging requests to server and measure the time.
2. Emulate 11 000 logging requests to server and measure the time.
3. Emulate 12 000 logging requests to server and measure the time.

Expected result: The server is able to respond correctly on the simultaneously login requests of 12 000 users.

PASS

A screenshot of the Amazon Sign-In page. It features a 'Sign-In' heading, a 'Switch accounts' link, a user profile for 'Natalia' with email 'nata.holembiovska@gmail.com', a 'Password' field, a 'Forgot your password?' link, a yellow 'Sign-In' button, and a 'Keep me signed in' checkbox with a 'Details' link.

Stress testing

Task: Verify that server can connect to the “Sign in” page more than 12 000 users simultaneously

Testing Procedure:

1. Emulate 12 001 logging requests to server and check the server behavior.
2. Emulate 12 100 logging requests to server and check the server behavior.
3. Emulate 12 200 logging requests to server and check the server behavior.

Expected result: The server is not crash due to overload. The error message from server is displayed on the page.

Defect: User data for logging is lost on the server after 12 0001 simultaneous requests.

FAIL



Localization testing

Task: Verify that main page is translated into German

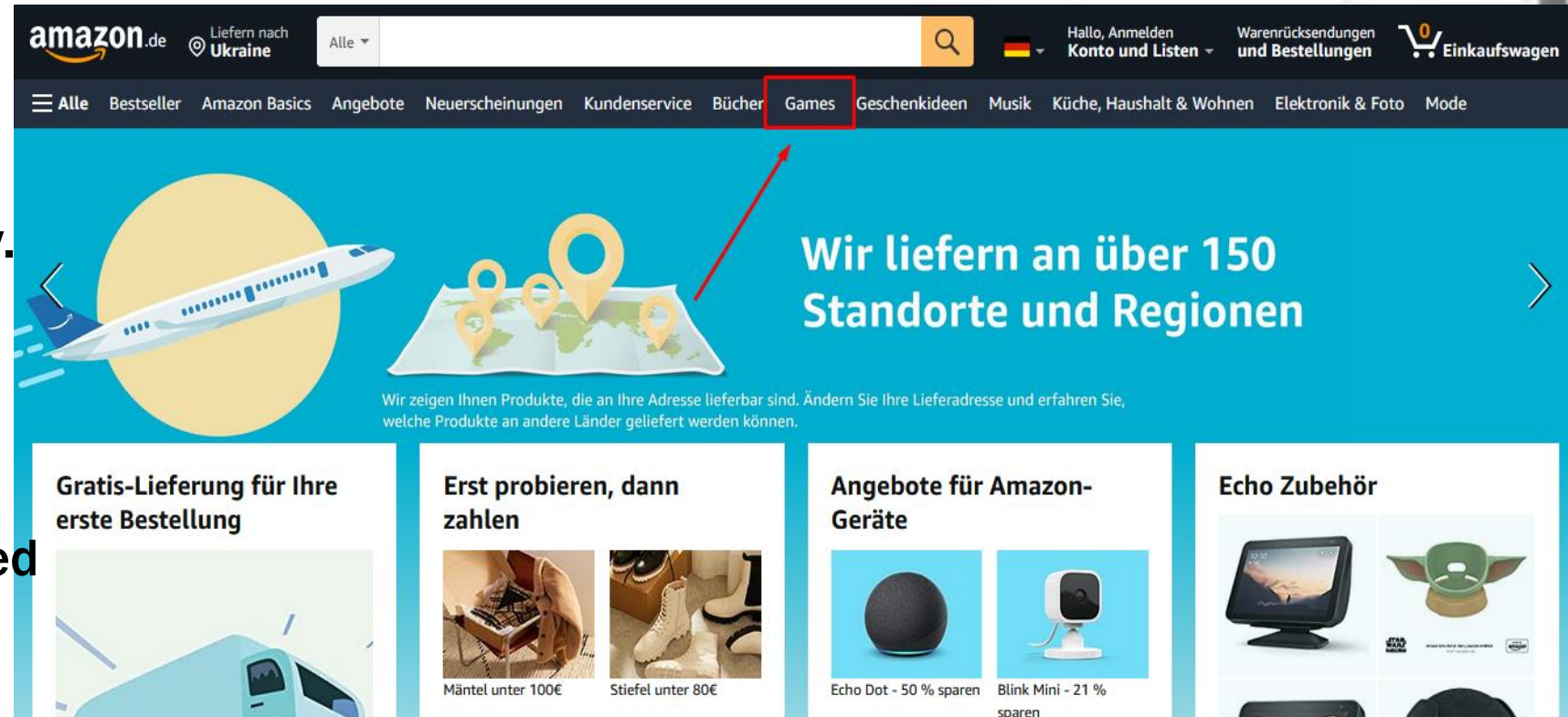
Testing procedure:

1. Verify that site content is translated into German when selecting Germany as preferred country.
2. Verify that names of interface elements are translated into German.

Expected result: The content and names of interface elements are displayed into German after selecting Germany as preferred country.

Defect: The "Game" category of the main menu is not translated into German after selecting Germany as preferred country.

FAIL





Compatibility testing



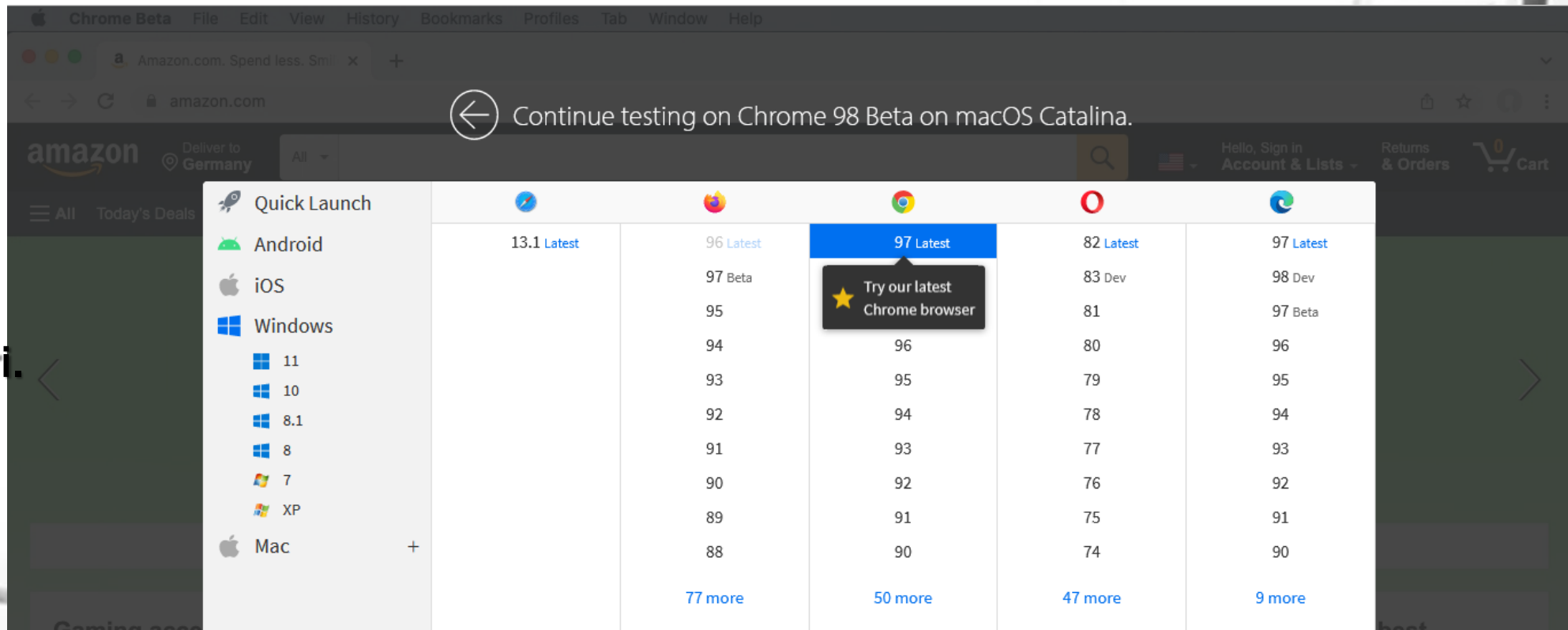
Task: Verify that site is cross-browser.

Testing Procedure:

Use BrowserStack for verification the functionality and UI of the site in the browsers: Google Chrome (v.90-97) , Mozilla Firefox (v.90-97), Opera (v.75-82) Microsoft Edge (v.90-97), Safari (v.13.1) .

Expected result: The functionality is worked and UI is rendered correctly on the Google Chrome, Mozilla Firefox, Microsoft Edge, Safari.

PASS



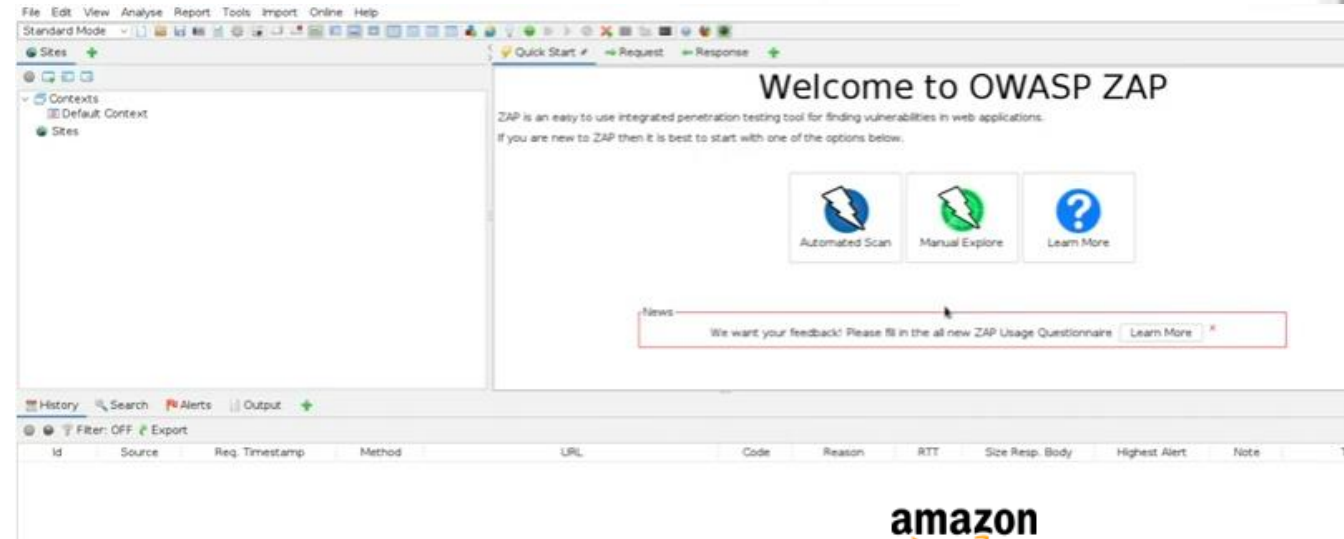
Security testing

Task: Verify that OTP can use one time

Testing procedure:

1. Verify that user can't use OTP more when creating a new account
2. Verify that user can't use OTP more when recovering password.

Expected result: The OTP is available one one time



Broken Authentication
& Session Management Flaws

PASS



amazon

Verification required

To continue, complete this verification step. We've sent a One Time Password (OTP) to the email `nata.holembiovaska@gmail.com`. Please enter it below.

Enter OTP

! Invalid OTP. Please check your code and try again.

[Continue](#)

[Resend OTP](#)

[I need more help](#)

Confirmation testing

Task: Verify test cases with "Fail" status.

Function testing: verify that products are sorted in the rang price

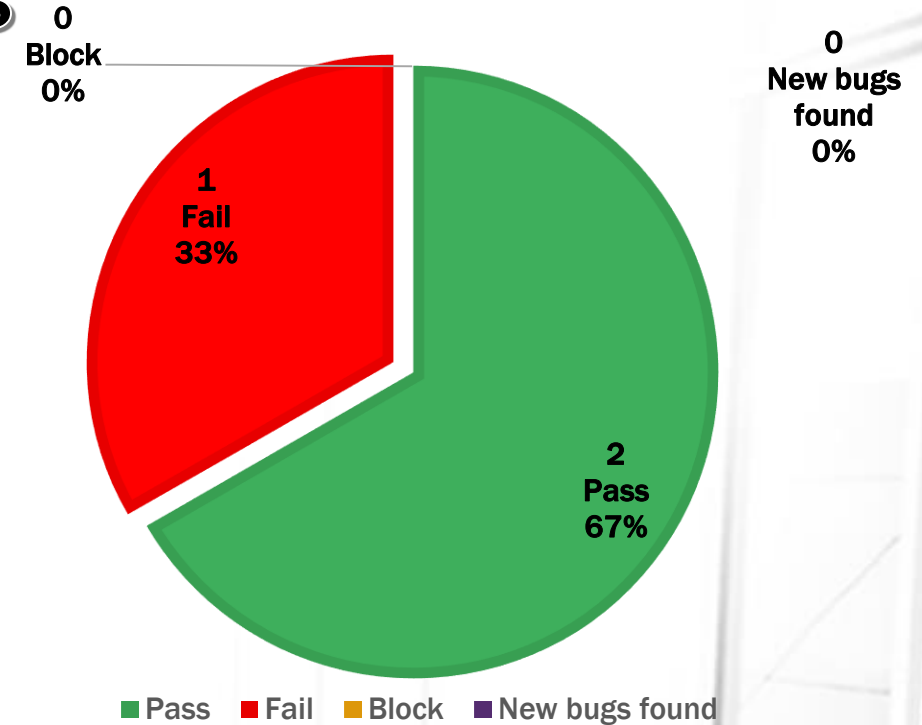
Stress testing: verify that server is recovery

Localization testing: verify that The "Game" category of the main menu is not translated into German

Expected result: Test cases with "Fail" status are verify and changed on the "Pass". Bugs are fixed on the site

Actual result: Test case which verifies localization is failed.

FAIL



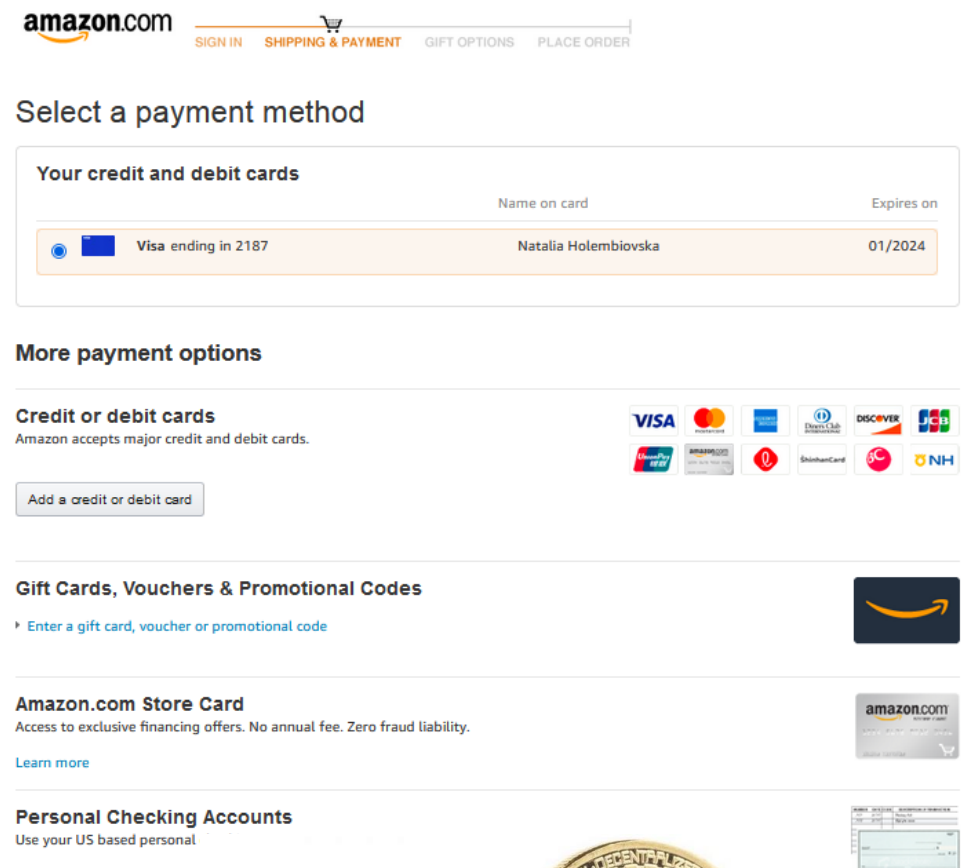
Regression testing

Added the new feature: Cryptocurrency payment method

Testing procedure:

1. Verify the test cases with "High" priorities for creating a new user.
2. Verify the test cases with "High" priorities for logging user.
3. Verify all test cases with "High" priorities that add product to cart.
4. Verify all test cases with "High" and "Medium" priorities that cover the "Payment method" requirement.
5. Verify all test cases with "High" and "Medium" priorities that cover the "Place order" requirement.

PASS



The screenshot shows the Amazon payment method selection interface. At the top, the Amazon logo and navigation links (SIGN IN, SHIPPING & PAYMENT, GIFT OPTIONS, PLACE ORDER) are visible. The main heading is "Select a payment method". Below this, there's a section for "Your credit and debit cards" with a table showing a Visa card ending in 2187, named Natalia Holembiovska, expiring on 01/2024. Below this, there's a section for "More payment options" which includes "Credit or debit cards" (listing various card logos like Visa, Mastercard, etc.) and a button to "Add a credit or debit card". There's also a section for "Gift Cards, Vouchers & Promotional Codes" with a link to "Enter a gift card, voucher or promotional code". Below that is the "Amazon.com Store Card" section, and at the bottom is the "Personal Checking Accounts" section.

amazon



Thank
you for your

attention

You are
amazing

