

“Smoke testing after plugin update”

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07.01.2023

-

Software Tester

-

SDA Academy

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1. Introduction

The main goal of the Project is to test web application, such as eCommerce web site, after updating plugin to confirm that all the functionalities work as expected and provide report. For the example was selected gadgets accessories e-shop – www.tarv.ee, created using WordPress CMS, which has plugins installed and their update functionality. The site is on Estonian language, and all the labels and buttons have translations to English in that report to better understand modules and functions.

TARV.EE

Minu Konto Väljalogimine

Q Otsi tooteid...

MOBIIL TELEFONIDE TARVIKUD

NUTIKELLADE TARVIKUD

0.00 € 0 artiklit

iPhone mudel

- ☐ iPhone 11 (1)
- ☐ iPhone 11 Pro (1)
- ☐ iPhone 11 Pro Max (1)
- ☐ iPhone 12 (6)
- ☐ iPhone 12 Mini (3)
- ☐ iPhone 12 Pro (5)
- ☐ iPhone 12 Pro Max (4)
- ☐ iPhone 13 (6)
- ☐ iPhone 13 Mini (4)
- ☐ iPhone 13 Pro (6)

Näita veel 6

Tooted

Järjesta populaarsuse alusel

Näitan 1–18 tulemust 143-st

1 2 3 4 ... 6 7 8 ▶



Põrutuskindel armor matt ümbris
iPhone 12

7.99 €

Lisa korvi



Ekraanikaitse iPhone 11

4.99 €

Lisa korvi



Ekraanikaitse Apple Watch Series
1/2/3 42 mm

2.99 €

Lisa korvi

Samsung Galaxy mudel

- ☐ A03/A03s (1)
- ☐ A13 (1)
- ☐ A23 (1)
- ☐ A32 4G (1)
- ☐ A32 5G (1)
- ☐ A33 5G (3)
- ☐ A42 5G (1)
- ☐ A52/A52 5G/A52s 5G (4)
- ☐ A53 5G (4)
- ☐ A72/A72 5G (4)

Näita veel 12



Ekraanikaitse Apple Watch Ultra

2.99 €



Ekraanikaitse Samsung Galaxy S22
Plus

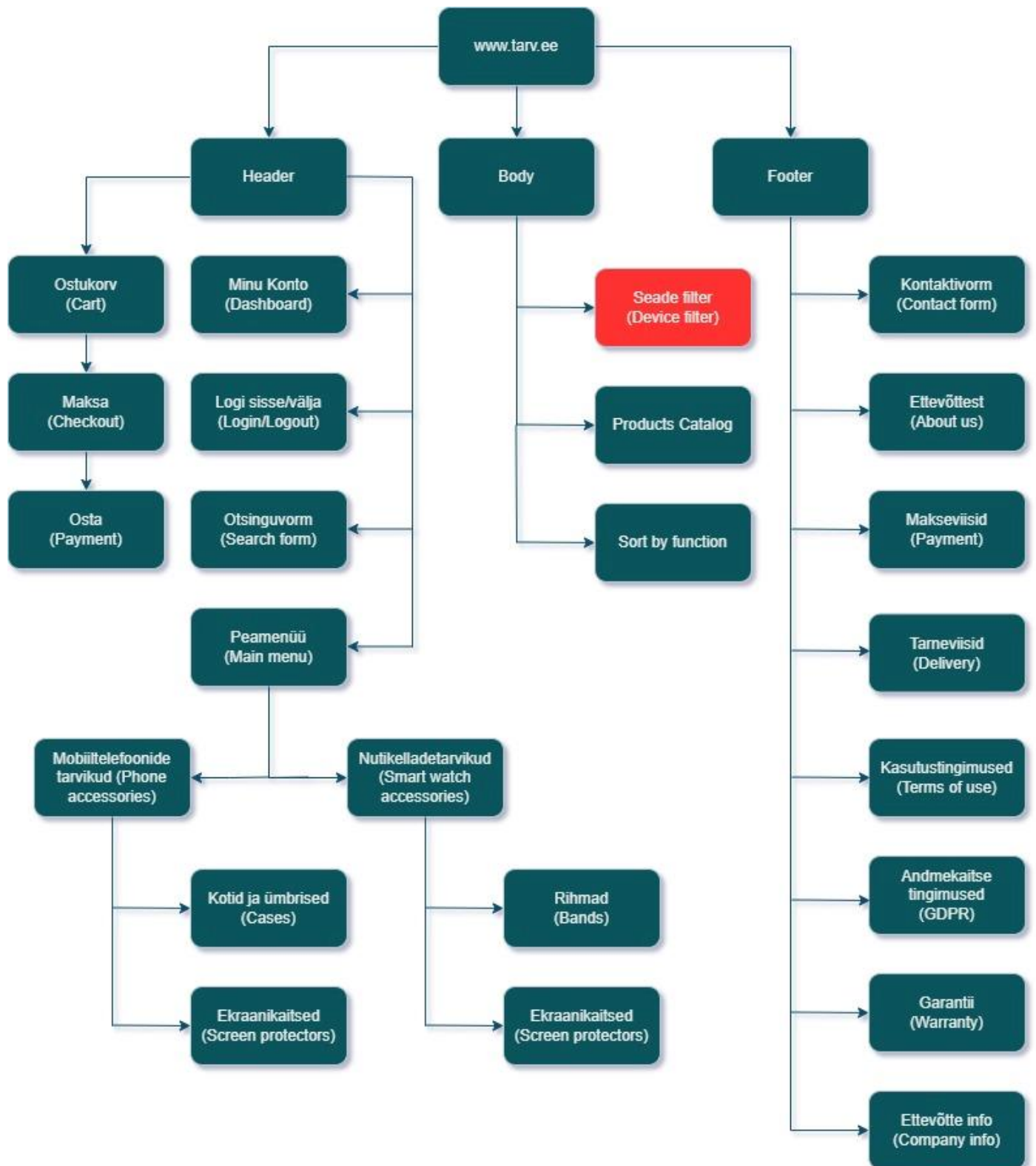
4.99 €



Ekraanikaitse Samsung Galaxy S22

4.99 €

2. WEB Site structure



3. WooCommerce Plugin update

At the backend of the application, we can see that the main plugin “WooCommerce” needs to be updated

The screenshot shows the WordPress dashboard for the website www.tarv.ee. The left sidebar contains various menu items, with 'Pluginid' (Plugins) highlighted and showing a red notification badge with the number '1'. The main content area displays a list of installed plugins. The 'WooCommerce' plugin is circled in red. Below it, a yellow banner with a red circular arrow icon states: 'WooCommerce uus versioon on saadaval. [Vaata versiooni 7.2.2 üksikasju](#) või [uuenda automaatselt](#).' (WooCommerce new version is available. [View details of version 7.2.2](#) or [update automatically](#).)

| Plugin Name | Version | Update Status | Actions |
|---|---------|---------------|--|
| LightStart - Maintenance Mode, Coming Soon and Landing Page Builder | | Seated | Settings Lülita välja Translate Rollback to v2.6.1 |
| Loco Translate | | Seated | Lülita välja Translate |
| LoginPress - Customizing the WordPress Login Screen. | | Seated | Settings Customize Opt Out Lülita välja Upgrade Pro Translate |
| Omniva tarnemeetodid | | Seated | Lülita välja Translate |
| OptinMonster | | Seated | Upgrade to Pro Campaigns Settings Lülita välja Translate |
| PDF Invoices & Packing Slips for WooCommerce | | Seated | Lülita välja Translate |
| reCaptcha by BestWebSoft | | Seated | Settings Lülita välja Translate |
| Sequential Order Numbers for WooCommerce | | Seated | Settings Support Review Premium Upgrade Lülita välja Translate |
| Swedbank Payment Initiation | | Seated | Lülita välja Translate |
| TrustPulse API | | Seated | Settings Lülita välja Translate |
| Widget Options | | Seated | Lülita välja Translate Settings Upgrade |
| WooCommerce | | Seated | Lülita välja Translate |
| WooCommerce uus versioon on saadaval. Vaata versiooni 7.2.2 üksikasju või uuenda automaatselt . | | | |
| WP Mail SMTP | | Seated | Get WP Mail SMTP Pro Settings Docs Lülita välja Translate |
| WPForms Lite | | Seated | Get WPForms Pro Settings Docs Lülita välja Translate |
| Plugin | | Seated | |

WooCommerce Plugin

WooCommerce is the world's most popular open-source eCommerce solution. Plugin adds functionality to creating e-shop to the simple blog WordPress CMS (content management system). Updates are needed because of security. Every update should be installed as soon as possible.

NUTIKELLADE TARVIKUD ▾

4.99 € 1 artikkel

🛒

Tooted

Järjesta populaarsuse alusel ▾

Näitan 1–18 tulemust 143-st

1 2 3 4 ... 6 7 8 ▶



Põrutuskindel armor matt ümbris
iPhone 12

7.99 €

Lisa korvi



Ekraanikaitse iPhone 11

4.99 €

Lisa korvi



Ekraanikaitse Apple Watch Series
1/2/3 42 mm

2.99 €

Lisa korvi

Osta

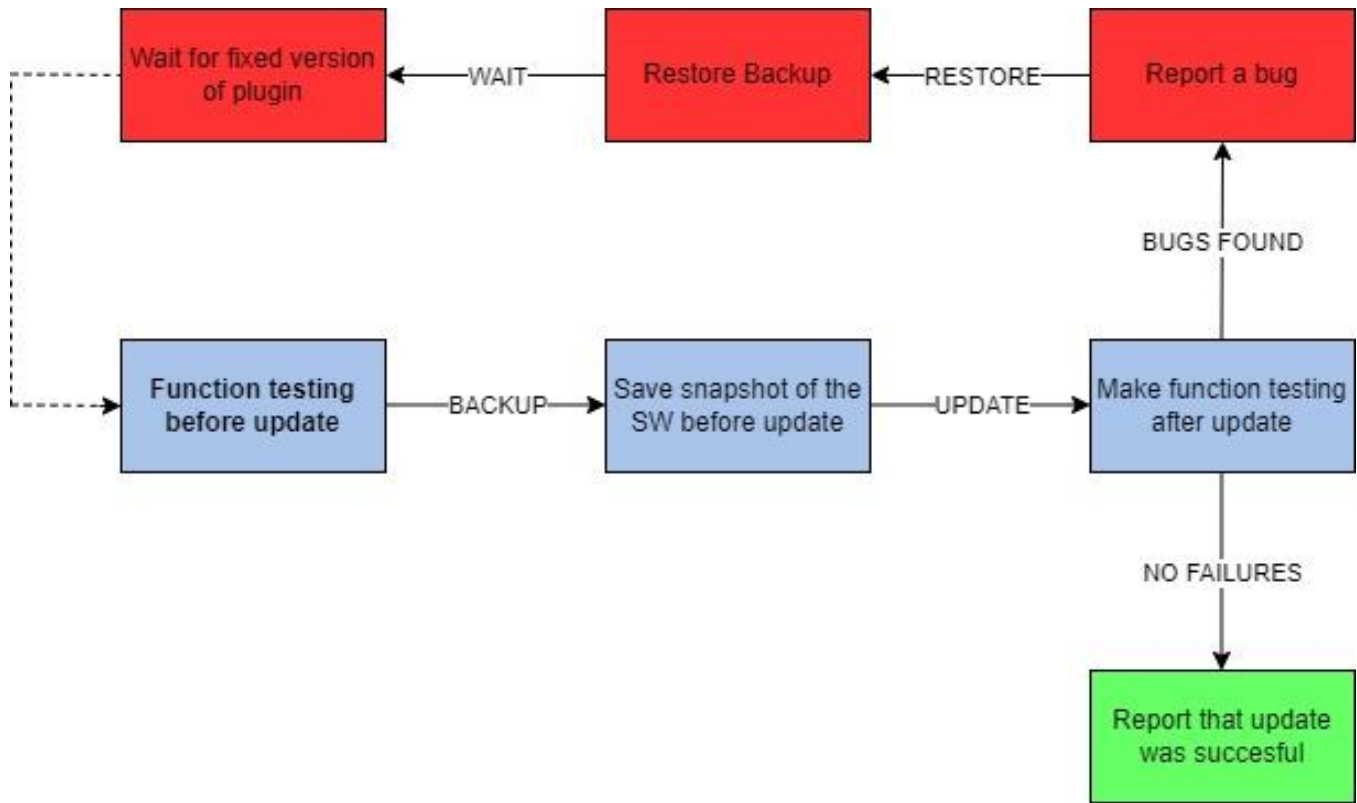
🔔 Oled juba klient? [Sisse logimiseks klikki siia](#)

Arvelduse andmed

| | |
|-----------------------------|----------------------|
| Eesnimi * | Perenimi * |
| <input type="text"/> | <input type="text"/> |
| Ettevõtte nimi (valikuline) | |
| <input type="text"/> | |
| Riik / piirkond * | |
| Eesti | |
| Tänav ja majanumber * | |
| Tänavanimi ja majanumber | |
| <input type="text"/> | |
| Sihtnumber * | |
| <input type="text"/> | |
| Linn/Alev/Küla * | |
| <input type="text"/> | |
| Telefon * | |
| <input type="text"/> | |
| E-posti aadress * | |
| <input type="text"/> | |

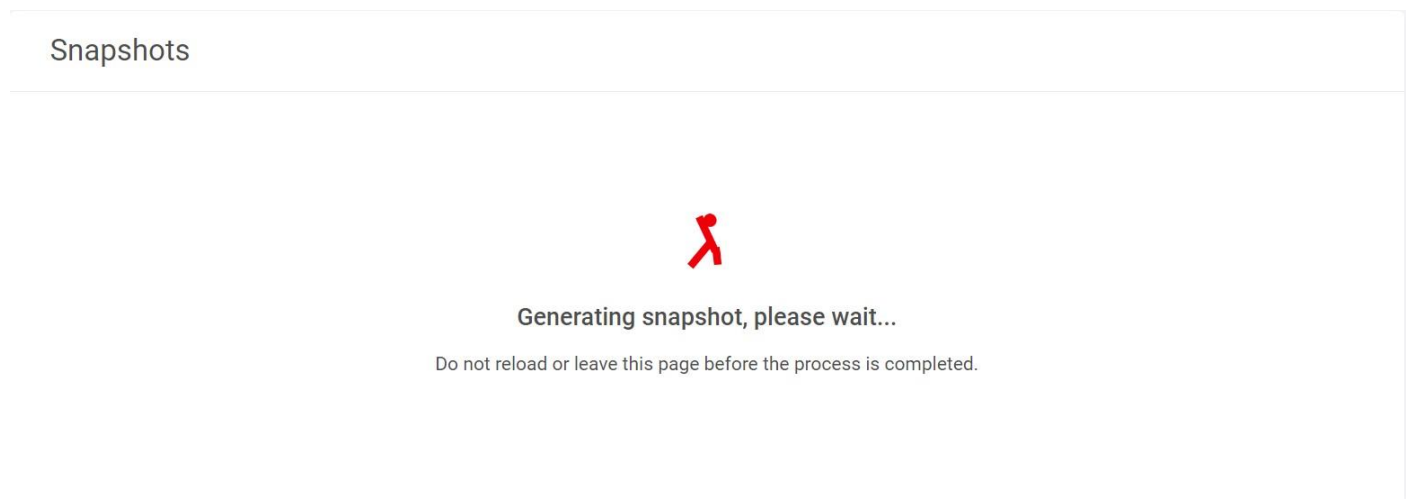
4. Test Strategy

The main goal of the smoke testing plan is to confirm that the updated functionality works as expected and not prevent new failures or bugs. Before the update the software needs to be saved (create the snapshot) to be able to restore data from a backup



Backup application

To create the snapshot (save data) of the Web Application we are using virtual server provider's tools.



5. Test Environment

All of the steps of software development of the application were done using personal desktop PC and Windows OS. It should be better to make testing on several OS's and Browsers, but the CMS system development should test this and not depend to plugin update

Hardware:

Motherboard: Gigabyte H470 HD3

CPU: Intel i9 10900

RAM: 32 GB DDR4 RAM 4200 MHz

GPU: AMD Radeon RX6800 16 GB

Software:

Windows 11 Pro

Version: 22H2

Build: 22621.963

Browser:

Google Chrome

Version: 108.0.5359.125 (64 bit)

Tools:

TestRail

Jira Software

Selenium IDE

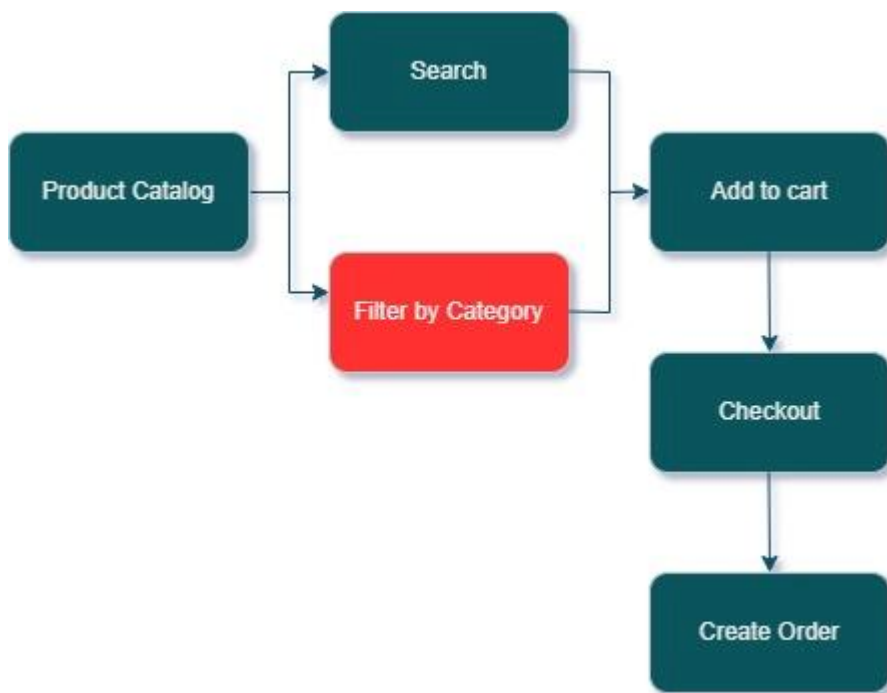
Microsoft Word

Microsoft Excel

Windows Sniping Tool

6. Test Plan

We do not test the login/registration function in this case, because it is added to CMS without the WooCommerce plugin



Checklist to test the functionality

To decrease testing time (because we are using CMS), there were selected Random (Monkey) testing design. In search and filter functionalities was selected only one value. They were added to cart, one item removed and order process was reproduced. Some steps needed to verify that whole functionality working as expected and check that customer and server received order info

Test Cases

Successfully deleted the test case.

Sort: Section | Filter: None | Display Deleted Test Cases | + Add Case | Edit | Delete | Columns

Smoke Testing 0

Test suits to excecute after the plugin update

[Add Case](#) | [Add Subsection](#)

WooCommerce plugin 8

WooCommerce plugin update smoke testing

| ID | Title |
|-----|---|
| C10 | Verify that main page is showing the product Catalog |
| C11 | Search item by typing "iPhone 11" and add first product to cart |
| C12 | Search item using checkbox in filter category "Samsung S21" and add first product to cart |
| C13 | Go to checkout page to confirm the cart has 2 items |
| C14 | Remove item related to Samsung and update cart |
| C15 | Go to payment page, select bank transfer payment and place the order |
| C17 | Confirm that the server receive and open new order |
| C18 | Cancel the test order |

Test Cases

+ Add Test Case

Contains 2 sections and 8 cases. Edit description

All + Add Section

- Smoke Testing
 - WooCommerce plugin

7. Test execution

We are doing smoke testing before and after update. This helps to confirm that the bugs or defects we found, occurs only after update.

Before plugin update

| Modules | Test Case ID | Test Type | Severity | Test Scenario | Test Steps | Expected Result | Actual Result | Status | Priority |
|-------------|--------------|-----------|----------|---|---|--|---|--------|----------|
| WooCommerce | C-10 | Smoke | Critical | Verify that main page is showing the product Catalog | 1. Open browser 2. Fill address bar with "www.tarv.ee" 3. Verify that in body of the page is Product Catalog | The body of the page "www.tarv.ee" should show Product catalog | The body of the page "www.tarv.ee" show Product catalog | Pass | High |
| WooCommerce | C-11 | Smoke | Moderate | Search item by typing "iPhone 11" and add first product to cart | 4. Type to the "Search" field "iPhone 11" and push Enter 5. Verify that search results contain items 6. Click on the "Add to cart" button below first product on the search results page 7. Verify that item added to cart | Search should show items related to iPhone 11 device and first item of list should be added to cart | Search show items related to iPhone 11 device and first item of list was added to cart | Pass | Medium |
| WooCommerce | C-12 | Smoke | Moderate | Search item using filter by category widget by marking checkbox "Samsung S21" and add first product to cart | 8. Mark the checkbox "Samsung S21" at that left widget area filter by category function 9. Verify that search results contain items 10. Click on the "Add to cart" button below first product on the search results page 11. Verify that item added to cart | Filter by category function should show items related to Samsung S21 device and first item of list should be added to cart | Filter by category function show items related to Samsung S21 device and first item of list was added to cart | Pass | Medium |
| WooCommerce | C-13 | Smoke | Critical | Go to the "Cart" page to confirm the cart has 2 items | 12. Click on the cart link at the header of the page to redirect 13. Verify that the cart contains two items | The cart should contain two items | The cart contains two items | Pass | High |
| WooCommerce | C-14 | Smoke | Critical | Remove item related to Samsung and update cart | 14. Click on the "x" button left side at the item related to Samsung device 15. Verify system message "The item was deleted" appear 16. Click on the cart link at the header of the page to redirect 17. Verify that item was removed and cart contains only one item | After removing item related to Samsung, cart should contain only one item | The cart contains one item | Pass | High |
| WooCommerce | C-15 | Smoke | Critical | Go to payment page, select bank transfer payment and place the order | 18. Go to checkout page 19. Select first row at the dropdown "Delivery parcel address" 20. Click on radio button "Direct Bank Transfer" 21. Mark checkbox "Agree terms and conditions" 23. Click the button "Place order" 24. Verify the message "Your order has been placed" appear | After all data entered and terms agreed, system should show message "Your order has been placed" | Message "Your order has been placed" appeared | Pass | High |
| WooCommerce | C-17 | Smoke | Critical | Confirm that the server receive and open new order | 25. Go to admin panel 26. Click on "Orders" page 27. Verify that new order has been placed | New order row should be placed at the "Orders" page | New order row was placed at the "Orders" page | Pass | High |
| WooCommerce | C-18 | Smoke | Moderate | Cancel the test order | 28. Click on the order to show its details 29. Select status "Canceled" from dropdown 30. Click button "Update" 31. Go to "Orders" page to verify that test order has status "Canceled" | The test order which was created during the testig should be with "Canceled" status | The test order which was created during the testig is with "Canceled" status | Pass | Low |

Almost all of the test cases were recorded with tool Selenium IDE, because we use them every time WooCommerce plugin need to be updated

The screenshot displays the Selenium IDE interface for a project named 'www.tarv.ee'. On the left, a list of test cases is visible under the suite 'WooCommerce Plugin Smoke Testing'. The main area shows a table of commands and their targets:

| Command | Target | Value |
|-----------------|--|--------|
| open | / | |
| set window size | 1275x919 | |
| verify text | css=woocommerce-products-header__title | Tooted |
| close | | |

Below the table, there are input fields for 'Command', 'Target', 'Value', and 'Description'. At the bottom, a log shows the execution of these commands with timestamps:

```

4. mouseOver on css=.toplevel_page_woocommerce > .wp-menu-name OK 00:45:10
5. click on linkText=Tellmused OK 00:45:13
6. verifyText on css=.status-on-hold > span with value Ootel OK 00:45:14
7. close OK 00:45:15
'C17 Confirm that the server receive and open new order' completed successfully 00:45:15
  
```

After plugin update

The bug was found when we test critical path functionality “Filter by Category”, which helps customers to search accessories needed for their devices. If the function is not working as expected there is very hard to find needed items.

| Command | Target | Value |
|-----------------|------------------------|------------|
| open | / | |
| set window size | 1275x919 | |
| click | css=#block-19 button | |
| click | id=s21 | |
| click | linkText=Lisa korvi | |
| pause | 1000 | |
| verify text | css=count:nth-child(2) | 2 artiklit |
| close | | |

Log

- 2. setWindowSize on 1275x919 OK 00:55:32
- 3. click on css=count:nth-child(2) OK 00:55:33
- 4. verifyElementPresent on css=woocommerce-cart-form__cart-item:nth-child(1) > .product-remove Undetermined Aborting... 00:55:35

*C-13 Go to the "Cart" page to confirm the cart has 2 items' was aborted 00:55:35

“Filter by Category” functionality stops working and if customer marks any device checkbox, the system shows error “Midagi ei leitud (Nothing found)”, like there were no items with this filter. Because plugin WooCommerce developed by another group of people, we should restore the web-application from backup, skip this update and wait for the plugin update fix.

Midagi ei leitud

Valmis esimese postituse avaldamiseks? Alusta siit.

Test cases list where was bug found

| Modules | Test Case ID | Test Type | Severity | Test Scenario | Test Steps | Expected Result | Actual Result | Status | Priority |
|-------------|--------------|-----------|----------|---|---|--|---|--------|----------|
| WooCommerce | C-10 | Smoke | Critical | Verify that main page is showing the product Catalog | 1. Open browser 2. Fill address bar with "www.tarv.ee" 3. Verify that in body of the page is Product Catalog | The body of the page "www.tarv.ee" should show Product catalog | The body of the page "www.tarv.ee" show Product catalog | Pass | High |
| WooCommerce | C-11 | Smoke | Moderate | Search item by typing "iPhone 11" and add first product to cart | 4. Type to the "Search" field "iPhone 11" and push Enter 5. Verify that search results contain items 6. Click on the "Add to cart" button below first product on the search results page 7. Verify that item added to cart | Search should show items related to iPhone 11 device and first item of list should be added to cart | Search show items related to iPhone 11 device and first item of list was added to cart | Pass | Medium |
| WooCommerce | C-12 | Smoke | Moderate | Search item using filter by category widget by marking checkbox "Samsung S21" and add first product to cart | 8. Mark the checkbox "Samsung S21" at that left widget area filter by category function 9. Verify that search results contain items 10. Click on the "Add to cart" button below first product on the search results page 11. Verify that item added to cart | Filter by category function should show items related to Samsung S21 device and first item of list should be added to cart | Filter by category function does not show items related to Samsung S21, there is error "Midagi ei leitud (Nothing found)" | Fail | Medium |
| WooCommerce | C-13 | Smoke | Critical | Go to the "Cart" page to confirm the cart has 2 items | 12. Click on the cart link at the header of the page to redirect 13. Verify that the cart contains two items | The cart should contain two items | The cart contains two items | Pass | High |
| WooCommerce | C-14 | Smoke | Critical | Remove item related to Samsung and update cart | 14. Click on the "x" button left side at the item related to Samsung device 15. Verify system message "The item was deleted" appear 16. Click on the cart link at the header of the page to redirect 17. Verify that item was removed and cart contains only one item | After removing item related to Samsung, cart should contain only one item | The cart contains one item | Pass | High |
| WooCommerce | C-15 | Smoke | Critical | Go to payment page, select bank transfer payment and place the order | 18. Go to checkout page 19. Select first row at the dropdown "Delivery parcel address" 20. Click on radio button "Direct Bank Transfer" 21. Mark checkbox "Agree terms and conditions" 23. Click the button "Place order" 24. Verify the message "Your order has been placed" appear | After all data entered and terms agreed, system should show message "Your order has been placed" | Message "Your order has been placed" appeared | Pass | High |
| WooCommerce | C-17 | Smoke | Critical | Confirm that the server receive and open new order | 25. Go to admin panel 26. Click on "Orders" page 27. Verify that new order has been placed | New order row should be placed at the "Orders" page | New order row was placed at the "Orders" page | Pass | High |
| WooCommerce | C-18 | Smoke | Moderate | Cancel the test order | 28. Click on the order to show it's details 29. Select status "Canceled" from dropdown 30. Click button "Update" 31. Go to "Orders" page to verify that test order has status "Canceled" | The test order which was created during the testig should be with "Canceled" status | The test order which was created during the testig is with "Canceled" status | Pass | Low |

8. Bug report

The bug report of the issue was created using Jira Software. Was selected Highest priority because testing was by critical path scheme

Filter by Category widget won't show items

Attach
 Add a child issue
 Link issue

Description

STR

- Open main page of the web application (<https://www.tarv.ee>)
- In the left side widget area "Filter by Category" mark checkbox "iPhone 11" to filter items
- Verify that "Filter by Category" functionality shows items, related to iPhone 11 device

Expected Result:

"Filter by Category" functionality should show items, related to iPhone 11 device

Actual Result:

"Filter by Category" functionality does not show items, related to iPhone 11 device, but shows error "Midagi ei leitud (Nothing was found)"

Environment

Windows 11 Pro, Version: 22H2, Build: 22621.963

Google Chrome, Version: 108.0.5359.125 (64 bit)

To Do

Pinned fields

Click on the next to a field label to start pinning.

Details

Priority
 Highest

Category
WooCommerce

Assignee
 Dmitri Stankevits

Version
7.2.2

Due date
Jan 10, 2023

Created 8 minutes ago
Updated 6 minutes ago

Configure

9. Test types and design techniques used in project

In the project was used Critical Path type of testing, which focuses on WooCommerce (e-commerce) Plugin functionality used by typical users to place a new order. This kind of testing, may be called Smoke testing, as it tests only high severity steps, and if they fail, other tests is not neccessary. In the tests with Search and Filter functionality was used Random (monkey) technique to decrease level of values. It can be used in this case, because WooCommerce plugin developed by own team programmers and testers and if the function is working, there are no neccessary to test all values

10. Reflection

During this smoke testing there was only one difficulty. While were recorded steps with Selenium IDE and reproduce them, errors occur while playing the “Verify text” function. It happened because speed of playing the steps was very fast and web application was not so quick enough to update data. The issue was resolved by decreasing the speed of executing steps.