

SOFTWARE VERIFICATION, VALIDATION AND TESTING

TESTING DOCUMENTATION

Terranova site testing

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Date of submission

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1. Introduction

1.1. About the Project

For the project, we are going to test the Terranova website. It is the official website of the Terranova store meant to be used by customers to order clothes, as well as contact stores to obtain information about prizes, availability, etc. We will test various links on the site, the functionalities the website offers, and whether or not the site works as intended.

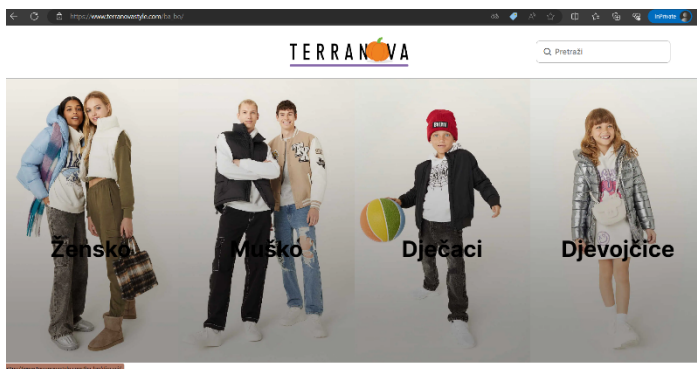
The link to the website: https://www.terrastyle.com/ba_bo/

The link to the GitHub repository: https://github.com/AminaRepository/SVVT_project

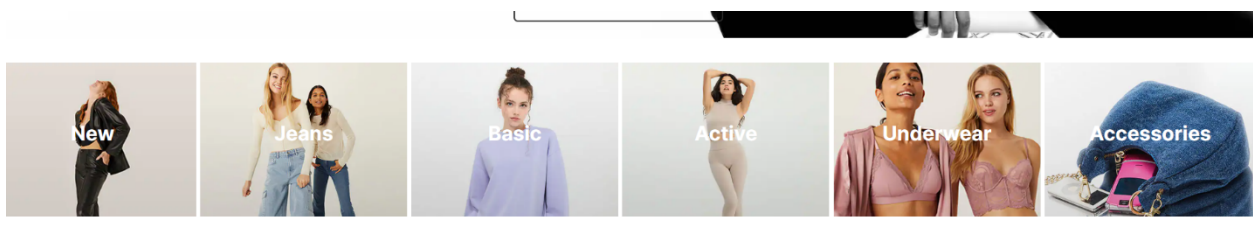
1.2. Project Functionalities and Screenshots

The main features of the website are:

- The four sections of clothing on the website (female, male, boys and girls)



- the further classification of clothes within the sections (new, sale, specific styles of clothes)



- the filter used to sort results

Szűrők

×

Nijedan filter nije aktivan

Sortiraj prema

VijestiCijena uzlaznoCijena silazno

Boja

Crna

Varijanta

Bijela

Plava

Siva

Zelena

Crvena

Veličina

34 EU

36 EU

38 EU

40 EU

42 EU

Line

Curvy

Ukloni sve

Pogled 39 termékek

2. Bug Report Example

Bug: Parts of the site are not translated to Bosnian when the site loads.

Steps to reproduce:

- open the website https://www.terrastyle.com/ba_bo/
- go to the women's section
- go to the "new" section
- the filter is in a foreign language
- click on the filter
- choose size 34
- the confirmation button is also in a foreign language

Expected result: the site is properly translated to Bosnian as it is the BiH site for Terranova

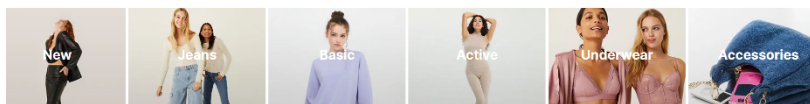
Actual results: parts of the website are still in a foreign language

Environment: Official Terranova website

Attachments:

Novo u LEATHER EFFECT

Kupi



Novo u Žensko

Szűrők

Odjeća

Rasprodaja

Donje rublje

Modni dodaci



Skirt with draping
~~23,06 BAM~~ 17,95 BAM
-25%



Leather effect culottes
37,95 BAM



Overized T-shirt with rock print and lettering
14,95 BAM



Long dress with draping
67,95 BAM

Szűrők

X

Nijedan filter nije aktivan

Sortiraj prema

Vijesti

Cijena uzlazno

Cijena silazno

Boja



Crna



Varijanta



Bijela



Plava



Siva



Zelena



Crvena

Veličina

34 EU

36 EU

38 EU

40 EU

42 EU

Line

Curvy



Ukloni sve

Pogled 39 termékek

3. Test Plan

We will first do a smoke test to check if everything is working as intended and the main functionality can be achieved. Then we will check details there to make browsing the website easier (filters etc.) and lastly, we will check links and visual aspects of the site to see if everything is properly implemented.

3.1. Scope

We are going to test the following features:

- The main use of the site, is the user able to find a piece?
- All of the links on the website and if they lead to a working part of the webpage / other working web pages
- The filtering mechanic and whether or not all of the filters work as intended (Filter by colour, size, price, material)

3.2. Testing Environment and Tools

We are going to be using VSCode. We will be using Selenium, in TypeScript.

4. Test Execution

4.1. Smoke Test

| Test Name: Smoke Test | | | | |
|---|------------|---|--|---------|
| Description: Testing main functionalities | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the male clothing section (Muško) on the main page. 3. Click on the male clothing section (Muško). 4. Scroll down the page until the “Jeans” subsection is visible. 5. Click on the “Jeans” subsection. 6. Click on the first jeans item. 7. Check whether the first jeans item is displayed. | None | 1. The main page is shown. 2. The male clothing section is located. 3. The male clothing section is shown with its subsections. 4. The male jeans subsection is located. 5. The male jeans subsection is shown. 6. The first jeans item is opened and displayed. 7. The first jeans item is opened and displayed. | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 4. The male clothing section is located. 5. The male clothing section is shown with its subsections. 6. The male jeans subsection is located. 7. The male jeans subsection is shown. 8. The first jeans item is opened and displayed. 9. The first jeans item is opened and displayed. | PASS |

Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code

4.2. “About us” page

| Test Name: “About us” page | | | | |
|---|------------|---|--|---------|
| Description: Navigation from the main page to the about us page | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Scroll down the page until the “about us” (O nama) hyperlink is visible in the bottom left corner. 3. Click on the “about us” (O nama) hyperlink. 4. Check whether the “about us” (O nama) web page is displayed. | None | 1. The main page is shown. 2. “About us” (O nama) hyperlink is located. 3. “About us” (O nama) web page is opened. 4. “About us” (O nama) web page is displayed. | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 4. “About us” (O nama) hyperlink is located. 5. “About us” (O nama) web page is opened. 6. “About us” (O nama) web page is displayed. | PASS |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code | | | | |

4.3. Boys clearance section

| Test Name: Boys clearance section | | | | |
|--|------------|---|--|---------|
| Description: Navigating from the main page to the boys' clothing section and the boys' clearance sale subsection | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the boys' clothing section on the main page 3. Click on the boys' clothing section. 4. Below the “Rasprodaja dječaci” (clearance sale) title click on the available | None | 1. The main page is shown. 2. The boys' clothing section is located. 3. The boys' clothing section is opened. 4. The boys' long-sleeved shirts clothing subsection | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 3. The boys' clothing section is located. 4. The boys' clothing section is | PASS |

| | | | | |
|--|--|--|--|--|
| hyperlink “Majice dugih rukava” (Shirts with long sleeves) 5. Check if the boys’ long-sleeved shirts clothing subsection is displayed | | is opened. 5. Boys’ long-sleeved shirts clothing subsection is displayed. | opened. 5. The boys’ long-sleeved shirts clothing subsection is opened. 6. Boys’ long-sleeved shirts clothing subsection is displayed. | |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code. The long-sleeved section is called “kaputi i jakne” | | | | |

4.4. Girls new arrivals

| Test Name: Girls new arrivals | | | | |
|--|------------|--|--|---------|
| Description: Navigating from the main page to the Girls’ section, Online Exclusive subsection, clothing items are sorted according to new arrivals via the filter. | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the girls’ clothing section on the main page. 3. Click on the girls’ clothing section. 4. Scroll down the page until the “Online Exclusive” subsection is visible. 5. In the top right corner locate the filter and click on it. 6. Click on the “new” (here translated as Vijesti) category in the filter. 7. Check if the new clothing girls’ subsection is shown. | None | 1. The main page is shown. 2. The girls’ clothing section is located. 3. The girls’ clothing section is open. 4. The “Online Exclusive” subsection is located. 5. Filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, material, pattern type, lifestyle, model, waist height, sleeve type, neck style, and unique. 6. The web page refreshes and the new clothing girls’ | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 4. The girls’ clothing section is located. 5. The girls’ clothing section is open. 6. The “Online Exclusive” subsection is located. 7. Filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, material, pattern type, lifestyle, model, waist height, sleeve type, neck style, and unique. | PASS |

| | | | | |
|---|--|--|--|--|
| | | subsection is opened. 7. The new clothing girls' subsection is shown. | 8. The web page refreshes and the new clothing girls' subsection is opened. 9. The new clothing girls' subsection is shown. | |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code | | | | |

4.5. Search women

| Test Name: Search women | | | | |
|---|-------------------|--|---|----------------|
| Description: Populate an input field on the main page with “women”, sorting results to be only women’s items. | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the “search” input field on the main page in the top right corner. 3. Populate “search” the input field. 4. Execute the keyboard action to submit or confirm by pressing the 'Enter' key. 5. Check if women’s clothing items are displayed. | Input: “women” | 1. The main page is shown. 2. The “search” input field is located. 3. The “search” input field is populated. 4. Women’s clothing items are displayed. 5. Women’s clothing items are displayed. | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 4. The “search” input field is located. 5. The “search” input field is populated. 6. Women’s clothing items are displayed. 7. Women’s clothing items are displayed. | PASS |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code | | | | |

4.6. Girls purple and cotton filter

| Test Name: Girls purple and cotton filter |
|--|
| Description: Navigating from the main page to the Girls’ section, Online Exclusive subsection, clothing items are sorted according to purple colour and cotton material via the filter. |
| Pre-condition(s): // |

| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
|--|------------|--|---|---------|
| <p>1. Open the website: https://www.terranovastyle.com/ba_bo/</p> <p>2. Locate the girls' clothing section on the main page.</p> <p>3. Click on the girls' clothing section.</p> <p>4. Scroll down the page until the "Online Exclusive" subsection is visible.</p> <p>5. In the top right corner locate the filter and click on it.</p> <p>6. Click on the "Ljubičasta" (purple) colour category (Boja) in the filter.</p> <p>7. Click on "Pamuk". (cotton) material category (Sastav) in the filter.</p> <p>8. Scroll down the filter until the "apply filters" button is located.</p> <p>9. Click on the "apply filters" button.</p> <p>10. Check if the subsection of purple and cotton girls' clothing is displayed.</p> | None | <p>1. The main page is shown.</p> <p>2. The girls' clothing section is located.</p> <p>3. The girls' clothing section is open.</p> <p>4. "Online Exclusive" subsection is located.</p> <p>5. Filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, material, and pattern type, lifestyle, model, waist height, sleeve type, neck style, unique.</p> <p>6. The "Ljubičasta" (purple) colour category in the filter becomes selected.</p> <p>7. The "Pamuk" (cotton) material category in the filter becomes selected.</p> <p>8. The "apply filters" button is located.</p> <p>9. The subsection of purple and cotton girls' clothing is opened.</p> <p>10. The subsection of purple and cotton girls' clothing is displayed.</p> | <p>1. The main page is shown.</p> <p>2. Cookies are declined.</p> <p>3. Pop-up is closed with "next" button.</p> <p>4. The girls' clothing section is located.</p> <p>5. The girls' clothing section is open.</p> <p>6. "Online Exclusive" subsection is located.</p> <p>7. Filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, material, and pattern type, lifestyle, model, waist height, sleeve type, neck style, unique.</p> <p>8. The "Ljubičasta" (purple) colour category in the filter becomes selected.</p> <p>9. The "Pamuk" (cotton) material category in the filter becomes selected.</p> <p>10. The "apply filters" button is located.</p> <p>11. The subsection of purple and cotton girls' clothing is opened.</p> <p>12. The subsection of purple and cotton girls' clothing is displayed.</p> | PASS |

Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code

4.7. Women's subsection

| Test Name: Women's subsection | | | | |
|--|------------|--|---|---------|
| Description: Navigate from the main page to the women's clothing section and active subsection. | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the women's clothing section on the main page. 3. Click on the women's clothing section. 4. Check if the women's clothing section is displayed. | None | 1. The main page is shown. 2. The women's clothing section is located. 3. The women's clothing section is open. 4. The women's clothing section is displayed. | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with "next" button. 4. The women's clothing section is located. 5. The women's clothing section is open. 6. The women's clothing section is displayed. | PASS |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code | | | | |

4.8. Men size 38

| Test Name: Men size 38 | | | | |
|---|------------|---|--|---------|
| Description: Test description | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the men's clothing section on the main page. 3. Click on the men's clothing section. 4. In the top right corner locate the filter and click on it. 5. Click on the "Crna" | None | 1. The main page is shown. 2. The men's clothing section is located. 3. The men's clothing section is open. 4. A filter is opened to sort the results with categories: | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with "next" button. 4. The men's clothing section is located. 5. The men's clothing section is open. | PASS |

| | | | | |
|---|--|--|--|--|
| (black) colour category (Boja) in the filter. 6. Click on the “38 EU” size category (Veličina) in the filter. 7. Click on the “apply filters” button. 8. Check if the subsection of black and 38 EU-sized men’s clothing is displayed. | | according to ascending and descending prices, new, colour, and size. 5. The “Crna” (black) colour category (Boja) in the filter becomes selected. 6. The “38 EU” size category (Veličina) in the filter becomes selected. 7. The subsection of black and 38 EU-sized men’s clothing is opened. 8. The subsection of black and 38 EU-sized men’s clothing is displayed. | 6. Sellout section is opened. 7. A filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, and size. 8. The “Crna” (black) colour category (Boja) in the filter becomes selected. 9. The “38 EU” size category (Veličina) in the filter becomes selected. 10. The subsection of black and 38 EU-sized men’s clothing is opened. 11. The subsection of black and 38 EU-sized men’s clothing is displayed. | |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code. The men’s section does not have the filter, so we had to additionally enter the sellout (Super rasprodaja) section for the filter to appear. | | | | |

4.9. Men’s blue shoes

| | | | | |
|---|-------------------------------|--|---|----------------------------|
| Test Name: Men’s blue shoes | | | | |
| Description: Test description | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Locate the men’s clothing section on the main page. 3. Click on the men’s clothing section. 4. In the top left corner, | Test Data: None | Expected Result: 1. The main page is shown. 2. The men’s clothing section is located. 3. The men’s clothing section is open. 4. The drop-down | Actual Result: 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 4. The men’s clothing section is located. | Status: PASS |

| | | | | |
|--|--|--|---|--|
| hover over the men's (Muško) hyperlink. 5. In the subsection accessories ("Modni dodaci") click on the first hyperlink shoes ("Cipele") 6. In the top right corner locate the filter and click on it. 7. Click on the blue ("Plava") colour category ("Boja") in the filter. 8. Click on the "apply filters" button. 9. Check if the subsection of blue men's shoes is displayed. | | menu of all male subsections is shown. 5. Mens' shoes subsection is opened. 6. Filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, and size. 7. The blue ("Plava") colour category ("Boja") in the filter becomes selected. 8. The subsection of blue men's shoes is opened. 9. The subsection of blue men's shoes is displayed. | 5. The men's clothing section is open. 6. The drop-down menu of all male subsections is shown. 7. Mens' shoes subsection is opened. 8. Filter is opened to sort the results with categories: according to ascending and descending prices, new, colour, and size. 9. The blue ("Plava") colour category ("Boja") in the filter becomes selected. 10. The subsection of blue men's shoes is opened. 11. The subsection of blue men's shoes is displayed. | |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code | | | | |

4.10. Search short sleeves

| Test Name: Search short sleeves | | | | |
|--|------------------------|---|--|---------|
| Description: Populate an input field on the main page with "short sleeves", sorting results to contain relevant short-sleeved and short-adjacent items. | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terrastyle.com/ba_bo/ 2. Locate the "search" input field on the main page in the top right corner. 3. Populate the "search" input field. | Input: "short sleeves" | 1. The main page is shown. 2. The "search" input field is located. 3. The "search" input field is populated. 4. Clothing items | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with "next" button. 4. The "search" input field is located. | PASS |

| | | | | |
|---|--|--|---|--|
| 4. Execute the keyboard action to submit or confirm by pressing the 'Enter' key. 5. Check if short-sleeved clothing items are displayed. | | with short sleeves are displayed. 5. Clothing items with short sleeves are displayed. | 5. The “search” input field is populated. 6. Clothing items with short sleeves are displayed. 7. Clothing items with short sleeves are displayed. | |
| Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code | | | | |

4.11. Contact us section

| Test Name: Contact us section | | | | |
|--|---|--|--|---------|
| Description: Navigating from the main page, the Contact us page is reached, populated with some data and sent. | | | | |
| Pre-condition(s): // | | | | |
| Test Steps: | Test Data: | Expected Result: | Actual Result: | Status: |
| 1. Open the website: https://www.terranovastyle.com/ba_bo/ 2. Navigate to the bottom of the page and locate “contact us” (Kontaktiraj nas) hyperlink 3. Populate the “your email address” input field. 4. Populate the “Request subject” input field. 5. Populate the “Request” input field. 6. Populate the “Message” input field. 7. Check the Privacy Policy box. 8. Click on the black submit button. 9. Check if the information populated in input fields is sent successfully. | Input: Email: potogijahena@gmail.com Request subject: Other Request field: Bugfixes Message input field: Please put more effort into the Bosnian Terranova website! | 1. The main page is shown. 2. The “contact us” (Kontaktiraj nas) hyperlink is located. 3. The “your email address” input field is populated. 4. The “Request subject” input field is populated. 5. The “Request” input field is populated. 6. The “Message” input field is populated. 7. The Privacy Policy box is checked. 8. The information populated in input fields is sent. 9. The information populated in input fields is sent successfully. | 1. The main page is shown. 2. Cookies are declined. 3. Pop-up is closed with “next” button. 4. The “contact us” (Kontaktiraj nas) hyperlink is located. 5. The dropdown menu is opened. 6. The appropriate field in the dropdown menu is unable to be located by the software. Further steps were unable to be tested. | FAIL |

Notes: Cookies and pop-up were originally unaccounted for, it was dealt with in code. There is an issue regarding the XPath of the dropdown options, it is impossible to get to it. When manually doing the task through the software-created browser there is a “I am not a robot” button / CAPTCHA test which is not there if the site is opened manually in a separate browser.

5. Conclusion

5.1. Testing Summary

| Testing Tool | Total Tests | Passed Tests | Failed Tests | Percentage passed |
|------------------------------|-------------|--------------|--------------|-------------------|
| VSCode, Selenium, TypeScript | 11 | 10 | 1 | 90.90% |

Failing tests:

4.11 Contact us section

This test has failed due to the inability to get to the form and populate it. There is an unexpected dropdown menu with three options, seemingly all the same (“Submit a request”) with the first one being in Italian. Any of the options bring you to the same page (with a different link end, ID is different) where you can enter your email and so on.

When trying to perform the task in the web browser made with the testing software, the ID or XPath of any of those options is impossible to come by. We have tried different methods of extracting it but failed each time.

This task therefore failed. We have still written out the rest of the code as we think it should work, with the ninth step left uncoded as we are not sure how we can check if the request is submitted since we do not know if we can do it with the search of a confirmation message, or checking the link.

5.2. Final Thoughts

We have, through this project, seen just how complicated and thorough testing a website can be. We have had to go through several different parts of it, and try to use several of the features, the filters, links, etc.

Using Selenium has been a challenge, but mostly due to using TypeScript. We discovered it was much easier in Python as we originally started in that language, before correcting our mistake. Using Selenium is difficult and somewhat clunky, but once the main needs are figured out the experience becomes much smoother and even satisfying.

Nevertheless, we struggled to properly set up our project and ended up having to rely on whether or not all the tasks were done instead of the “test failed” or “test succeeded” flags as we struggled to properly implement the test cases on our laptops.

We have tried several ways of doing it but due to time constraints had to settle with judging the tests on whether or not all test steps were completed, not on the output (“test failed” VS “test succeeded”).

It taught us how to effectively use the “inspect element” option on a website, and how to find various elements in the HTML. It was a very intriguing learning experience.

The site we chose was Terranova, and we found that the site was horribly implemented. Several places were in different languages; the cookies were in Italian, the filter was in Turkish, and the apply filter button was also in Turkish.

The site seemed rushed and cobbled together with little thought and did not even have the option of ordering items. While the main functionality, which was browsing for items, was achievable, the overall experience was not good due to the various language issues.

We would recommend that the site get reworked, with a large focus on proper language and translation implementation.