

11. Describe how you would test a flashlight or a kettle according to the testing levels in the format Level-Test Name (video)

Feedback from the coach:



Привіт) 11: робота виконана чудово) можна робити демонстраційну версію для інших, розумничка)

19:48

Project		
Testing an electric kettle by testing levels		
Name	Version	Attachments
GORENJE electric kettle with whistle	K17CLIN	

Characteristic			Electric kettle testing levels					
Volume 1.7L. Power 2200W	Acceptance	Take the kettle out of the box. Check for the presence of the stand. Operating instructions. Make sure that the kettle plug is suitable for the regional network of the customer's country. Pour 1.7 liters of water into the kettle and check whether the water level on the scale reaches the maximum level (1.7 liters). Boil the kettle, waiting for the whistle to sound and for it to turn off on its own	Alpha	Give the kettle for inspection to the acceptance testing department and ask to check the presence of a stand. Operating instructions. Make sure that the kettle plug is suitable for the regional network of the customer's country. Pour 3 liters of water into the kettle and check whether the water level on the scale reaches the maximum level (3 liters). Boil the kettle, waiting for the whistle to sound and for it to turn off on its own	Beta	Have friends, customers, or a control group of independent users test the kettle to get feedback on the product's performance and complaints about any defects found	Gamma	Give the kettle to the customer, and end users, to check its performance and correct defects identified during the Beta testing stage. Receive feedback and complaints about the product's operation through the feedback form or technical support service
System tests								
Pour water into the kettle to the maximum allowed level. Place it on the stand. Connect the cable to the 220V network. Turn on the kettle and wait for the whistle to sound and the kettle to turn off automatically after boiling. Check the boiling temperature of the water in the kettle								

				Integration tests				
Integration test 1		Integration test 2		Integration test 3		Integration test 4	Integration test 5	Integration test 6
Pour 1 liter of water into the kettle and check the water level on the scale on the side glass and the tightness of the glass installed in the flask		Close the lid of the kettle and place the kettle on the stand without plugging the cable into the socket		Plug the cable into the outlet, turn on the kettle with water inside, wait 1 minute, and turn it off. Then check the thermometer readings		Bring the kettle with water (1.7 l) inside to a boil and check if there is a whistling sound and if the kettle turns off on its own	Achieve power exceeding 2200W	Place the kettle on the stand, plug it into the outlet and boil the kettle without water
				Unit tests				
Unit-test 1		Unit-test 2		Unit-test 3		Unit-test 4	Unit-test 5	Unit-test 6
Check whether the electrical plug fits the sockets specified in the regional standards of the user's country		Check if the connector on the stand matches the connector in the kettle itself		Check the kettle's flask for tightness so that it does not leak water		Check the thermometer for performance before use in the finished product	Check the presence of a scale (volume in ml) on the sample placed on the glass	Check the operation of the kettle's on-off button mechanism
	Unit-test 7		Unit-test 8		Unit-test 9		Unit-test 10	Unit-test 11
	Check whether the diameter of the kettle lid fits the flask itself		Check whether the cable is completely hidden in the stand (its length and the mechanism for folding the cable into the stand)		Check the performance of the heating element supplied by the manufacturer before using it in the finished product		Connect a cable to the stand with a plug that does not meet the regional standards of the customer's country	Apply voltage through a cable with technical damage

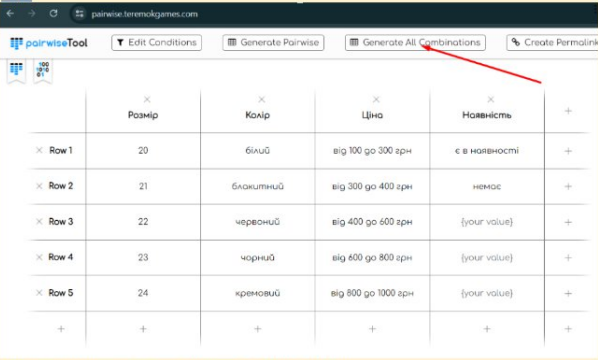
Coach's task:	14. Test your website using all the test types you know (levels are not necessary) in the format Type-Test Name, 1 test for each type. (video and 4 more)	
Test environment	https://www.sinsay.com/special/store/	
ID	Type	Test
1	Performance testing	Check whether the actual maximum load of the site's main page meets the established performance requirements
2	Load testing	Using Apache JMeter, go to the page https://www.sinsay.com/special/store/ with a load of 10,000 users
3	Stress testing	Using Apache JMeter, drive users to the site's main page until the page can no longer handle the load
4	Recovery testing	After the site is restored, check if data has been lost and if everything is working and displayed correctly
5	Volume testing	Increase the database size (the amount of data stored and used) and check if the site starts working faster
6	Endurance / Soak testing	Test the site under constant load with 10,000 users for 1 week to assess the system's behavior under prolonged load
7	UI testing	Check the quality of the user interface on the website
8	GUI testing	Check whether the site style, images have loaded, whether the correct font, color and background are used, and whether the elements of the site's web pages are centered
9	Learnability testing	With the involvement of end users, during 1 hour of testing, check whether it is easy for users to find elements and necessary information on the site
10	Memorability testing	Conduct a survey of a control group of end users to see if they remember where everything was on the site
11	Satisfaction testing	Conduct a survey of a control group of end users to see if they are satisfied with our site
12	Errors testing	Conduct a survey of a control group of end users to see if they made any mistakes while using our site, and what kind of mistakes?
13	Compatibility testing	Check how our site works on different browsers (Chrome, Safari, Edge, Firefox, Opera), and on different systems (Android, IOS, Linux, Windows)
14	Localization testing	Check if the site translation into Ukrainian, Bulgarian, Czech, German, Spanish, Greek, Croatian, Italian, and Lithuanian is working
15	Globalization testing	Check the ability to translate the registration page for users regardless of their localization or culture or national characteristics (using all possible input data)
16	Internationalization testing	Select the country Italy on the main page and check whether the date, time, numeric and currency formatting match the specified regional standards
17	Confirmation testing	Check the ability to add the product to favorites after fixing the bug indicated in bug report SIN_01 by conducting the same test
18	Smoke testing	Test the website login form (after changing the main components) after moving the "Login" button to the bottom of the form
19	Regression testing	After adding a new feature (product filter by pattern) based on the Impact Analysis table, check the performance of all modules dependent on filtering
20	Sanity testing	Check the ability to filter products by color, size, pattern, material, according to the requirements after adding pattern filtering
21	Security testing	Try logging into the site using a valid login, personal data, phone number, and an invalid password
22	Accessibility testing	Check if subtitles are available on product videos for people with hearing impairments
23	Ad-hoc testing	In the registration form, enter the numbers 12354 instead of the username and try to register on the site
24	End-to-end testing	Open the site, register, log in with your details, find a black dress in the search, add the product "Black Dress" to the cart and place an order
25	Static testing	Check the test plan to reduce testing time
26	Requirements testing	Check site requirements for logic, consistency, completeness, and clarity
27	IPI testing	Check the functionality of the registration form on the site using the API request with Postman (at the stage when the graphical interface of the site is not yet ready)
28	Conformance testing	Check whether the finished site meets the established specifications that were given for its development at the beginning of the project
29	Backward compatibility testing	Place an order from our website using older versions of devices (phones, tablets, laptops, computers)
30	Age testing	Check the size of the site's database, and analyze its growth to understand whether there will be enough space in it to work in a year. Should it be increased?
31	Comparison testing	Evaluate our website's product card and compare it with the product page on the H&M website to identify the strengths or weaknesses of our product card
32	Qualification testing	Check the horizontal menu of the main page after its new release for compliance with the previously established requirements for it
33	Non-functional testing	Check the speed of sending confirmation after registration to the user's email
34	Ramp testing	Gradually increase the number of users and monitor how quickly users access the page with the "Spring Weekend" menu category until maximum load is reached
35	Scalability testing	Check the response time for processing a search query with 20,000 simultaneous users to understand how much faster the response time for processing a query with 30,000 simultaneous site users is needed
36	Configuration testing	Test the site on different browsers, OS and databases
37	Usability testing	Using a control group of end users, check how easily they can place an order on the website, and what problems they may encounter on the way to the final result
38	Gorilla testing	Test the website login form using different valid and invalid data many times

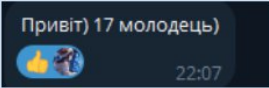
Coach's task:	15. Although testers are not required to write requirements, if there are none on the project, they may have to. Write 10 functional requirements for the website from task 2 (video)	Feedback from the coach:	
---------------	---	--------------------------	--

ID	Functional requirements for the site	Test Data
1	The user should be able to select the desired country from the list (Bosnia and Herzegovina, Bulgaria, Czech Republic, Germany, Estonia, Spain, Greece, Croatia, Italy, Lithuania, Latvia, Hungary, Poland, Romania, Slovenia, Slovakia, Serbia, Ukraine or Global store) from the dropdown menu, after which the user should be automatically transferred to the selected store with the desired localization. The names of the countries in the dropdown menu should be translated into the national language of the users of these countries, and the Global store - in English. By default, the site localization should be selected, relative to the localization of the user's browser. If the browser localization is not available, the user should go directly to the Global store.	https://www.sinsay.com/special/store/
2	On the product page, the user, by clicking on the button with the selected size, should see a message written in green font (#63A73A, font-family: Helvetica) "The product is in stock" when the product is in stock. And a message in red font (var(--colors-red-50), font-family: Helvetica) "last items" when 1 unit of the product is left in stock. If the desired size is not in stock, by clicking on the button with the selected size, the user should see a pop-up window with black text (#22252a, font-family: Helvetica) "The product is not available. Notify me of availability. We will notify you of its availability by email." In this window, the user should enter their email address and click on the orange button #E09243 with the text "SEND" in white (#f1f2f4, font-family: Helvetica). When the product in the desired size appears on the site, the user should receive a notification from the store to the specified email address, stating that the desired product has arrived in stock.	https://www.sinsay.com/ua/uk/shorty-z-dodavanniam-lonu-010am-08x
3	On the product page on the right side of the screen, under the product dimensions, you need to add a rectangular orange button #E09243, which contains an icon with the image of a bag, the text "ADD" in white (#f1f2f4, font-family: Euclid), the specified cost of the product selected by the user and the currency, which is automatically selected by the system when the user selects the appropriate site localization. When you click the "ADD" button, the product should be added to the cart	https://www.sinsay.com/ua/uk/shorty-z-dodavanniam-lonu-010am-08x
4	On the product page, the user should click on the transparent button with black text (#22252a, font-family: Helvetica) and an icon with a ruler "Size chart" to check their size against their own measurements. After clicking, a window with two tabs should open: "CHECK YOUR SIZE." and "HOW TO MEASURE?", where the user receives advice on how to measure their chest, waist, and hip circumference. At the bottom of the window, the user should see a warning (highlighted in blue #bfe2ff, and written in blue #00294d, font-family: Helvetica) "The specified body parameters, not clothing sizes." There should be a button in the upper right corner of the window to close the current window	https://www.sinsay.com/ua/uk/shorty-z-dodavanniam-lonu-1448z-03x https://www.sinsay.com/ua/uk/dzhem-per-z-dovhym-rukavom-3828z-50x
5	The user should be able to find out the approximate cost of delivering the product, which is calculated depending on the value of his order. To do this, the user should click on the transparent button with black text (#22252a, font-family: Helvetica) "Delivery cost" on the product page, and familiarize themselves with the corresponding table. The table should have 3 columns: purchases for the specified amount, delivery method, and delivery cost. Information about free delivery should be highlighted in light green #63A73A. The "Delivery cost" button should contain a truck icon.	https://www.sinsay.com/ua/uk/pidbor-y-5039z-03x
6	The user should be able to zoom in on a product photo on the product page by clicking on the main photo. When hovering over the photo, a magnifying glass icon with a plus inside should appear instead of the cursor. The zoomed photo should open in the current tab. The zoomed product photo should have buttons to "Close" and view the previous or next photo	https://www.sinsay.com/ua/uk/tufli-na-masyvnykh-pidborakh-7460y-02x
7	When adding a product to the cart, the user should be able to choose from the following two actions: 1) click on the orange button #E09243 with the text "GO TO CART" in white (#f1f2f4, font-family: Helvetica), after which the page with the cart where the selected product was added should open; 2) click on the transparent button with the text "CONTINUE SHOPPING" in black (#22252a, font-family: Helvetica), and automatically return to the page with the product that the user has just added to the cart	https://www.sinsay.com/ua/uk/bluzka-z-pryntom-683ai-99x
8	When adding a product to favorites, a window should open in the current tab for an unregistered user with an image of the selected product and the ability to select buttons: 1) an orange button #E09243 and white text (#f1f2f4, font-family: Helvetica) "LOG IN TO ADD PRODUCTS TO FAVORITES AND SAVE THEM FOR LATER"; 2) a white button with a black frame and black text (#22252a, font-family: Helvetica) "CREATE AN ACCOUNT" inside the button. The user should also be able to close the current window by clicking the "Close" button located in the upper right part of the window	https://www.sinsay.com/ua/uk/bluzka-z-pryntom-683ai-99x
9	In the cart, when clicking select to change the number of items in the cart in the dropdown menu, the user will be able to automatically remove the item from the cart by selecting the option "0 (Delete)", written in red. (var(--colors-red-50), font-family: Helvetica)	https://www.sinsay.com/ua/uk/checkout/cart/
10	In the shopping cart, the user should see the price of the selected products, the shipping cost, and the total amount of the order including VAT. This information should be located on the right side of the screen on a light gray background (var(--colors-dark-30) above the "PROCEED TO CHECKOUT" button	https://www.sinsay.com/ua/uk/checkout/cart/

Coach's task:	16. Write 2 tests for your site with valid and invalid data using
	a. Equivalent Partitioning - video b. Boundary Values - video c. Pairwise Testing - video d. Error Guessing - video
Test Data	https://www.sinsay.com/ua/
	Valid data
	Invalid data

a. Equivalence Partitioning		Data type	Test data
1	In the "Product Search" field, enter: "T-shirts, 2 pcs" and check that only T-shirts sold in 2 pcs are displayed in the search results		
2	In the "Product Search" field, enter: "T-shirts, 2 pcs" and check that only T-shirts sold in 2 pcs are displayed in the search results		
3	In the login form, enter valid data in the email field and log in to your account		email: niki2023happinewyear@gmail.com, password 1234567891984
4	In the login form, enter an invalid email in the email field and log in to your account		email: niki2023happinewyear@gmail.com, password 1234567891984
b. Boundary Values			
Note	There will be a lot of combinations on this site, so I chose only a few filters for the example		
1	When registering a new user, enter valid data in the "Name" field (Maximum 30 characters) and complete the registration successfully		Name: Anna
2	When registering a new user, enter a set of letters of 31 characters in the "Name" field and check if the registration will succeed. An error text should appear, highlighted in red: "Maximum 30 characters"		Name: Annaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
3	When registering a new user, do not enter anything in the "Name" field (Maximum 30 characters) and try to complete the registration. An error text should appear: "This is a required field" highlighted in red		
4	When registering a new user, enter valid data in the "Password" field (Minimum 6 characters) and complete the registration successfully		email: niki2023happinewyear@gmail.com, password: 111111
5	When registering a new user, enter 5 characters in the "Password" field and check if the registration is successful. An error text should appear, highlighted in red: Minimum 6 characters		email: niki2023happinewyear@gmail.com, password: 111111
6	When registering a new user, do not enter anything in the "Password" field (Maximum 6 characters) and try to complete the registration. An error text should appear: "his is a required field", highlighted in red		

c. Pairwise Testing			
Note	For generation I used https://pairwise.teremokgames.com/ . The result was generated and uploaded to Google Docs: https://docs.google.com/spreadsheets/d/1fiAgeAgl6C8-eBt6Fic6bqi7z90XNrL/edit?usp=sharing&ouid=106180356785508162653&rtipof=true&id=true		
			
1	Check product filtering by size, color, price, and stock availability		Size: 20; color: white; price: from 100 to 300 UAH; availability: in stock
2	Check product filtering by size, color, price, and stock availability		Size: 22; color: blue; price: from 400 to 600 UAH; availability: out of stock
3	Check product filtering by size, color, price, and stock availability		Size: 23; color: black; price: from 600 to 800 UAH; availability: in stock
4	Check product filtering by size, color, price, and stock availability		Size: 21; color: cream; price: from 800 to 1000 UAH; availability: out of stock
d. Error Guessing			
1	In the "My Data" section, when filling in the "Date of Birth" field, select your year of birth		Year of birth: 1984
2	In the "My Data" section, when filling in the "Date of Birth" field, you selected an invalid year of birth		Year of birth: 1913
3	In the "My Data" section, when filling in the "Phone" field, enter a valid phone number and save the information		Phone number: +380637140502
4	In the "My Data" section, when filling in the "Phone" field, enter an invalid phone number of 10 characters (Maximum 9 characters) and save the information		Phone number: +3806371405029

Coach's task:		Feedback from the coach:				
17. There is an Input field that accepts integer values from 18 to 99 inclusive. It needs to be tested using Boundary Values Analysis and Equivalence Partitioning techniques						
Boundary values						
Not valid	Valid	Not valid				
>18	18-99	<99				
17	18-99	100				
17	18, 19 - 98,99	100				
Valid collection of limit values: 17, 18, 99, 100						
Equivalence Partitioning						
Not valid	Valid	Not valid				
>18	18-99	<99				
17		105				
0		1000				
-4		1000000				
Valid collection of values: less than 18, 18 to 99, greater than 99						