Homework lecture 7 – Web Testing
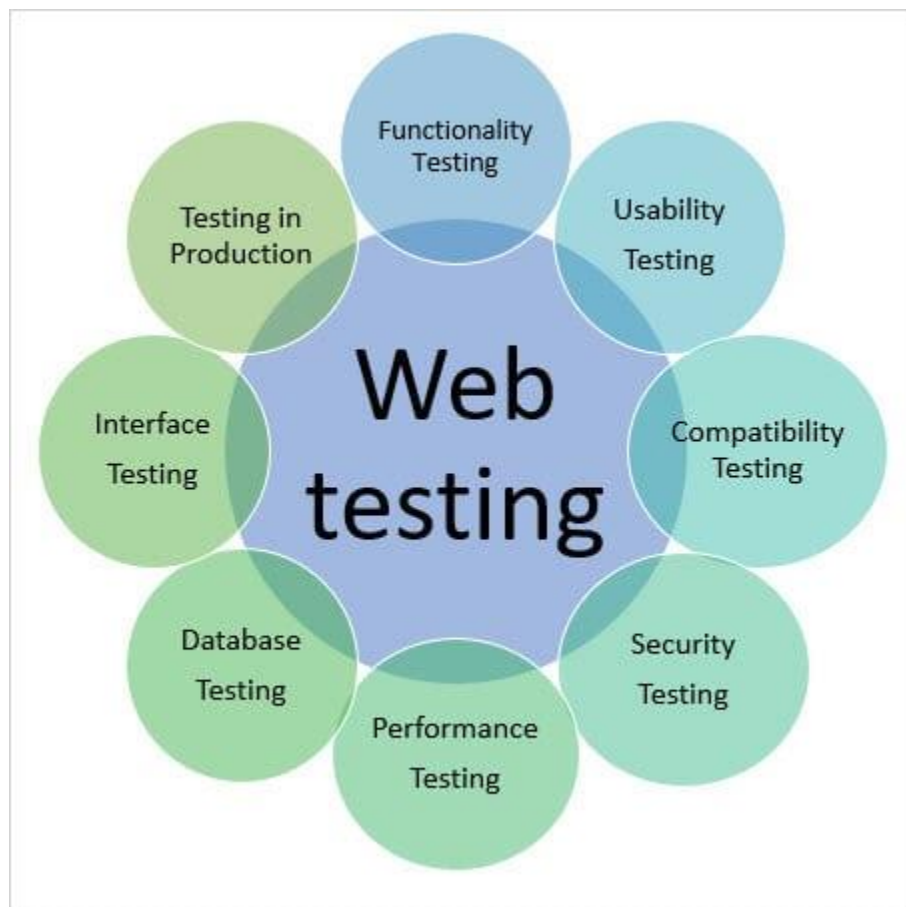
Assigned by: Mr. A. Radkov   **Assigned on: 13.03.2020**   **Deadline: 21.03.2020**
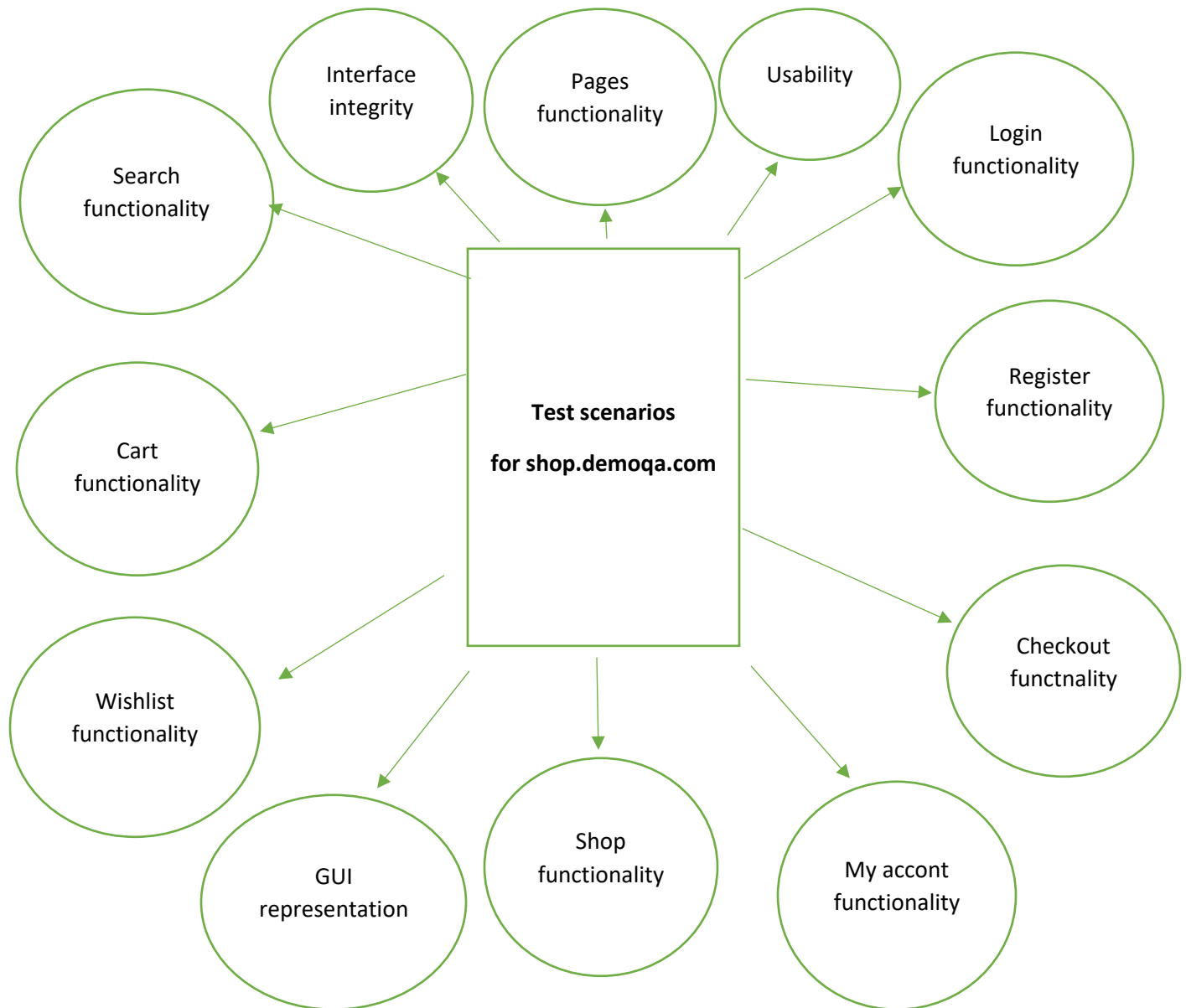
Assigned to: A. Etsov   **Submited on: 19.03.2020**

Task:

1. **Create high level test case scenarios for http://shop.demoqa.com/**

Some really basic structure by my definition for the site testing scenarios.

№			Test Scenarios
1.	Check Search functionality.	1.1	Check the consistency of the GUI of the search box, icon, position on page. What I mean – users usually expect the search box to be at the top/magnifying glass icon/
		1.2	Check autocomplete.
		1.3	Consistency on the search box on every page.
		1.4	Check for color + clothes search.
		1.5	Check that if when user scrolls down the page the top bar is still presented correctly.
		1.6	Search keyword should suggest similar kind of product/items
		1.7	Check if history displayed in search field should be relevant to logged in user only.
		1.8	When user clicks on any link from result and navigates back, then result should be maintained
		1.9	User should be able to search when he enters the keyword and hits 'Enter' button on keyboard
2.	Check web application page functionality.	2.1	Check the button that scrolls up the page to the top functionality.
		2.2	Check if everything on the home page is correctly (information wise) presented from other functionalities.
		2.3	Check return to demo qa site home page functionality after being inactive in the system for 60 seconds and you are logged out.
		2.4	Check home page consistency with other sites to redirect to the home page of the site by pressing the logo of the site positioned on top of the page.
		2.5	Check email / phone icons redirection to OS applications.
		2.6	Check links and buttons redirect to internal pages in the web application and not to orphan ones.
3.	Check Shop functionality.	3.1	Check Shop now button.
		3.2	Check product pages functionality.
		3.3	Check Return to shop functionality.
		3.4	Check radio buttons view product images functionality.
		3.5	Check that selecting a product user gets redirected to the product page.
		3.6	Check filter bar (drop down menus) functionality.
		3.7	Shopping currency should be based on region settings.
		3.8	Check all social sharing buttons are sharing the chosen product on their web platform.
C4.	Check Product functionality	4.1	Check Color drop down menu functionality.
		4.2	Check Size drop down menu functionality.
		4.3	Check QTY functionality.
		4.4	Check Add to wish list functionality.
		4.5	Check compare products functionality.
		4.6	Check View product images functionality.

		4.7	Check Product short information functionality.		
		4.8	Check Product title.		
		4.9	Check Product description.		
		4.10	Check if related products are presented correctly on the product page.		
		4.11	Check whether product information is displayed correctly when added to wishlist / cart.		
		4.12	Check Reviews tab functionality.	4.12.1	Check radio buttons type stars functionality.
				4.12.2	Check input review text field.
				4.12.3	Check Submit review functionality.
5.	Check Login functionality.	5.1	Check Lost password functionality.	5.1.1	Check Reset password functionality.
		5.2	Check the remember me radio button functionality.		
6.	Check Register functionality.				
7.	Check My Wishlist functionality.	6.1	Check if favorite items by the user are presented in the wishlist.		
		6.2	Check remove product functionality.		
		6.3	Check whether is displayed correct message if there are no items on the wishlist.		
8.	Check Checkout functionality.	7.1	Check Place Order functionality.		
		7.2	Check correct info is presented at order details.		
		7.3	Check the delivery address details can be input.		
		7.4	Check printing options of the order details.		
		7.5	Check Select/Options functionality.		
		7.6	Check that user can proceed through a Guest checkout.		
		7.7	Check that final amount to pay is correct, after the price of the products, VAT or other taxes, delivery and any other charges		
		7.8	Check that user can select payment method.		
		7.9	Check that a confirmation mail is sent after user place's an order.		
		7.10	Check when user cancels an order.		
		7.11	Check what happens if user interrupts the checkout process.		
		7.12	Check whether it supports any payment gateway transaction such as Visa, Mastercard, Paypal etc as required by the application.		
9.	Check My account functionality	8.1	Check Dashboard.		
		8.2	Check Orders.		
		8.3	Check Downloads.		
		8.4	Check Addresses.	8.4.1	Check Billing address form.
				8.4.2	Check Shipping address form.

		8.5	Check Account details form.	8.5.1	Check Save address functionality.
		8.6	Check Logout functionality.		
10.	Check Cart functionality.	9.1	Check Add to cart functionality.		
		9.2	Check Clear shopping cart functionality.		
		9.3	Check Update shopping cart functionality.		
		9.4	Check Continue shopping functionality		
		9.5	Check Proceed to checkout functionality.		
		9.6	Check Apply coupon functionality.		
		9.7	Check if products value is summed up correctly when adding in the cart 2 or more products.		
		9.8	Check whether correct message is displayed if there are no products in the cart		
11.	Check Blog functionality	10.1	Check if recent posts on the blog are sorted by date and are presented in that order new – old.		
		10.2	Check different categories are as different pages.		
		10.3	Check Instagram photos are presented correctly.		
		10.4	Check blog archives are sorted out correctly.		
		10.5	Check "Read more" redirects to the correct page.		
		10.6	Check if leave a comment is displaying comments which are already written.		
12.	Check GUI on web application	12.1	Check all the GUI elements for size, position, width, length, and acceptance of characters or numbers.		
		12.2	Check images alignment / clarity.		
		12.3	Check drop down menus work.		
		12.4	Check for broken images.		
		12.5	Check for broken links.		
		12.6	Scroll up button should be enabled only when necessary.		
		12.7	Check if user can navigate the site via keyboard input.		
		12.8	Check how web application handles minimized/maximized/customized window size.		
		12.9	Check if error messages are displayed and highlighted in appropriate manner.		
		12.10	Check for syntax errors.		
		12.11	Check if all pages have titles.		

		12.12	Check if home page button is provided on every page.
13.	Check Mobile version of the web application	13.1	Check if the web application is suited for mobile version use.
		13.2	Check different resolutions.
		13.3	Check if the web application is easy to navigate through a mobile device.
		13.4	Check that the page scrolling scenarios are being enabled in the application as necessary.
		13.5	Check the buttons should have the required size and be suitable to big fingers.
		13.6	Check if the buttons are placed in the same section of the screen to avoid confusion to the end users.
		13.7	Check if the validation for the tapping zoom-in and zoom-out facilities should be enabled
14.	Check Security of web application	14.1	Secure pages should use the HTTPS protocol.
		14.2	Check the effect on application security by deleting the cookies.
		14.3	Cookie information should be stored in encrypted format only.
		14.4	Test by pasting the internal URL directly into the browser address bar without login
		14.5	All transactions, error messages, security breach attempts should get logged in log files somewhere on the webserver.
		14.6	Test if SSL is used for security measures.
		14.7	Page crash should not reveal application or server info. The error page should be displayed for this.
		14.8	Error messages should not reveal any sensitive information.
		14.9	Check session cookie duration and session termination after timeout or logout.
		14.10	Passwords and other sensitive fields should be masked while typing.
		14.11	Check if forgot password functionality is secured with features like temporary password expiry after specified hours and security question is asked before changing or requesting a new password.
		14.12	All credentials should be transferred over an encrypted channel.
15.	Check Performance of the web browser.	15.1	Check performance of the web app on expected user load.
		15.2	Check if web application can endure specific user load for long period of time.
		15.3	Check if site loads under 5 seconds.
		15.4	Check the web application behavior under unexpected user spikes requests.

		15.5	Check response time of the web application.
		15.6	Check behavior on different web browsers.
		15.7	Check web application behavior on different networks.
		15.8	Check the database query execution time.
		15.9	Check CPU and memory usage under peak load conditions.
16.	Check Interface integrity of the web application.	16.1	Check data consistency when editing account details
		16.2	Check if all the database queries are executing correctly, data is retrieved and also updated correctly.

Task 2: Write specific test cases for the registration form and the registration process.

Register functionality			
№	Test Case	Test Data	Expected Result
1.	Check that registration form contains username, email and password input fields.		Containing the required fields.
2.	Check that all required fields are marked with asterisk symbol (*).		
3.	Check if user would be registered entering valid information in the required fields.	Alen a.ecov@abv.bg parola123	User should be registered successfully.
4.	Check if user can register entering only username and email.	Alen a.ecov@abv.bg	User should be prompted with message to enter a password before continuing with the registration form.
5.	Check if user can register entering only username.	Alen	Error message should be displayed
6.	Check if password input field will pop – up message stating if it is a weak/strong password.		When user enters password a prompt message pops up showing based on the password if its weak or strong.

	Check if system correctly corresponds to the weak / strong password.	123 Pragmatic44$!	123 – a pop up should be shown stating "Weak password" Pragmatic44$! – a pop up should be shown stating "Strong password".
7.			
8.	Check if pop up's for weak/strong password are highlighted in the correct colour.	123 Pragmatic44$!	123 – "Weak password" message should be highlighted in red colour. Pragmatic44$! – "Strong password" message should be highlighted in green colour.
9.	Verify if hints messages are presented for every input field.		Hint messages should be displayed when user navigates through input fields stating the requirements for the field he is on.
10.	Check that register button submits data to the server after entering valid information.	Alen a.ecov@abv.bg parola123	Data should be submitted to the server.
11.	Check that you can navigate through input fields using a keyboard.		Navigation with keyboard controls should work.
12.	Check that after registering an automatic reply for registered user is sent to the provided email.		An automated message should be generated from the system and sent to the provided email.
13.	Check that the autogenerated message doesn't end up in user spam directory unless he specified so.		Automated message shouldn't end up in user spam directory.
14.	Check if user can register with already existing email.	Alen a.ecov@abv.bg parola123	Error message should be displayed
15.	Verify if user can register by entering special characters in the username field.	Alen%^&$* a.ecov@abv.bg parola123	Error message should be displayed.
16.	Verify if user can register by entering numeric letters and values in the username field.	Alen44 a.ecov@abv.bg parola123	User should be able to register.

17.	Verify is user can register by username that starts with ".".	.Alen a.ecov@abv.bg parola123	User should not be able to register.
18.	Check if user can copy and paste info from and to the input fields.	Alen a.ecov@abv.bg parola123	User should be able to do copy and paste.
19.	Verify if after registering application redirects the user to the login page.		User should be redirected to a login page so he can enter his credentials.
20.	Check if user can register leaving the input fields blank.		Error message should be displayed.
21.	Verify if the error messages displayed are highlighted.		Error messages should be highlighted.
22.	Verify if the error messages displayed equivalent to the error.		Correct error messages should be displayed in equivalence with the error.
23.	Check if user can register with twelve characters password.	Parolaparola	User should be successfully registered.
24.	Check if user can register with 11 characters password	Parolaparola$	Error message should be displayed.
25.	Check if user can register by using space characters as a password.		Error message should be displayed.
26.	Verify that the cursor should change according to the fields.		While using the mouse and clicking across the input fields the cursor should change according to them.
27.	Check if user can register by using an email without a domain.	Alen Example@ 123	Error message should be displayed.
28.	Check if user can register by using an email without a @.	Alen Examplegmail.com 123	Error message should be displayed.
29.	Check if user can register by using an email without a ".".	Alen Example@gmailcom 123	Error message should be displayed.
30.	Verify that you can register with an email that contains letters and numbers.	Alen Example44@gmail.com 123	User should be able to register.
31.	Check if user can register with special characters only as a name of the email address.	Alen @#@$@$@@gmail.com 123	Error message should be displayed.

32.	Check if user can register with an email address with "-" after the @	Alen a.ecov@-abv.bg parola123	Error message should be displayed.
33.	Check if user can register with an email address with ".." after domain.	Alen a.ecov@abv..bg parola123	Error message should be displayed.
34.	Check if user can register with a "." as a start of the email address.	Alen .a.ecov@abv..bg parola123	Error message should be displayed.
35.	Check if user can register by using an ip address as a domain in the address field.	Alen .a.ecov@111.222.333.444 parola123	Error message should be displayed.
36.	Verify that when user enters his password in the password field it's masked.	parola123	User password should be masked.
37.	Check if successful message is shown after user is registered.		A message should be shown after user is registered.
38.	Check if username input field remembers previously entered information.	Alen a.ecov@abv.bg parola123	The username input field remembers previously entered information.
39.	Check if enter keyboard key works as register button.		Register button should be pressed when user pushes enter keyboard key.
40.	Check if user goes back a page after he is successfully registered that a document expired page is shown.		An document expired page is shown.
41.	Check if "Register" button is active if less than 12 characters are provided for password and "Medium" password strength rule is met.	Iam@strongp	"Register" button should be unavailable.
42.	Check if "Register" button is active if 12 or more characters are provided for password and "Medium" password strength rule is met.	Iam@strongpwd	"Register" button should be available.
43.	Check if "Register" button is active if 12 or more characters are provided for password and "Medium" password strength rule is not met.	aaaaaaaaaaaa	"Register" button should be unavailable.

44.	Verify that when account is created user details are available when logged into the account.	Alen a.ecov@abv.bg parola123	User details should be available into the user account.
45.	Check that the user can log into the site using valid information after registration.	Alen parola123	User should be logged into the system.
46.	Check if user account is created by filling his information through guest checkout without selecting the "CREATE AN ACCOUNT?" checkbox.		User account should not be created.
47.	Check if user account is created by filling his information through guest checkout with selecting the "CREATE AN ACCOUNT?" checkbox.		User account should be created.
48.	Check what happens when a user fills the fields with valid information and presses "Register" and connection is timed out.		User should not be registered.
49.	Check if fields save information after user refreshes the registration form page.		Input fields must be reset after a page refresh.
50.	Check if the registration form is secured by security protocol.		The page should be in https mode.
51.	Check if the password field suggests an automatically generated secured password.	XU6ZEVaZcYSc6ct	The password field should suggest a generated secured password.
52.	Check if the automatically generated secured password corresponds to the requirements for "Strong" password.	XU6ZEVaZcYSc6ct	Informative message should be shown that the password is strong.
53.	Check if the automatically generated secured password is automatically entered in the password input field.	XU6ZEVaZcYSc6ct	The generated secured password should be automatically entered in the password input field.

54.	Check if the automatically generated secured password is masked when selected and automatically entered in the password field.	XU6ZEVaZcYSc6ct	The password must be masked.
55.	Check if different secured password are generated every time you are on the page.		Different secured password should be generated every time a user enters the page.
56.	Check username field if it accepts more than 20 characters.	MoreThan20charactersM	User should not be allowed to input username with more than 20 characters. Error message should be displayed.
57.	Check username field if it accepts exact 20 characters.	MoreThan20characters	User should be allowed with username with 20 characters.

Note: There are quite some few bugs / unfinished worked, but I'm not reporting them because that is not the aim of the assigned task.