Testing Project for Opencart.com

The scope of the final project for ITF Manual Testing Course is to use all gained knowledge throught the course and apply them in practice, using a live application

Application under test: **OpenCart**
Tools used: Jira, Zephyr Squad.

Functional specifications:

The below stories were created in Jira and describe the functional specifications of the "Search Bar", "Laptops&Notebooks" and " Extras: Purchase a Gift Certificate: modules, for which the final project is performed upon.

Type	Key	Summary	Priority	Status Category	
▯	AD-55	As a client I want to be able to click on the "Continue" Button	= Medium	DONE	•••
▯	AD-53	As a user I want to be able to click on the check box to accept the agreement statement	= Medium	DONE	•••
▯	AD-51	As a customer I want to write the amount I chose in the "Amount" Box	= Medium	DONE	•••
▯	AD-49	As a customer I want to write a text in the "Message Box"	= Medium	DONE	•••
▯	AD-47	As a client I want to be able to choose a Gift Certificate Theme	= Medium	DONE	•••
▯	AD-44	As a use I want to be able to put my email in "Your E-mail" field	= Medium	DONE	•••
▯	AD-41	As a user I want to be able to fill in the Your Name box	= Medium	DONE	•••
▯	AD-39	As a customer I want to put in the Recipient's e-mail	= Medium	DONE	•••
▯	AD-36	As a user I want to fill in the Recipient's Name	= Medium	DONE	•••
▯	AD-26	GUI Testing of Show all Laptops&Notebooks-Design and Functionality	= Medium	DONE	•••
▯	AD-24	As a customer I want to be able to use the Show Section to display how many items I want	= Medium	DONE	•••
▯	AD-22	As a customer I want to be able to use Sort By section to help me in the search	= Medium	DONE	•••
▯	AD-17	As a user I want to be able to use Product Compare, List and Grid	= Medium	DONE	•••
▯	AD-12	As a customer I want to use the Search bar to find products	= Medium	DONE	•••

Here you can find the release that was created for this project:

Releases

AD-11 Search Bar Responsiveness

AD-12 As a customer I want to use the Search bar to find products		DONE
AD-57 Search Bar Error- the search cannot be performed		DONE

AD-16 Laptops&Notebooks-Show all Laptops&Notebooks page

AD-17 As a user I want to be able to use Product Compare, List and Grid	DONE
AD-22 As a customer I want to be able to use Sort By section to help me in the search	DONE
AD-24 As a customer I want to be able to use the Show Section to display how many items I want	DONE
AD-26 GUI Testing of Show all Laptops&Notebooks-Design and Functionality	DONE
AD-27 GUI-Design compliance of the page Show All Laptops&Notebooks	DONE
AD-30 Word written incorrectly in the text	DONE
AD-31 Abbreviation of an word when not necessary in the last sentence	DONE

AD-35 Extras/Purchase a Gift Certificate

AD-36 As a user I want to fill in the Recipient's Name	DONE
AD-39 As a customer I want to put in the Recipient's e-mail	DONE
AD-41 As a user I want to be able to fill in the Your Name box	DONE
AD-44 As a use I want to be able to put my email in "Your E-mail" field	DONE
AD-47 As a client I want to be able to choose a Gift Certificate Theme	DONE
AD-49 As a customer I want to write a text in the "Message Box"	DONE
AD-51 As a customer I want to write the amount I chose in the "Amount" Box	DONE
AD-53 As a user I want to be able to click on the check box to accept the agreement statement	DONE
AD-55 As a client I want to be able to click on the "Continue" Button	DONE
AD-58 The "Your name" box accepts negative inputs-Suggestions	DONE
AD-59 "Recipient's Name" box-Suggestions	DONE

+ Create Epic

Testing process

The test process was performed based on the standard test process as described below.

1.1 Test planning

The Test Plan is designed to describe all details of testing for the Search Bar, Laptops&Notebooks and Extras: Purchase a Gift Certificate modules from the Opencart Demo application.
The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan. The test plan that was created for this project can be found here (

[https://docs.google.com/document/d/1dmDYsLbTbX8OqOLT9DObeED9qfx1ScolIM UKgqpKdFo/edit](https://docs.google.com/document/d/1dmDYsLbTbX8OqOLT9DObeED9qfx1ScolIMUKgqpKdFo/edit))

1.1.1. Roles assigned to the project and persons allocated

- Project manager- Andrei Cioban
- Product owner- Raluca Ghenta
- Software developer-Viorel Ioan
- QA Engineer- Ioan Pelin
- Tester- Adela Melinte

1.1.2 Entry criteria defined

- Test environment is completed and working
- Smoke testing passed
- Permissions given
- Business requirements written by the analyst are completed and available
- Roles and responsibilities divided and acknowledged
- Projects risks identified and dealt with
- Deadlines established
- Team is informed about the testing process

1.1.3 Exit criteria defined

- 95% tests passed
- No critical issues with opened status
- All tests with a higher risk were completed
- The deadline has been reached
- The budget has been reached
- Update test are 100% passed
- All defects have been documented and communicated to stakeholders

1.1.4 Test scope

Tests in scope:

Functional (smoke testing, positive, negative), non-functional testing (usability testing, performance testing - stress, load, volume, spike), portability tests, GUI and maintainability tests will be performed during the testing. In the end we will retest and also do a regression testing.

Tests not in scope:

Out of scope will be Automation Testing.

Also the rest of the other modules with the exception of Search Bar, Laptops and Notebooks and Extras (Purchase a Gift Card) are out of scope.

1.1.5 Risks detected

Project risks:

- Not enough time allocated to finish all the tests
- QA team does not enough members / holiday season
- Lack of knowledge with the areas tested

- Changes within the management

Product risks:
- Stability risks
- Not supported on all browsers
- Website impacted by stress conditions

1.1.6 Evaluating entry criteria

The entry criteria defined in the Test Planning phase have been achieved and the test process can continue.

1.2 Test Monitoring and Control

Test Monitoring and Control was done almost on a daily basis with periodic reports. Based on these reports we implemented new tests and saw what needs to be changed.

Projects / Adela Melinte_TM2 / Test Summary

Test Summary

Total Tests	Total Unexecuted	Total Executed
23	0	23

TESTS BY VERSIONS

Search

Name	Tests
Unscheduled	0
OpenCart-version1.0	23

Showing 1 - 2 of 2   Prev   1 of 1   Next

TESTS BY COMPONENTS

Search

Name	Tests
No Component	23

Showing 1 - 1 of 1   Prev   1 of 1   Next

TESTS BY LABELS

Search

Name	Tests
No Label	23
Account	0
Administration	0
"BCC,"	0
BDD_Feature	0
CC	0

Projects / Project Adela Melinte_TM2 / Test Metrics

Test Metrics for Project Adela Melinte_TM2

All Versions   Past 3 mo...   Auto Refresh

These are auto-generated test metrics for a project. If you want to create customized metrics and display them in a dashboard, click here.

Daily Test Execution Progress

● PASS (15) ● FAIL (2)   Zoom out

Test Executions By Test Cycle
● Extras/Purchase a Gift Card (12)

Extras/Purchase...
100.00%

Test Executions By Tester
● IT Factory (12)

IT Factory

1.3 Test Analysis

The testing process will be executed based on the application requirements.
The following test conditions were found:

Projects / Adela Melinte_TM2

Issues

Share ▾   Export issues ▾   Go to all issues   LIST VIEW ≣   DETAIL VIEW ≣☰   •••

Search issues 🔍   Project = ▾ Adela Melinte_TM2 ▾   Type = ▾ Test ▾   Status ▾   Assignee ▾   More +   Reset   Save filter   BASIC JQL

Type	Key	Summary	Priority	Status Category	
📄	AD-56	Check if the user can click on "Continue" button	≡ Medium	DONE	•••
📄	AD-54	Checking if you can click on "I understand that gift certificates are non-refundable"	≡ Medium	DONE	•••
📄	AD-52	Check if the user can put the amount he wants in the "Amount" Box	≡ Medium	DONE	•••
📄	AD-50	Test if the customer can leave a message in the "Message Box"	≡ Medium	DONE	•••
📄	AD-48	Checking the user can choose an option from "Gift Certificate Theme"	≡ Medium	DONE	•••
📄	AD-46	Checking if the user can put negative inputs in the "Your E-mail" field	≡ Medium	DONE	•••
📄	AD-45	Test if the user can put his email in the "Your E-mail" field	≡ Medium	DONE	•••
📄	AD-43	Check if the user can put his name with negative inputs in the "Your Name" box	≡ Medium	DONE	•••
📄	AD-42	See if the customer can type his name in the "Your name" box	≡ Medium	DONE	•••
📄	AD-40	Checking if the client can type an email in the "Recipient's e-mail" field	≡ Medium	DONE	•••
📄	AD-38	Testing if the user is able to put in negative inputs in the |Recipient's Name" box	≡ Medium	DONE	•••
📄	AD-37	Testing if the user can write a name in the "Recipient's Name" field	≡ Medium	DONE	•••
📄	AD-34	Test the functionality of the second part page, if all the clickable items function as intended	≡ Medium	DONE	•••
📄	AD-33	Checking if the design of the second part page fits the requirements	≡ Medium	DONE	•••
📄	AD-29	Check if the design for Header 1 and the text under it is according to specification	≡ Medium	DONE	•••
📄	AD-25	Check that the user can click on the "Show Section" and the drop down menu opens	≡ Medium	DONE	•••
📄	AD-23	Check if the client can click and use the "Sort By" section	≡ Medium	DONE	•••
📄	AD-21	Test to see if the user can use List and Grid options as intended	≡ Medium	DONE	•••
📄	AD-20	Test to see if the items remain in Product Compare section and the user can return to it	≡ Medium	DONE	•••
📄	AD-19	Check that the customer can click on "Product Compare" with no items selected, the page opens	≡ Medium	DONE	•••
📄	AD-18	Testing to see if the Product Compare buttons works and takes us to another page when the user clicks on it	≡ Medium	DONE	•••
📄	AD-15	Check to see if the system gives the user suggestions after the first letter was typed	≡ Medium	DONE	•••
📄	AD-14	Check if the user types the word "HP" in the Search Bar all items containing that word will appear	≡ Medium	DONE	•••

1-23 of 23 ↻   ‹ 1 ›

1.4 Test Design

Functional test cases were created in Zephyr Squad based on the analysis of the specifications. The test cases can be accessed here (
https://itfclasses.atlassian.net/projects/AD?selectedItem=com.thed.zephyr.je__test-cases)
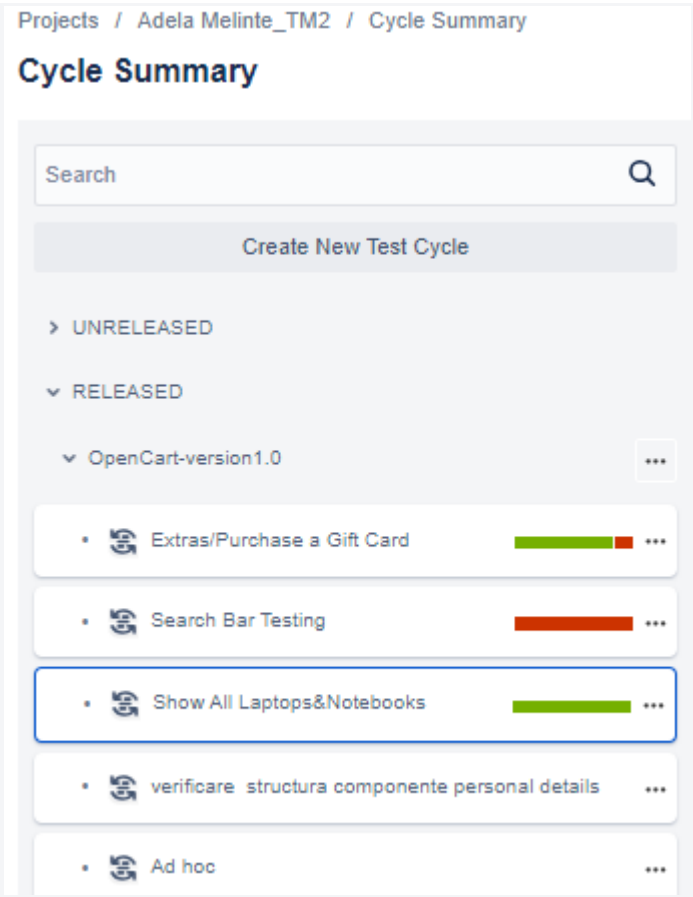
1.5 Test Implementation

The following elements are needed to be ready before the test execution phase begins:

(inserati lista de elemente care sunt evaluate in etapa de implementare)

1.6. Test Execution

Test cases are executed on the created test Cycle summary:

Bugs have been created based on the failed tests. The complete bug reports can be found here:

The following is a summary of the bugs that have been found

Type	Key	Summary	Priority	Status Category
🟥	AD-59	"Recipient's Name" box-Suggestions	∨ Low	DONE
🟥	AD-58	The "Your name" box accepts negative inputs-Suggestions	∨ Low	DONE
🟥	AD-31	Abbreviation of an word when not necessary in the last sentence	= Medium	DONE
🟥	AD-30	Word written incorrectly in the text	= Medium	DONE
🟥	AD-57	Search Bar Error- the search cannot be performed	∧ High	DONE

1-5 of 5

Full regression testing is needed on the impacted areas after the bugs are fixed and retesting will be done for every functionality that was previously failed.

1.7 Test Completion As the Exit criteria were met and satisfied as mentioned in the appropriate section, this feature is suggested to 'Go Live' by the Testing team

The traceability matrix was generated and can be found here:

Projects / Adela Melinte_TM2 / Traceability Matrix

Traceability Matrix ❓

Report Type ▾   Export

Type: All ▾   Versions: All ▾   Cycles: All ▾   Folders: All ▾   Execution Status: All ▾
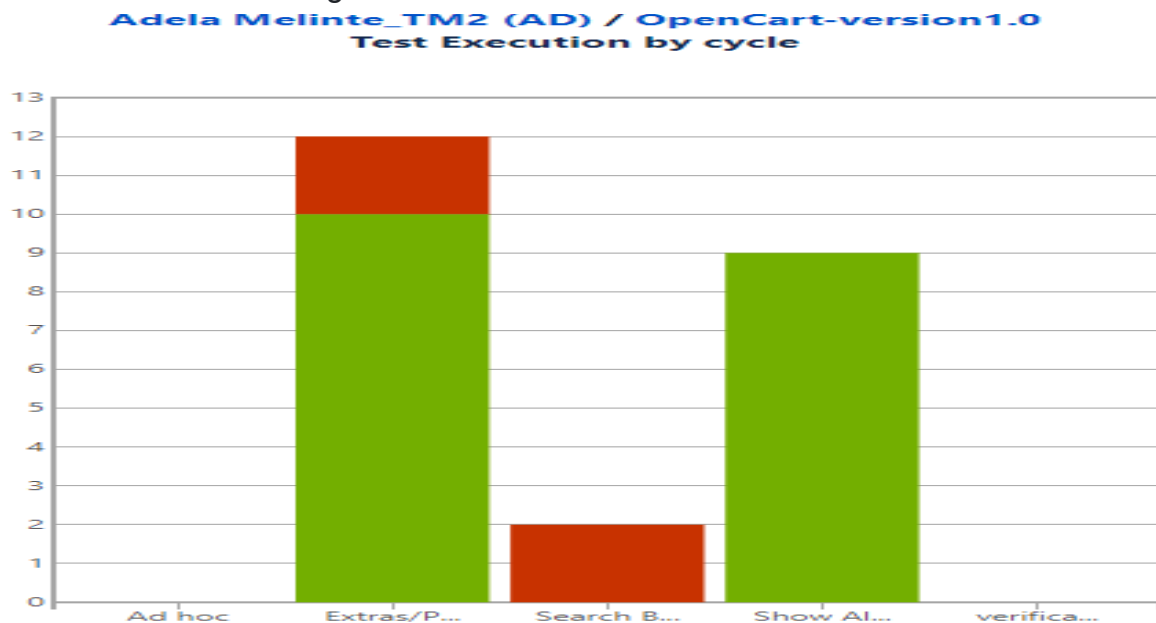
Requirements without tests   Executions without defects   Executions with defects

Issues Showing of 1-26 of 26   Expand All

Requirements		Tests	Executions		Defects	
AD-59 "Recipient's Name" box-Suggestions	1 DEFECTS	AD-38 Testing if the user is able to put in negative inputs in the |...	Extras/Purchase a Gift Card	FAIL	AD-59 "Recipient's Name" box-Suggestions	DONE
AD-58 The "Your name" box accepts negative inputs-Suggestions	1 DEFECTS	AD-43 Check if the user can put his name with negative inputs in ...	Extras/Purchase a Gift Card	FAIL	AD-58 The "Your name" box accepts negative inputs-Suggestions	DONE
AD-57 Search Bar Error- the search cannot be performed	1 DEFECTS	AD-14 Check if the user types the word "HP" in the Search Bar al...	Search Bar Testing	FAIL	AD-57 Search Bar Error- the search cannot be performed	STEP DONE
AD-55 As a client I want to be able to click on the "Continue" Button		AD-56 Check if the user can click on "Continue" button	Extras/Purchase a Gift Card	PASS	None	
AD-53 As a user I want to be able to click on the check box to ac...		AD-54 Checking if you can click on "I understand that gift certifica...	Extras/Purchase a Gift Card	PASS	None	
AD-51 As a customer I want to write the amount I chose in the "A...		AD-52 Check if the user can put the amount he wants in the "Am...	Extras/Purchase a Gift Card	PASS	None	
AD-49 As a customer I want to write a text in the "Message Box"		AD-50 Test if the customer can leave a message in the "Message...	Extras/Purchase a Gift Card	PASS	None	
AD-47 As a client I want to be able to choose a Gift Certificate Th...		AD-48 Checking the user can choose an option from "Gift Certific...	Extras/Purchase a Gift Card	PASS	None	
AD-44 As a use I want to be able to put my email in "Your E-mail'...		2 Tests	2 Executions		None	
AD-41 As a user I want to be able to fill in the Your Name box	1 DEFECTS	2 Tests	2 Executions		AD-58 The "Your name" box accepts negative inputs-Suggestions	DONE
AD-39 As a customer I want to put in the Recipient's e-mail		AD-40 Checking if the client can type an email in the "Recipient's...	Extras/Purchase a Gift Card	PASS	None	
AD-36 As a user I want to fill in the Recipient's Name	1 DEFECTS	2 Tests	2 Executions		AD-59 "Recipient's Name" box-Suggestions	DONE
AD-35 Extras/Purchase a Gift Certificate		None	None		None	
AD-32 Design and Functionality of the second part of the page		2 Tests	2 Executions		None	
AD-31 Abbreviation of an word when not necessary in the last se...	2 DEFECTS	AD-29 Check if the design for Header 1 and the text under it is ac...	Show All Laptops&Notebooks	PASS	2 Defects	
AD-30 Word written incorrectly in the text	2 DEFECTS	AD-29 Check if the design for Header 1 and the text under it is ac...	Show All Laptops&Notebooks	PASS	2 Defects	
AD-28 Page Design for Header 1 and text under it	2 DEFECTS	AD-29 Check if the design for Header 1 and the text under it is ac...	Show All Laptops&Notebooks	PASS	2 Defects	
AD-27 GUI-Design compliance of the page Show All Laptops&No...		None	None		None	
AD-26 GUI Testing of Show all Laptops&Notebooks-Design and ...		None	None		None	
AD-24 As a customer I want to be able to use the Show Section t...		AD-25 Check that the user can click on the "Show Section" and t...	Show All Laptops&Notebooks	PASS	None	
AD-22 As a customer I want to be able to use Sort By section to ...		AD-23 Check if the client can click and use the "Sort By" section	Show All Laptops&Notebooks	PASS	None	
AD-17 As a user I want to be able to use Product Compare, List ...		4 Tests	4 Executions		None	
AD-16 Laptops&Notebooks-Show all Laptops&Notebooks page		None	None		None	
AD-13 Type a word or letter and see if it gives us all the results re...	1 DEFECTS	AD-15 Check to see if the system gives the user suggestions afte...	Search Bar Testing	FAIL	AD-57 Search Bar Error- the search cannot be performed	STEP DONE
AD-12 As a customer I want to use the Search bar to find products	1 DEFECTS	AD-14 Check if the user types the word "HP" in the Search Bar al...	Search Bar Testing	FAIL	AD-57 Search Bar Error- the search cannot be performed	STEP DONE
AD-11 Search Bar Responsiveness		None	None		None	

Test execution chart was generated and can be found below.

The final report shows that a number (2) tests have failed of a total of (23)
A number of (5) total bugs were found, from which the priority is: 1 are high, 2 are medium and 2 low.

All of the 23 tests were executed and approximately 95% of the demands have been covered. Out of all the bugs found, only one is recommended to be fixed before the site is launched (the Search Bar). The rest can be fixed later on and it will not affect the site or the utilization of it.

In conclusion, the Opencart is ready to launch and it will be useful for those who are looking to buy or change a laptop and not only.