Course: ST62
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E-Commerce Project Report

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PREFACE

To beginning with, we would like to express our sincere gratitude to all the teachers and staff in IVIETTECH center for giving us the opportunity to learn, research, and practice about Software Testing.

In addition, we also would like to thank our instructor, Mr. Le Tuan Anh and Mr. Le Duc Phu, whose guidance, support and suggestion with enthusiasm have enabled us to complete our project on time.

This report is the result of researching the project E-Commerce system. It is conducted during the period between December 2022 and January 2023. Doing this project helped us to enhance our knowledge regarding manual testing and also improve English level. Additionally, through this project we come to know about the importance of teamwork. However, with limited knowledge and experience, we look forward to receiving suggestions from the teacher and my classmate, that will help us to improve our skills as well as develop our careers in the future.

Thanks for supporting!

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1. Introduce

This test summary report is a document which contains all the details of the testing process and final test results of the project E-Commerce. For the purpose of the verifying the quality of this website and ensuring the website is released without any defect.

1.1. Test Objective

The e-commerce system allows users to operate through the internet such as: searching for electronic products, placing orders, registering new accounts and so on.

The main goal of E-Commerce systems is to provide customers with a convenient and efficient way to search and purchase online. This includes providing an easy-to-use interface, secure payment processing, and accessing up-to-date product information. Therefore, its ability to dodge the latest cyber-threats is something testers need to examine for ensuring business performance.

For above reasons, the main purpose of testing E-Commerce website is to ensure that all the activities and functionalities of a banking software run smoothly with no errors and it remains protected.

Overall, it appears that these objectives are being met by most E-Commerce systems today.

1.2. Scope

1.2.1. In Scope

All the features of the website E-Commerce which were defined in requirements need to be tested.

Module Name	Applicable Roles	Description
Search for Product (Tool)	Customer	The function allows the user to search products by Search Tool when user input search text to search field
Search for Product (Category)		The function allows the user to search for products by a set of many conditions (Kind of product, manufactory, price).
View Product Management	Sale Manager / Administrator	The function allows admin to see the information of product
Add product		The function allows admin to add new product

1.2.2. Out of scope

These features are not to be tested because there are not enough members for testing, so we prioritize some major tasks in advance.

- Database
- Security
- Performance
- Functional:
  - ➢ Customer side:
    - ▪ Session Manage:
      - o User Registration
      - o Login
      - o Logout
    - ▪ Shopping
      - o Search Products
      - o View Product Detail
      - o Update Shopping Cart/Clear Item
      - o Manage Shopping Cart
      - o Checkout
  - ➢ Administration side:
    - ▪ Manage Orders
      - o Search Orders
      - o Search Orders by Date
      - o Search All Pending Orders
      - o Credit Report
      - o Orders Summary Report
    - ▪ Manage Customers
      - o Search All Customer
      - o Search New Customer by Date

2. Planning

2.1. Testing Level

In the project E-Commerce, there are 3 levels of testing that should be conducted:

- Smoke Testing
- Integration Testing
- System Testing

2.2. Role

Member	Role	Tasks
Huynh Thi Minh Anh	Tester	- Review and analyze SRS - Review and update Test plan - Design and write Testcases - Review Testcases - Execute tests, Log bug - Report

2.3. Members and Task detail

Member	Test Function

Huynh Thi Minh Anh	- Customer:
	    o Search for Product (Tool)
	    o Search for Product (Category)
	- Sale Manager / Administrator:
	    o View Product Management
	    o Add product

2.4. Schedule and Estimation

No.	Task	Days	Duration
1	Write Test plan and Review Test plan	3	06th December ~ 08th December
2	Read and analysis SRS; list down backlog	3	09th December ~ 11th December
3	Design and write Testcase	27	12th December ~ 10th January
4	Review Testcase and Update (if any)	4	11th January ~ 14th January
5	Execute tests, Log Bugs, Report	8	15th January ~ 22th January
6	Test summary report	3	22th January ~ 24th January
Total		48	

2.5. Test Environment

User	Device	Version	Operating system	Browser	Network
Anh Huynh	Laptop Dell	Dell Latitude E5470 Intel(R) Core (TM) i5-6300U CPU @ 2.40GHz 2.50 GHz	Window 10	Chrome Version 109.0.5414.120 (Official Build) (64-bit)	Wi-Fi 2.4GHz

2.6. Tools

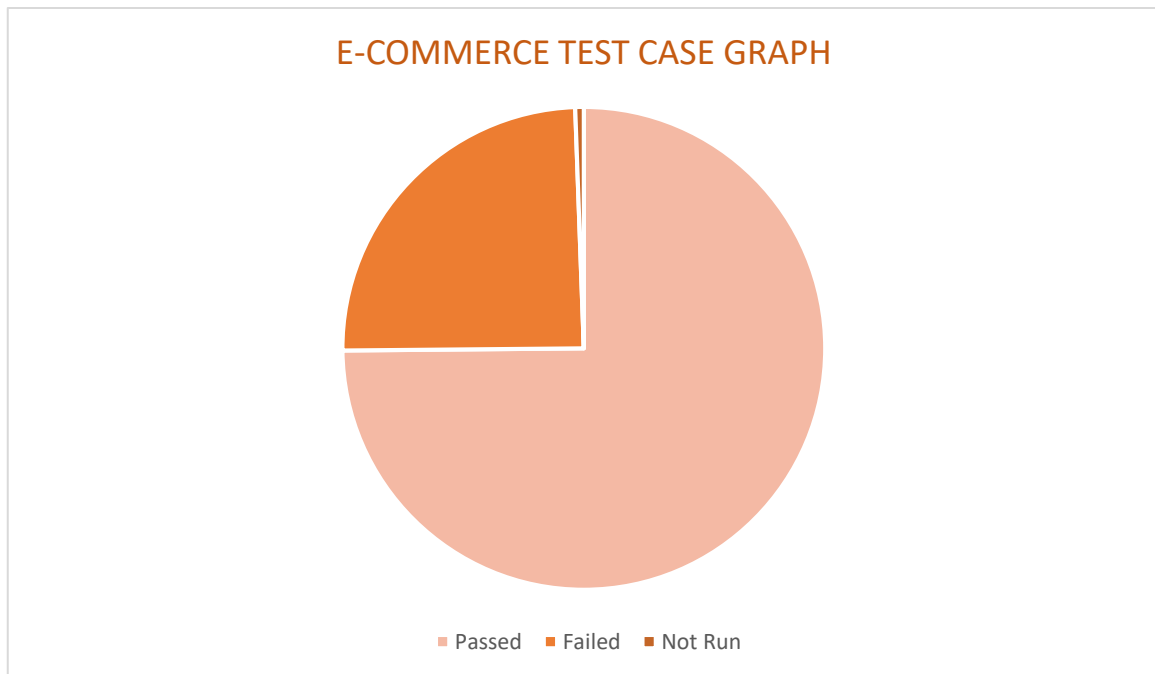Using Google Doc to manage test plan
Using Google Sheet to manage testcases and Bugs report
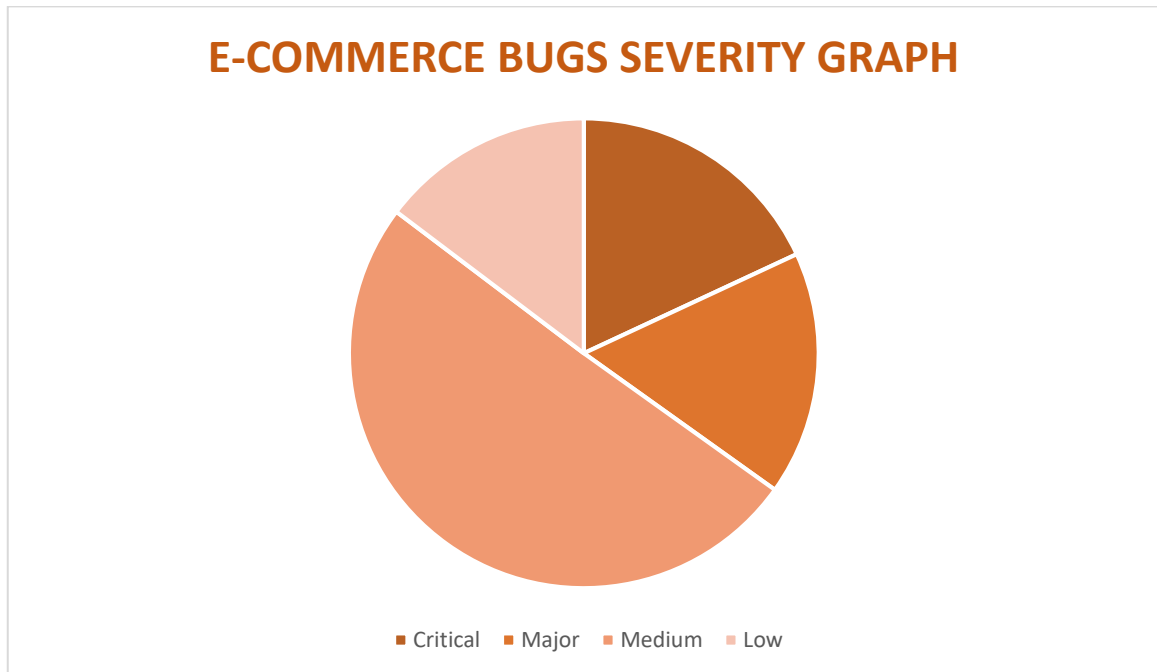
3. Test Summary

   3.1. Testcase Information

Portal	Main Function	Detail Function	TCs planned	TCs Executed	TCs Passed	TCs Failed	TCs Not Run
Customer	Shopping	Search for Product (Tool)	16	16	14	2	
		Search for Product (Category)	27	27	8	19	
Sale Manager /Administrator	Manage Product	View Product Management	44	43	41	2	1
		Add product	88	88	68	21	
Total			**175**	**174**	**131**	**44**	**1**

The Owner is Huynh Thi Minh Anh

E-COMMERCE TEST CASE GRAPH

■ Passed ■ Failed ■ Not Run

3.2. Bugs Information

Function	Critical	Major	Medium	Low	Total
Search for Product (Tool)		1	1		2
Search for Product (Category)	3	7	4	5	19
View Product Management	1			1	2
Add product			20	1	21
Total	**4**	**8**	**25**	**7**	**44**

E-COMMERCE BUGS SEVERITY GRAPH

■ Critical ■ Major ■ Medium ■ Low

4. Exit Criteria

- ➢ All test cases should be executed
- ➢ All defects in Critical, Major, Medium severity should be verified and closed
- ➢ Fix all major bugs
- ➢ The product works well, is stable, with few bugs

5. Conclusion

5.1. Lessons Learned

We have learned:
- ➢ How to write Test Plan
- ➢ How to write Test case, Bug Report
- ➢ How to work with testing process
- ➢ How to work with Agile model
- ➢ Team-work: discuss, assign task, review test case,…
- ➢ Get used to Daily meeting with Mr. Le Tuan Anh

5.2. Difficulty

Besides that, we encountered difficulties such as:
- ➢ The Implementation time is short
- ➢ The English skill of the team is not good enough
- ➢ Team member not have much experience
- ➢ The Specification is not clear

However, the team has tried to come up with solutions to solve the problem encountered.

6. Reference Documents

Document are provided by Iviettech center

- • Software Requirements Specification for E-Commerce System Version 1.2
- • Huong dan su dung eCommerce - 30 Sep 2021
- • eCommerce system Design