Task 2.

1.Test Strategy

1.1 Test type

Black box or white box test

1.2 Scope of testing

1.2.1

Module name	Applicable roles	Description
Display product	Customer	A customer can view any product that available to buy, with all information about that product (price, status…)
Online Payment	Customer Manager	A customer can pay their bill via online service Manager can check all transfer action history
Shopping cart	Customer	A customer (registed or unregistered) can choose one or more product, add to his cart and choose another. Finally, he can pay it all
Register	Manager Customer	A customer can register an account with his information, some information (email, phone number) must be verified before registration success Manager can manage all registered account
Login	Customer	Customer can login to buy product, get special offers (voucher, sale…) and edit his own information (must be verified)
Manage product	Manager	Manager can add, view, update or delete any product
Manage account	Manager	Similar to product
Search product	Customer	Customer can find product by name, cost, status…..

1.2.2 Feature not to be testing

These features are not be tested because they are not included in the software requirement

- Website interfaces
- Database
- Network security
- Admin interfaces

1.3 Risk and issues

Risk	Mitigation
Lack of human resources	Using outside employee
Employee has no experience and skills	Training to improve the expertise of each member
Manager has no manage and leadership skills	Looking for a skillful manager
Not enough time to test all modules	Create testing priorities, important module will be tested first
The cost to complete the project exceeds the original estimate	Make budget forecasts before work and keep watching progress
Functions are not insure because customer change requirement	Discuss with customer before start working

1.4 Test logistics

1.4.1 Who will test?

Company can use their own human resources. Outsourced personnel is also good choice for small company

1.4.2 When will test occur?
The tester will start the test execution when all the following inputs are ready
- Software is available for testing
- Test Specification is created
- Test Environment is built
- Enough human resource for testing

2 Test Objective
The test objectives are to verify the functionality of Amazon website, the project should focus on testing the e-commerce operation such as shopping cart, auction product...etc. to guarantee all these operation can work normally in real business environment

3.Test criteria
3.1 Suspension Criteria :
Tester reports that more than 50% of tests fail and there are many bugs that need fixing. The project should stop testing. Get back the project for developers. Developers need to fix or fix them for testing purposes to become smooth.

3.2 Exit Criteria :
Specifies the criteria that denote a successful completion of a test phase
- Run rate is mandatory to be 100% unless a clear reason is given.
- Pass rate is 80%, achieving the pass rate is mandatory
.

4. Resource Planning
4.1 System Resource:

| No	Resources	Descriptions
1.	Server	Database server installs Oracle Database 12c
2.	Test tool	Develop a test tool or use built-in tools like SOA CloudTest, BlazeMeter, etc.
3.	Network	Set up a gigabit LAN and an internet speed of at least 20Mb/s
4.	Computer	Least 4 computer run windows 10, Ram 32GB, CPU Core i7 Haswell, Hard Disk 1TB SSD.

4.2 Human Resource:

No	Member	Tasks
1.	Test Manager	Manage the whole project Clearly define the direction of the project Use human resources appropriately
2.	Test	Identify and describe the techniques, software or tools used in testing Perform tests to evaluate test methods. And report back the test results
3.	Developer in Test	Perform test case, test program, ...

4.	Test Administrator	Ensure the test environment is maintained and managed in the best way
		Prepare and implement a checklist of modules to test
		Support tester using test environment to test
5.	SQA members	Responsible for product quality assurance
		Check that the testing process meets the requirements set out

5.
Test Environment:
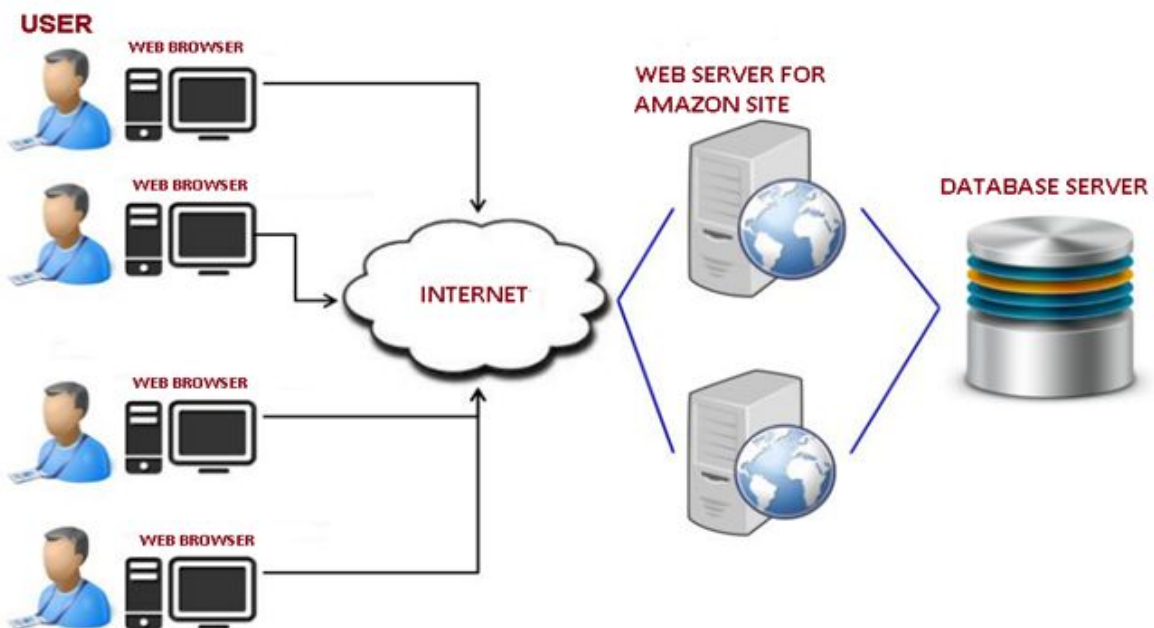
6. Schedule & Estimation:
6.1 All project task and estimation:

Tasks	Members	Estimate effort

Create the test specification	Test Designer	160 man-hour
Perform Test Execution	Tester	70 man-hour
Test Report	Tester	10 man-hour
Test Delivery		30 man-hour
Total		270 man-hour

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TEST DELIVERABLES

Test deliverables are provided as below

7.1

Before testing phase

- Test plans document.
- Test cases documents
- Test Design specifications.

7.2

During the testing

- Test Tool
- Simulators.
- Test Data
- Test Trace-ability Matrix
- Error logs and execution logs.

7.3

After the testing cycles is over

- Test Results/reports
- Defect Report
- Installation/ Test procedures guidelines
- Release notes

II. A Software Test Description (STD):

Introduce :

This document is the software test description of the Amazon website software development project. It contains the description of tests list in software test plan ref. These tests are executed during Amazon website integration and verification:

- Software Integration tests,
- Software Verification tests.

    1. Test preparation

1.1.1 Hardware and Software preparation

No	Resources	Descriptions
1.	Server	Database server installs Oracle Database 12c
2.	Test tool	Develop a test tool or use built-in tools like SOA CloudTest, BlazeMeter, etc.
3.	Network	Set up a gigabit LAN and an internet speed of at least 60Mb/s
4.	Computer	Least 4 computer run windows 10, Ram 32GB, CPU Core i7 Haswell, Hard Disk 1TB SSD.

1.1.2 Software preparation

2. Test description

2.1 Test case 1 : Register

Test ID	AMAZON-T0001
Test description	Register
Initial conditions	Username and Password are in database
Tests inputs	Input username and password into textbox of sign in page
Expected results and criteria	Sign in successfully

Test Procedure
Access to the register page

amazon

Create account

Your name

Email

Password

At least 6 characters

Re-enter password

Create your Amazon account

By creating an account, you agree to Amazon's
Conditions of Use and Privacy Notice.

Already have an account? Sign in ›

Conditions of Use   Privacy Notice   Help

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Step 1 :
Input username
Input email
Input password
Step 2 :
Click "Create your Amazon account" button.

If username, password and email are available, one notification will appear : "Successfully register"

If username or password or email are not available, register will fail and the reason will be display

2.2 Test case 2 : Login

Test ID	AMAZON-T0002
Test description	Login
Initial conditions	Username and Password are in database
Tests inputs	Username, password

Expected results and criteria	Sign in successfully

Step 1 :
Input username
Input password

Step 2 :
Press "Sign in" button

If username and password are match, we will go back to the homepage and it will show up as picture below
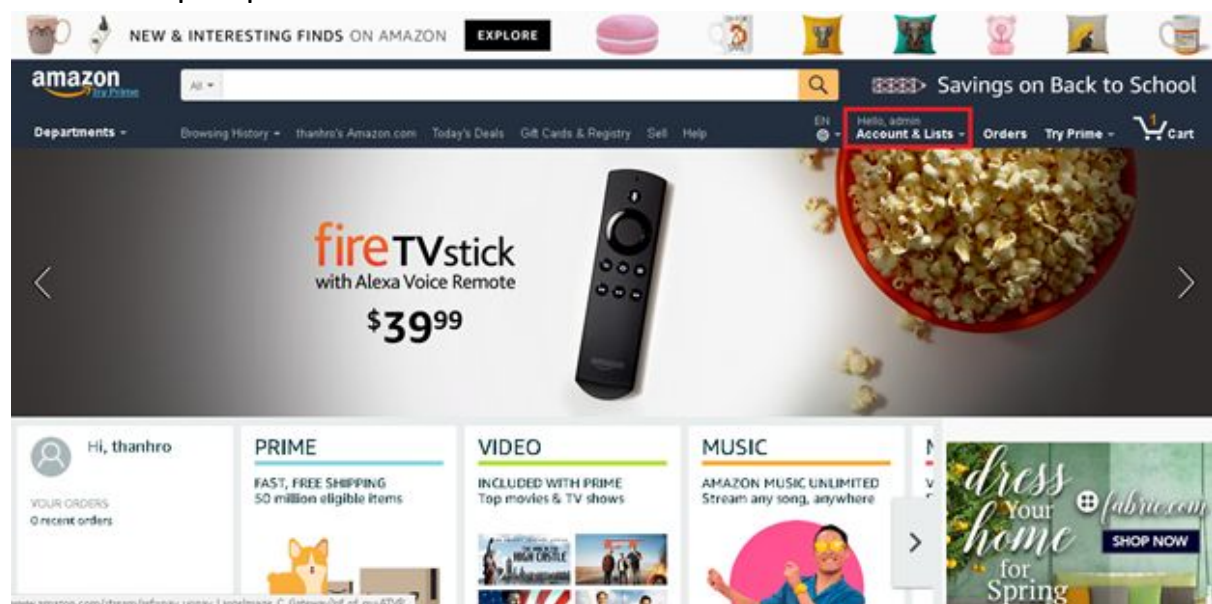
If username and password are not match, it will display like picture below

amazon

⚠ **There was a problem**
Your password is incorrect

Sign in

Email (phone for mobile accounts)

rdrfgggh@gmail.com

Password   Forgot your password?

Sign in

☐ Keep me signed in. Details ▼

─────────── New to Amazon? ───────────

Create your Amazon account

Conditions of Use   Privacy Notice   Help

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2.3 Test case 3 : Searching product

Test ID	AMAZON-T0003
Test description	Search
Initial conditions	Already have database of product
Tests inputs	Keyword, category

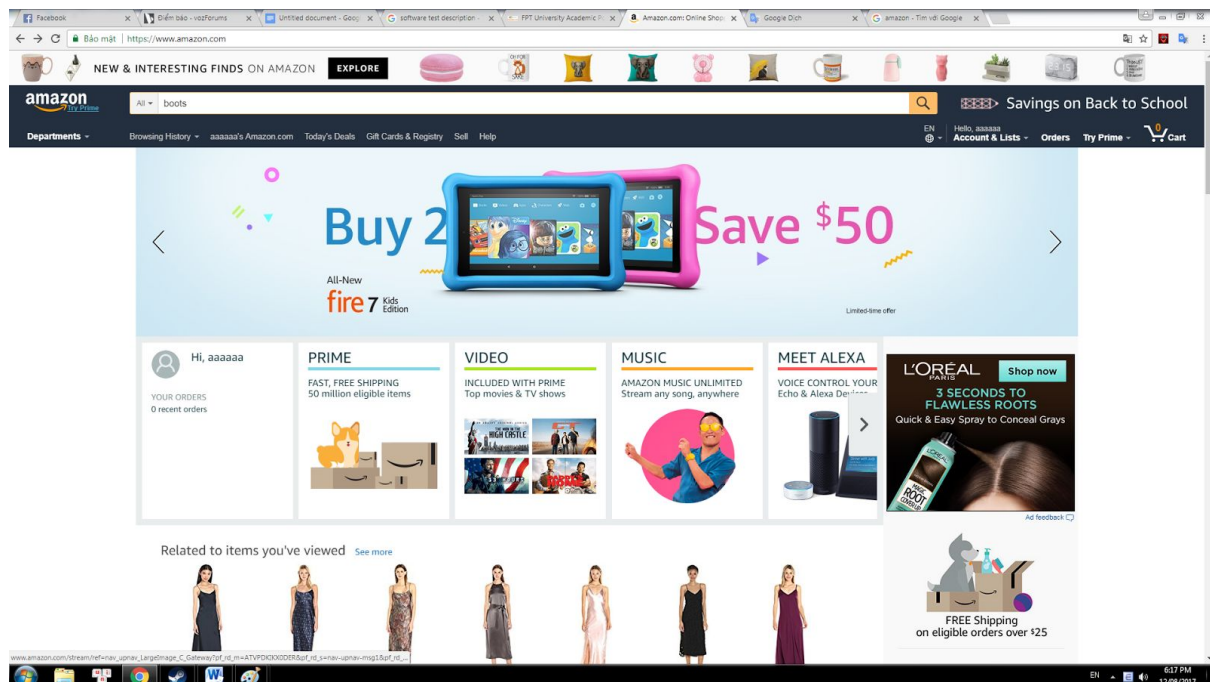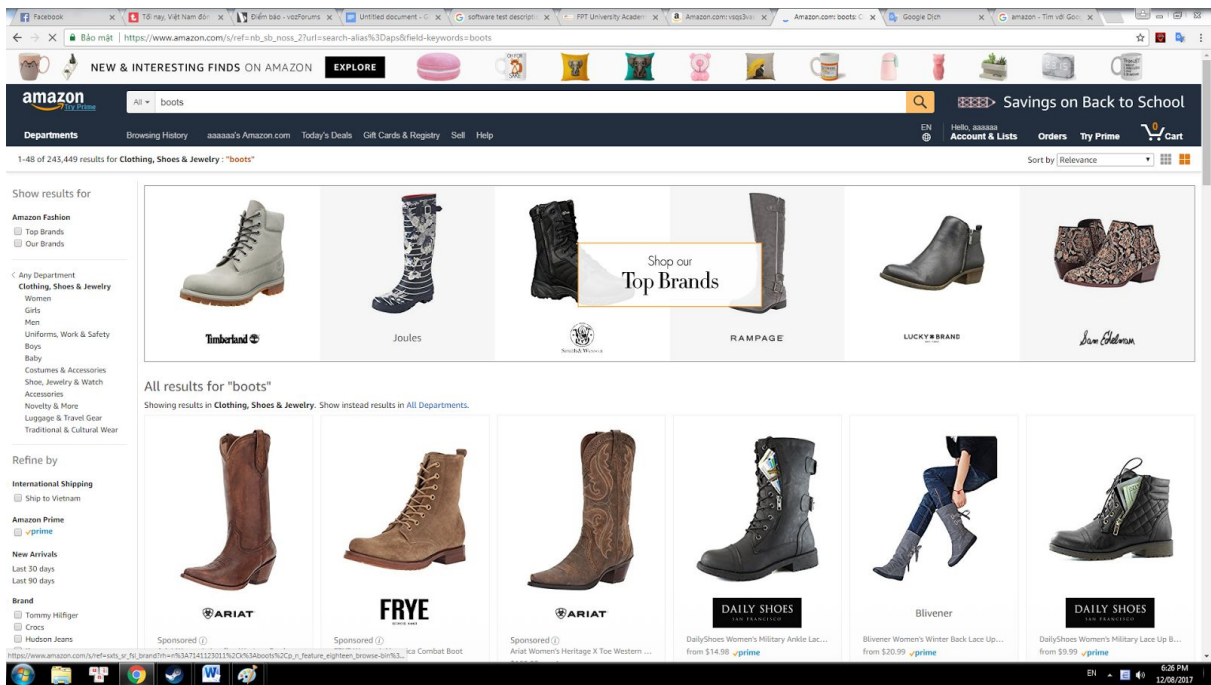| Expected results and criteria	Display result

Step 1 :
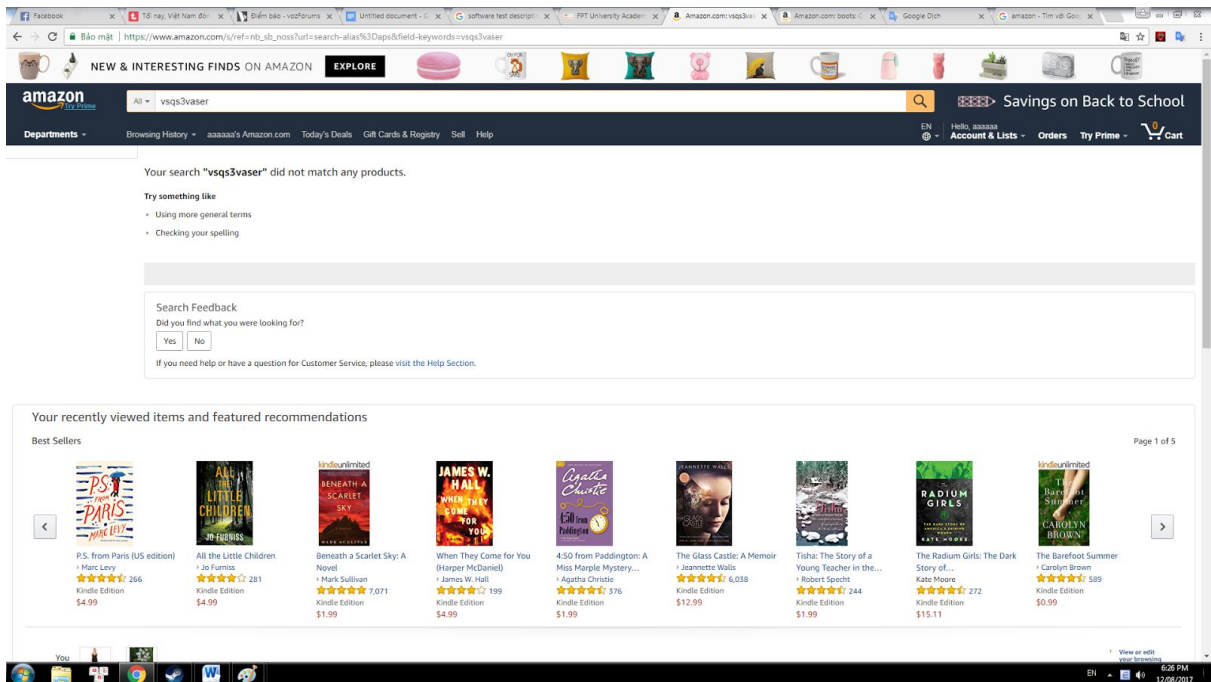Input keyword to search
(U can choose category or not)
Step 2 :
Press Search button

If there is product match to your keyword it will display

If no product match to your keyword

2.4 Test case 4 : Shopping cart

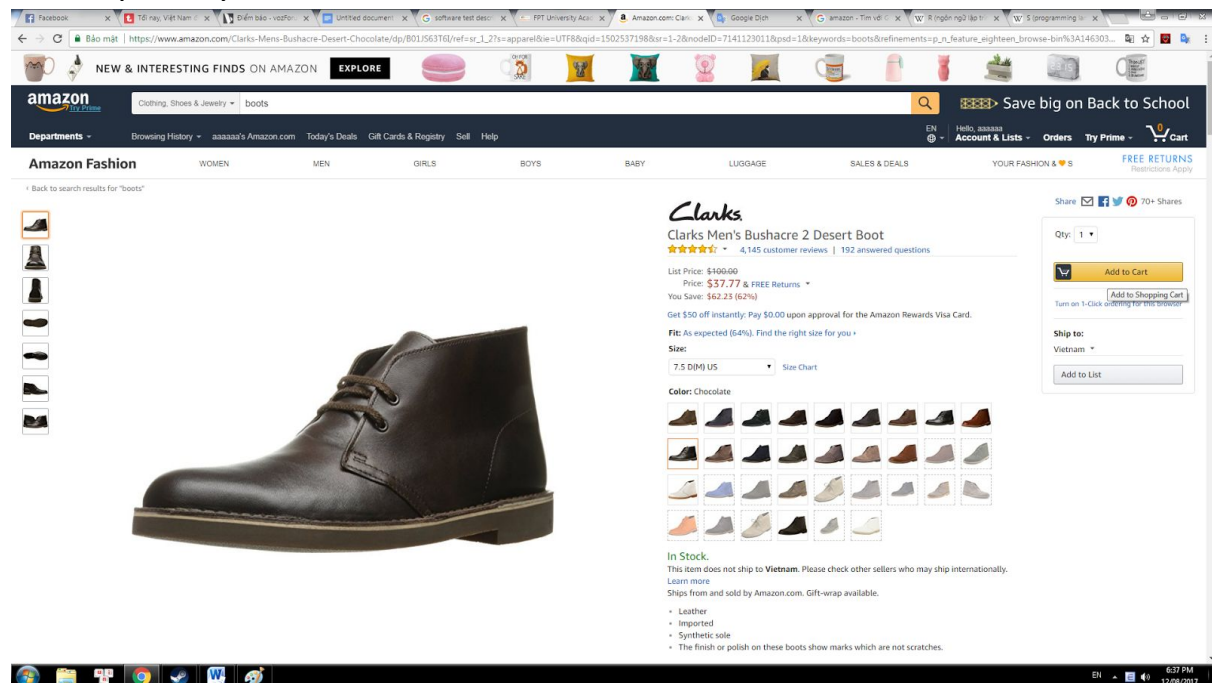| Test ID	AMAZON-T0004
Test description	Shopping cart

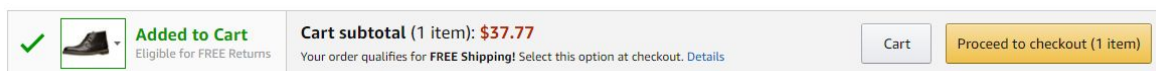| Initial conditions	Customer already have account and login
Tests inputs	Information about product
Expected results and criteria	Successfully add product to cart

Step 1 :
Click into product that you want to buy
Step 2 :
Select quantity and size

Step 3 :
Press "add to cart" button

You can keep buying or checkout

III. Software test report
3.1 Test identification, site, schedule and participation
Test site : the test will occurs at department of Amazon Company

Test member :

Test manager : Vo Hong Nhat Quang

Tester : Barack Obama, Bill Gates

Test Administrator : Mark Zuckerberg

3.2

Hardware and firmware configurations

+ Install the Oracle Database server and Apache Server Web server installed

+ Set up a gigabit LAN and Internet speed of at least 60Mb/s

Preparations and training prior to testing

- + Training for employee with Software testing training course
- + Checking system to make sure that testing process is going well

3.3 Test result

3.3.1 Test case result

TC 1 : Pass

TC 2 : Pass

TC 3 : Fail - Did not handling case "null keyword"

TC 4 : Pass

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Test cases planned	Test cases executed	TCs pass	TCs fail
20	18	15	3