Test plan for Browser stack

Ecommerce website

**Introduction**

**Overview**

This is an ecommerce website. This site sells smartphones. A trusted website that ensures perfect buy of clients' preferred niche. Those who are looking for a Branded smartphone with a smooth payment system, this is the perfect place for them.

**Objectives**

Testing the usability, functionality, required design, integration of units, isolated functions.

**Test case management** : here is the [index](https://docs.google.com/spreadsheets/d/1nC_RmznzEiaiTNrNPA7iR20b_SNF16qJek-iR042MV0/edit#gid=0) of test cases, where all the test cases are linked together.

**Objective**

* Validate the functional testing of every module such as login, registration, cart, product listing,checkouts navigations.
* Verify the usability and user experience of the website. Like colors, responsiveness, navigations, every button, accessibilities.
* Evaluate the performance of the website under various load conditions to ensure usability and scalability.
* Test the security of the website like safe payments, transaction, right products, protection from different

Vulnerabilities.

**Scope**

Testing all major features and functionalities like user registration, user login, cart, checkout, payment gateway integration, product listing, order processing, user account management.

**Test approach**

Test levels : unit testing, integration testing, system testing, acceptance testing

Test technique: blackbox testing, functional testing, usability testing, performance testing, security testing, acceptance testing.

Test data : use various combination of data to ensure various scenarios like product listing, user registration, user login, payment system, checkout

**Test environment**

**Hardware :** specifying the minimum hardware requirement. For desktop, minimum windows 7 & minimum hardware requirement is x86 architecture.

For mobile, minimum android 7, ram 1 gb, space 80 mb.

**Software :** specifying the minimum software requirement.

Supported browser - chrome, microsoft edge, safari, firefox

Pc - windows 7, 8, 8.1, 10, 11

We will be using jira zhypher as software testing tool  
Sql as database

**Test deliveries**

**Test case :** covering the test cases from the major functionalities. We checked the user login, product listing, payment, checkout product & usability testing. We encountered various test cases from those functionalities.

User login

We tested different combinations of user name and password to reach the limits of the login form.

| Test case title |
| --- |
| Valid username, valid password |
| Valid username, invalid password |
| Invalid user name, valid password |
| Invalid user name, invalid password |
| Empty user name, valid password |
| Empty user name, invalid password |
| Valid username, empty password |
| Invalid user name, empty password |
| Empty user name, empty password |

Verify the navigation

| Test scenario | Test case title | Bug status |
| --- | --- | --- |
| 1-Check every navigation works fine | Check every navigation that correctly redirecting to the page |  |
| 2-Now select vendor & then navigate to another page then return to see if the product is accurate & the background doesn't change of the vendors | 1-select vendors  2-navigate to another page | Bug found |
| 3 - add a product to favourites then redirect to another page and return to home page. The item should be in favourites | Check all the products by adding to favourites | Bug found |

Product Listing

| 1. check if right product &  right quantity of product is  appearing after selecting  vendors | 1. check without selecting  any vendors to see all products  are displayed |
| --- | --- |
|  | check selecting with all vendors,  the right quality & quantity product  is displayed |
|  | select apple and check wether only the  apple product is displayed |
|  | select samsung and check wether only the  samsung product is displayed |
|  | select google and check wether only the  google product is displayed |
|  | select oneplus and check wether only the  oneplus product is displayed |
|  | select apple and other vendors individually  such as apple & samsung, apple & google  , apple & oneplus. |
|  | select samsung & other vendors individually  such as samsung & apple, samsung & google,  samsung & oneplus |
|  | select google & other vendors individually such as  google & apple, google & samsung, google & oneplus |
|  | select oneplus & other vendors individually  such as oneplus & apple, oneplus & samsung,  oneplus & google |
|  | select 3 vendors with different combination  select apple, samsung, google |
|  | select apple , samsung, oneplus |
|  | select apple, google, oneplus |

| 1. choose a order type and see  if the products are maintained by  order | do not select any order |
| --- | --- |
|  | select : lowest to highest |
|  | select : highest to lowest |

| after selecting an order type,  click any navigation then return  to homepage again.  then verify if the order type maintained  after redirecting to navigation.  2 - order type UI will not reset to default  form | 1. select order type : lowest to highest  2. go through all navigation individually |
| --- | --- |
|  | 1. select order type : highest to lowest  2. go through all navigation individually |

| after adding to the favourites, the product  should be in favourites. | add a product to favourites. |
| --- | --- |
|  | add multiple products to favourites |
|  | add no product to favourites |
| add favourites and check favourites that  items are selected correctly. then return  to home page. then check the favourites  again, if the selected favourite product  remain same or not | 1 : add product to favourites  2 : return to home page |
|  | 1 : add multiple products to favourites  2.: return to homepage |
|  | 1 : add no product to homepage  2.: return to homepage |

These are some test cases that have been executed to ensure quality and quantity of the products.

Payment gateway

| test case scenario | test case title |
| --- | --- |
| - verify that the  selected product is  correct in payment  section | - check the  product that you  have selected is  correct |
|  | - select multiple  product |
|  | - check if the product  is in right quantity |
| - verify that the  fields works properly  in different test cases | - empty first name  - fill others |
|  | - empty first name  & last name  - fill others |
|  | - submit withour state |
|  | - submit without postal code |
|  | - submit without address |
|  | - submit all the information  correctly |
| - check, after the  submission, product  details will appear | - check if the download  reciept is downloaded |
|  | - check, downloaded receipt  contains proper details of the  product |

Cart

We executed different combinations of test cases to ensure the performance and to check the limits of the functionality. The test cases are below in linked form. Click to see all the test cases that have been executed.

[bstack testing](https://docs.google.com/spreadsheets/d/1nC_RmznzEiaiTNrNPA7iR20b_SNF16qJek-iR042MV0/edit#gid=1102639132)

Bug reports :

Login : [bstack testing - Google Sheets](https://docs.google.com/spreadsheets/d/1nC_RmznzEiaiTNrNPA7iR20b_SNF16qJek-iR042MV0/edit#gid=1028965710)

Navigation : [bstack testing](https://docs.google.com/spreadsheets/d/1nC_RmznzEiaiTNrNPA7iR20b_SNF16qJek-iR042MV0/edit#gid=1471660612)

Product listing : [product listing bug report](https://docs.google.com/spreadsheets/d/1nC_RmznzEiaiTNrNPA7iR20b_SNF16qJek-iR042MV0/edit#gid=1245962164)

Payment gateway : no bug found

Cart : no bug found

**Test execution**

1. First we will be checking the whole website and make a sub plan how we are going to design the test cases.
2. Unit test : we will overlook to unit functionalities
3. Integration test : after ensuring the units, we shall integrate the units and test the data flow.
4. Usability testing : we shall check the user interface and required criteria of client. Like the navigation, responsiveness, color, text size
5. System test : after checking all the tests, we shall check the whole website again. Starting from unit testing to integration and usability testing.
6. Regression testing : after the bug is fixed, we will go through the test again and find out a new bug appearance.

Test cases in all major functionalities :

1. We will test all the various data to the functionalities to make the function meet the limits.Above a link has been given to the index of all test cases.

Defect report :

1. In each test, we will try to find defects, bugs.
2. Specially in unit testing, integration testing, regression testing.
3. Regression testing can find more vulnerabilities, because after fixing bugs there might be new bugs appearing.
4. We will write a clean bug report so that we can find the bug in different cases/track the defect. We will be using bug id for every bug.
5. Our main focus would be in complex functionalities, payment, products listing, checkout, navigation.