Bazaar Ceramics Project

Test Summary Report



Institute of Technology Australia

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| **Version History** | |
| **Version #** | **Date** | | **Revised By** | **Reason for change** |
| **1.0** | **28/03/2021** | | **Alessandro Ferro** | **NA** |
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# Objective of the Test

The Bazaar Ceramics website has been tested in three different areas: Functionalities, Navigation and Cross browser compatibility.

The testing aimed at verifying that the website meets the minimal requirements to be ready for the production environment.

Being an ecommerce platform, the website is expected to be accessed by people all over the world, from a variety of devices and browsers, to navigate, register and purchase products online, and by Bazaar Ceramics staff, to perform CRUD operations and view sales reports.

The objective of the test is to identify any issue that may prevent the website from rendering or functioning correctly, before it’s launched online.

To satisfy the criteria that define its conformity, the website needs to render consistently on all the most popular browsers and should provide easy and intuitive navigation on desktop machines as well as on mobile devices. The functionalities implemented should guarantee that the tasks are performed correctly and the data collected, handled and provided by the system are precise and secure.

Any issue found may result in corrective measures and in a new cycle of testing, according to their severity.

# Testing Approach

Functionality testing

In accordance to the test plan, functionality testing has been approached from the perspective of the three different kind of users that will interact with the system.

* The visitor is a user that isn’t registered on the website and has limited access to its functionalities.
* The registered customer is a user that is registered on the website and can purchase products online.
* The admin is a Bazaar ceramic employee that has access to the administration dashboard.

To ensure that each functionality has been tested thoroughly, the tester has simulated the behaviour of users by following the expected procedure to complete every task, but also by challenging the system and straying from the normal workflow, including entering unexpected input, refreshing the browser, moving back and forward through the web pages and alternating between registered user and visitor status while undertaking an action.

The goal has been to verify how the system handle users error, session management and state of the http requests and responses.

Because some functionalities depend on others before they can be accessed (e.g. checkout needs the user to register and have at least one product in the shopping cart), the order in which they have been tested has been dictated by the workflow necessary to provide the system with the all the information needed to progressively gain access to every functionality.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Typical workflow to test a functionality | | | | | | | | | | |
| **TASK** |  | Wrong Action 1 |  | Wrong Action 2 |  | Wrong Action n |  | Correct Action |  | **NEXT TASK** |

Navigation

The limited number of links and navigation options, made possible for the tester to effectively test the website navigation manually, as part of the testing of the functionalities.

The customer side of the website consists of two layers of navigation, with the first one tied up by a navigation bar independent from any other page. The second layer has only three pages accessible.

The only page that doesn’t need to be accessed during functional testing is the “About us” page, which has been tested on its own. A single anchor link is situated on the home page and leads to the internal products page. There are no external links.

The administration part of the website consists of a single page, populated with all the data collected from the database when is loaded. The admin, by selecting one of the options on the navbar on top of the screen, can decide which content is displayed and which is alternatively hidden at any given time. Because of this structure, the administration part of the website has no other navigationS than the login and the signout, which are already part of the functionality test run.

Because some of the pages and functionalities of the website can be accessed only upon login, the tester tried to gain access to every protected page via their url to test the behaviour of the system.

Cross browser compatibility

A normal workflow to purchase an item has been followed for three of the major browser most popular nowdays, to identify any possible issue wth the rendering of the website or with the functionalities implemented through client side scripting, especially for the administration dashboard that relies heavily on javasacript to operate.

Issues

Issues found during testing may be approached in three different ways

* Issues that do not compromise the operativity of the solution can be pushed for correcction to a later day, in order to avoid delays to the website’s launch date.

In this category fall minimal aestethical discrepancies or imprecisions in the copy, such as typos, headers sizing, colors and the positioning of some elements, as long as the website renders and works correctly.

This kind of issues usually can be fixed easily and with little effort, without needing to change anything in the programming logic.

* Issues that affect functionalities that are not vital for the website operativity. This category includes those functions that, although important, are not strictly necessary for the website to be usable for its main purpose of selling products online and it mostly revolves around the admin part of the website.

The way this issues are approached needs to be discussed case by case with the stakeholders, to decide if they may require immediate action or if they can be pushed after launch day.

* Issues that prevent the website from accomlishing its main purpose. This case includes system breaking bugs or major aestethical discrepancies that forcefully cause to delay the launch date of the website to implement the necessary corrective measures.

All the functioanlities have been categorised according to their priority for the correct working of the website, on a scale from one to three, with one representig higher category and three lower.

# Areas Tested

.Navigation and Fucntionlity testing

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Functional Area** | **Condition** | **Test Steps** | **Expected Results** | **Actual Results** | **Result** |
| **Visitor** | | | | | | |
| 01 | Navigation | Navigate to ‘about us’ page | * . Click ‘about us’ on the navbar | User redirected to ‘about us’ page | User redirected to ‘about us’ page | Pass |
| 02 | Navigation | Navigate to ‘contact us’ page | . Click ‘contact us’ on the navbar | User redirected to ‘contact us’ page | User redirected to ‘contact us’ page | Pass |
| 03 | Navigation | Select category and browser products | . Click ‘categories’ on navbar  . Select one option from the dropdown menu | User redirected to products page populated with the products of the selected category | User redirected to products page populated with the products of the selected category | Pass |
| 04 | Navigation | Navigate to shopping cart | . Click the shopping cart icon on the navbar | User redirected to the ‘shopping cart’ page | User redirected to the ‘shopping cart’ page | Pass |
| 05 | Send message | Send message without completing the form | . Leave a blank field in the contact form in the ‘contact us’ page. | System prompts user to fill every field | System prompts user to fill every field | Pass |
| 06 | Send message | Send message with wrong email pattern | . Fill every field in the form  . Fill the email field without using ‘@’ or ‘.’ characters | User promtped to enter a valid email | User promtped to enter a valid email | Pass |
| 07 | Send message | Complete form with correct details | . Fill contact form with correct data | User notified that message has been sent | User notified that message has been sent | Pass |
| 08 | View product details | Select product from products page | . Click ‘view details’ on a product in the ‘products’ page | User redirected to the ‘product-details’ page, populated with the selected product details. | User redirected to the ‘product-details’ page, populated with the selected product details. | Pass |
| 09 | Search product | Search product from search bar | . Enter product name in search bar  . Click search | User redirected to earch page, populated with the products matching the search | User redirected to earch page, populated with the products matching the search | Pass |
| 10 | Add product to shopping cart | Unspecified product quantity field | . Leave ‘quantity’ field blank in ‘product-details’ page.  . Click ‘add to cart’ | 1 quantity of the selected product is added to cart | 1 quantity of the selected product is added to cart | Pass |
| 11 | Add product to shopping cart | Negative quantity entered in the ‘quantity’ field | . Enter negative value in the quantity field  . Click’ add to cart’ | 1 quantity of the selected product is added to cart | 1 quantity of the selected product is added to cart | Pass |
| 12 | Add product to shopping cart | Quantity entered in the ‘quantity’ field | . Enter a value higher than one in the ‘quantity’ field  . Click ‘add to cart’ | The quantity of product specified by the user, is added to the shopping cart | The quantity of product specified by the user, is added to the shopping cart | Pass |
| 13 | Add product to shopping cart | Product already in cart | . Select product already in cart from the catalogue  . Click ‘add to cart’ in the product details page | User is notified that the product is already in the shopping cart | User is notified that the product is already in the shopping cart | Pass |
| 14 | Change quantity of product in cart | Enter negative amount | . Enter negative value in the ‘quantity’ box of the shopping cart  . Click outside of the ‘quantity’ box  . Refresh page | Quantity is resetted to 1 | Quantity is resetted to 1 | Pass |
| 15 | Change quantity of product in cart | Enter 0 amount | . Enter ‘0’ in the ‘quantity’ box of the shopping cart  . Click outside of the ‘quantity’ box.  . Refresh page | Quantity is resetted to previous quantity | Quantity is resetted to previous quantity | Pass |
| 16 | Change quantity of product in shopping cart | Enter no amount | . Delete any amount in the ‘quantity’ box in the shopping cart  . Click outside the ‘quantity’ box  . Refresh page | Quantity is resetted to previous quantity | Quantity is resetted to previous quantity | Pass |
| 17 | Change quantity of product in shopping cart | Enter new positive amount | . Enter positive value different than previous one in the ‘quantity’ box  . Click outsde of the ‘quantity’ box  . Refresh page | New quantity is set in the shopping cart. | New quantity is set in the shopping cart. | Pass |
| 18 | Remove product from cart | Remove the product in the shopping cart | . Click the delete button on the product’s row | The product is removed formm the shopping cart | The product is removed formm the shopping cart | Pass |
| 19 | Register | Form incomplete | . Click ‘sign-up’ on the navbar  . Leave at least a blank field  . Click ‘submit’ | The user is prompted to complete the form | The user is prompted to complete the form | Pass |
| 20 | Register | Email doesn’t contain ‘@’ or ‘.’ | . Fill every field in the form  . Fill email field without using ‘@’, or ‘.’ Characters  . Click ‘submit’ | User is prompted to enter valid email | User is prompted to enter valid email | Pass |
| 21 | Register | Password and Re-password don’t match | . Fill every field of the form  . Enter a re-password that doesn’t match the password  . Submit the form | User prompted to enter enter matching values | User prompted to enter enter matching values | Pass |
| 22 | Register | Email already in database | . Fill every field in the form  . Enter an email that already exists in the database  . Submit form | User is notified that the email already exists in the database | User is notified that the email already exists in the database | Pass |
| 23 | Register | Complete form correctly | . Fill every field in the form with correct values  . Click ‘submit’ | New user with role ‘customer’ is added to the database.  User receive notification on screen that registration has been successful. | New user with role ‘customer’ is added to the database.  User receive notification on screen that registration has been successful. | Pass |
| **Registered Customer** | | | | | | |
| 24 | Login | Wrong credentials | . Enter incorrect email  . Enter incorrect password  . Submit form | User is prompted to enter valid credentials | User is prompted to enter valid credentials | Pass |
| 25 | Login | Invalid user name | . Enter incorrect email  . Enter correct password  Submit form | User is prommtped to enter valid credentials | User is prommtped to enter valid credentials | Pass |
| 26 | Login | Invalid password | . Enter valid email  . Enter invalid password  . Submit form | User is prompted to enter valid credentials | User is prompted to enter valid credentials | Pass |
| 27 | Login | Valid credentials | . Enter valid email  . Enter valid password  . Submit form | User is logged in to the system and is notified of the successful login.  ‘Sign up’ and ‘Sign in’ options in navbar are substituted with ‘Sign out’ | User is logged in to the system and is notified of the successful login.  ‘Sign up’ and ‘Sign in’ options in navbar are substituted with ‘Sign out’ | Pass |
| 28 | View Cart | Products in cart before login | . Login  . Click shopping cart icon | The products are added to the shopping cart. Any matching product will be increased by quantity. | The products are added to the shopping cart. Any matching product will be increased by quantity. | Pass |
| 29 | View Cart | No products in cart before login | . Login  . Click shopping cart icon | User notified that shopping cart is empty | User notified that shopping cart is empty | Pass |
| 30 | Add product to shopping cart | Unspecified product quantity field | . Leave ‘quantity’ field blank in ‘product-details’ page.  . Click ‘add to cart’ | 1 quantity of the selected product is added to cart | 1 quantity of the selected product is added to cart | Pass |
| 31 | Add product to shopping cart | Negative quantity entered in the ‘quantity’ field | . Enter negative value in the quantity field  . Click’ add to cart’ | 1 quantity of the selected product is added to cart | 1 quantity of the selected product is added to cart | Pass |
| 32 | Add product to shopping cart | 0 entered in the ‘quantity’ field | . Enter 0 in the ‘quantity’ field  . Click ‘add to cart’ | 1 quantity of the selected product is added to cart | 1 quantity of the selected product is added to cart | Pass |
| 33 | Add product to shopping cart | Quantity entered in the ‘quantity’ field | . Enter a value higher than one in the ‘quantity’ field  . Click ‘add to cart’ | The quantity of product specified by the user, is added to the shopping cart | The quantity of product specified by the user, is added to the shopping cart | Pass |
| 34 | Checkout | Paypal | . Click Paypal button | Paypal login modal opens. | Paypal login modal opens. | Pass |
| 35 | Checkout | Credit card | . Click credit card  . Fill form  . Click ‘pay now’ | Order is added to database and user is redirected to order-details page populated with the details of the order. | Order is added to database and user is redirected to order-details page populated with the details of the order. | Pass |
| 36 | Logout | Logout while registered | . Click ‘logout’ on the navbar | User is logged out and redirected to home page.  ‘sign out’ in the navbar is substituted with ‘sign in’ and ‘sign up’ | User is logged out and redirected to home page.  ‘sign out’ in the navbar is substituted with ‘sign in’ and ‘sign up’ | Pass |
| **Admin** | | | | | | |
| 37 | Sign in | Sign in with admin credentials | . Enter admin email  . Enter admin password  . Submit form | User is logged in and redirected to the admin dashboard | User is logged in and redirected to the admin dashboard | Pass |
| 38 | View sales | User logged in as administrator | . Login with admin credentials | The system renders a graph with the sales numbers for the past week. | The system renders a graph with the sales numbers for the past week. | Pass |
| 39 | View customers | User logged in as administrator | . Login with admin credentials | The system populate the dashboard with a table containing the users registered in the system | The system populate the dashboard with a table containing the users registered in the system | Pass |
| 40 | Search customer | Admin search for specific customer | . Enter customer name in search bar | The customer table reduces to show only the customers that match the admin input | The customer table reduces to show only the customers that match the admin input | Pass |
| 41 | View products | User logged in as administrator | . Login with admin credentials | The system populate the dashboard with a table containing the products in the catalogue. | The system populate the dashboard with a table containing the products in the catalogue. | Pass |
| 42 | Search product | Admin search for specific product | . Enter product name in search bar | The products table reduces to show the products that match the admin input | The products table reduces to show the products that match the admin input | Pass |
| 43 | Create customer | Open modal to enter new customer details | . Click ‘create’ in the ‘customers’ view | Modal with form to enter new customer details appear on screen | Modal with form to enter new customer details appear on screen | Pass |
| 44 | Create customer | Incomplete information | . Click ‘create’ in ‘customers’ view  . Leave fields blank  . Submit form | User is prompted to complete the form | User is prompted to complete the form | Pass |
| 45 | Create customer | Email doesn’t contain ‘@’ or ’.’ characters | . Click ‘create’ in ‘customers’ view  . Fill form  . Fill email field without using ‘@’ or ‘.’ Characters  . Submit form | User is prompted to enter a valid email. | User is prompted to enter a valid email. | Pass |
| 46 | Create customer | Form completed correctly | . Click ‘create’ in ‘customers’ view  . Compelte form with valid details  . Submit form | User is notified of customer creation, new user is created in the database and it appears in the ‘cutomers’ table. | User is notified of customer creation, new user is created in the database and it appears in the ‘cutomers’ table. | Pass |
| 47 | Delete cutomer | Delete customer from ‘customers’ table | . Click ‘delete’ in one row of the ‘customers’ view  . Confirm in the alert window | Customer is deleted from table and from database. | Customer is deleted from table and from database. | Pass |
| 48 | Create product | Open modal | . Click ‘create’ n the ‘products’ view | Modal with form to enter new produt details appears on screen. | Modal with form to enter new produt details appears on screen. | Pass |
| 49 | Create product | Form not completed | . Click ‘create’ in the ‘products’ view  . Do not complete the form  . Submit the form | The user is prompted to complete the form. | The user is prompted to complete the form. | Pass |
| 50 | Create product | Complete form | . Click ‘create’ in the ‘products’ view  . Complete the form  . Submit the form | User notfied of product creation, new product is added to the database and it appears in the ‘products’ table. | User notfied of product creation, new product is added to the database and it appears in the ‘products’ table. | Pass |
| 51 | Update product | Open modal | . Click ‘update’ from one of the product in the ‘products’ table | Modal with update form appears on screen, populated with the selected item details | Modal with update form appears on screen, populated with the selected item details | Pass |
| 52 | Update product | Incomplete form | . Click ‘update’ from one of the product in the ‘products’ table  . Delete the information from one of the fields  . Submit form | User is prompted to complete the form. | User is prompted to complete the form. | Pass |
| 53 | Update product | Completed form | . Click ‘update’ from one of the product in the ‘products’ table  . Modify the values in the form’s fields  . Click submit | The user is notified of the change and the product is updated in the database and in the ‘products’ table | The user is notified of the change and the product is updated in the database and in the ‘products’ table | Pass |
| 54 | Delete product | Delete product from the ‘products’ table | . Click delete on one row in the ‘products’ table  . Confirm in the alert window | The user is notified that the product has been deleted. The product is deleted from the database and from the ‘products’ table. | The user is notified that the product has been deleted. The product is deleted from the database and from the ‘products’ table. | Pass |
| 55 | Logout | Admin logout | . Click ‘logout’ on the navbar | The user is logged out and redirected to the website’s home page. | The user is logged out and redirected to the website’s home page. | Pass |

Cross Browser compatibility

Home Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

About Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Contacts Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Products Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Sign up Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Sign in Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Search Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Product details Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Shopping cart Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Checkout Page

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Admin Dashboard - Sales

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Admin Dashboard - Customers

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Admin Dashboard – Create Customer Modal

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Admin Dashboard - Products

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Admin Dashboard – Create Product Modal

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

Admin Dashboard – Update Product Modal

|  |  |  |
| --- | --- | --- |
| Firefox | Edge | Chrome |
|  |  |  |

# Areas not tested

Although marginally covered by the suite of tests executed, the following areas didn’t undergo any thorough dedicated testing.

Security

* The tester tried to access the URLs of pages protected by user authentication as part of the Navigation testing cycle.
* The tester tried to access the system by using various combinations of invalid email addresses and passwords as part of the Functionalities testing cycle.
* The tester verified that the passwords have been hashed before being stored in the database as part of the test environment setup.

Security testing has been left out of this suite of testing and should receive its own dedicated cycle, to be performed by the appropriate professionals.

Performance

No performance metric has been recorded in this test suite. Metrics have been provided by the development tools included in the three browsers used to verify Cross-Browser compatibility, but are considered unrelated to those of a real world scenario and therefore irrelevant.

Database

The system needs to interface with the database to perform nearly every task, therefore it is crucial that the data provided to and by the system are accurate.

The tester verified the system’s data handling capabilities as part of the normal run of functionality tests.

The tasks performed required the system to

* Insert records in the database as part of the Registration, Login, Add to Cart, Checkout, Create Customer and Create Product functionalities testing
* Retrieve records as part of the Registration, Login, Search, Select Category, Add to Cart, Checkout, Create Customer and Create Product functionalities testing.
* Delete records as part of the Remove from Cart, Delete Customer and Delete Product functionalities testing.
* Update records as part of the Update Products functionality testing.

Although the test run verified that the data have been handled by the database correctly, no further testing has been conducted on database capacity, performance and security.

# Platform details

Machine: Lenovo YOGA 310-11IAP

RAM: 4.00 GB

Operative System: Windows 10

Browsers: Chrome, Edge, Firefox

Website hosting environemt: Xampp

# Final testing closure document

|  |  |
| --- | --- |
| Test Case Author: | Alessandro Ferro |
| Tester Name: | Alessandro Ferro |
| Project ID / Name: | Bazaar Cearmics Project |
| Test Cycle ID: | 001 |
| Date Tested: | 28/03/2021 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Elements Tested** | **Descriptions** | **% TCs Executed** | **% TCs Passed** | **TCs pending** | **Priority** | **Remarks** |
| Registered Customer | | | | | | |
| Navigation | Verify user can navigate the website | 100% | 100% | 0 | 1 | None |
| Send Message | Verify user can send a message to the company | 100% | 100% | 0 | 2 | None |
| View Product Details | Verify user can select a product and view its details | 100% | 100% | 0 | 1 | None |
| Search Product | Verify user can search for a specific product | 100% | 100% | 0 | 2 | None |
| Add Product to Cart | Verify products can be added to cart |  | 100% | 0 | 1 | None |
| Change quantity in cart | Verify quantity of product in cart can be modified | 100% | 100% | 0 | 3 | None |
| Remove Product From Cart | Verify product can be deleted from cart | 100% | 100% | 0 | 1 | None |
| Register | Verify user can register to the website | 100% | 100% | 0 | 1 | None |
| Registered Customer | | | | | | |
| Login | Verify user can login to the website | 100% | 100% | 0 | 1 | None |
| View Cart | Verify registered customer can access the shopping cart and its functionalities | 100% | 100% | 0 | 1 | None |
| Add product to shopping cart | Verify registered customer can add products to cart | 100% | 100% | 0 | 1 | None |
| Remove from cart | Verify registered customer can delete products from cart | 100% | 100% | 0 | 1 | None |
| Checkout | Verify registered customer can checkout | 100% | 100% | 0 | 1 | None |
| Logout | Verify registered customer can logout | 100% | 100% | 0 | 1 | None |
| Admin | | | | | | |
| Sign in | Verify admin can sign in to the website | 100% | 100% | 0 | 1 | None |
| View sales | Verify the admin can view the sales graph | 100% | 100% | 0 | 1 | None |
| View customers | Verify the admin can view the cusomters table | 100% | 100% | 0 | 2 | None |
| Search customer | Verify the admin can search for a specific customer | 100% | 100% | 0 | 3 | None |
| View products | Verify the admin can view the products table | 100% | 100% | 0 | 1 | None |
| Search product | Verify the admin can search for a specific product | 100% | 100% | 0 | 3 | None |
| Create customer | Verify the admin can add a new customer to the database | 100% | 100% | 0 | 3 | None |
| Delete cutomer | Verify the admin can delete a customer | 100% | 100% | 0 | 3 | None |
| Create product | Verify the admin can add a product to the database | 100% | 100% | 0 | 1 | None |
| Update product | Verify the admin can update a product in the database | 100% | 100% | 0 | 1 | None |
| Delete product | Verify the admin can delete a product from the database | 100% | 100% | 0 | 1 | None |
| Logout | Verify the admin can logout | 100% | 100% | 0 | 1 | None |

# Email confirmation sent to all the key users of the website

|  |  |  |  |
| --- | --- | --- | --- |
| Aknowledgement of receival | | | |
| **Name** | **Email** | **Date Received** | **Notes** |
| Alessandro Ferro | alexo.ferro@gmail.com | 28/03/2021 |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |