User Acceptance Testing Plan

redesigned-rotary-phone

UAT Assumptions:

> - Test environment – since there is no product owner within the group, the following acceptance requirements are to be conducted by the project tester.
> - Test documentation – the acceptance requirements and test details are to be documented below.
> - Error reporting – any errors, failures or flaws are to be documented below and reported immediately to the project developers.

UAT Constraints:

> - Test results – the completed document below must be submitted by September 27th, 2020.
> - Resources:
>   > - Human resources – 1 tester (project tester) available for the duration of 4 sprints (4 weeks).
>   > - Hardware – laptop.
>   > - Operating system – Windows 10.
>   > - Browsers – Google Chrome, latest version.

UAT Risks (risks and mitigation plan):

> - Unexperienced tester – learn online on how to test Django projects.
> - UAT test failure – run effective and frequent test cycles (if possible, more than twice per user story/functions).
> - Incomplete UAT testing – plan and run effective test cycles.

This document was prepared by the project tester.

User Story	Acceptance Requirement, Expected Output (☐) and Actual Output (☑)	Priority	Test Result	Date(s) Tested	Test Comments
Account Sign Up As a user, I want to be able to sign up, so I can purchase or sell items in the website.	**Successful registration.** ⊚ Given my role of a website visitor When I click the 'Login or register' button ☑ I will be redirected to the Log In/Register page I fill in all the required 'Register' fields correctly When I click the 'Register' button ☑ My account details are reflected in the database ☑ I will receive a welcome email ☑ I will be notified of a successful registration ☑ I will be redirected to the Profile page Pending Feature Implementation (08/09/2020): ☑ I will be able to view item listings ☑ I will be able to purchase items ☑ I will be able to sell items (only sellers)	High	PENDING PASS ☑	08/09/2020 (Sprint 2) 22/09/2020 (Sprint 4)	Tested locally 4x + 2x with one true email address and three disposable email addresses with 16-digit passwords from a random password generator. 2-5 seconds response time (local test). Must not release until requirements are met.
	Unsuccessful registration. ⊚ Given my role of a website visitor When I click the 'Login or register' button ☑ I will be redirected to the Log In/Register page I fill in the 'Register' fields incorrectly (existing account credentials, common passwords (e.g. 123, abc, test, etc.), similar to account email address, less than 8 characters, or any combination) When I click the 'Register' button ☑ I will be notified of the errors and invalid fields are highlighted ☑ My account details are not reflected in the database	High	PASS (PARTIAL) PASS ☑	08/09/2020 (Sprint 2) 22/09/2020 (Sprint 4)	Tested locally 4x + 2x with numerous different valid/invalid field combinations. Instantaneous to <2 seconds response time (local test). **Consecutive letters (up to 10 letters) are invalid; however, 'abcdefghijk' (11 letters and more) is valid as password (low priority).** Must not release until requirements are met.

| Account Log In

As a user, I want to be able to log in, so I can use my account in any devices. | **Successful login.**

⊙ Given my role of a website visitor
When I click the 'Login or register' button
☑ I will be redirected to the Log In/Register page
I fill in all the required 'Log In' fields correctly
When I click the 'Log In' button
☑ I will be notified of a successful login
☑ I will be redirected to the Profile page
~~Pending Feature Implementation (09/09/2020):~~
☑ I will be able to view item listings
☑ I will be able to purchase items
☑ I will be able to sell items (only sellers) | High | PENDING

PASS
☑ | 09/09/2020 (Sprint 2)

22/09/2020 (Sprint 4) | Tested locally 2x + 2x with registered account credentials (as per local database).

Instantaneous to <2 seconds response time (local test).

Must not release until requirements are met. |
| | **Unsuccessful login.**

⊙ Given my role of a website visitor
When I click the 'Login or register' button
☑ I will be redirected to the Log In/Register page
I fill in the 'Log In' fields incorrectly (invalid username, invalid password, invalid username and valid password (and otherwise), exclude @ from email, or any combination)
When I click the 'Log In' button
☑ I will be notified of the errors and invalid fields are highlighted/enter valid account credentials prompt
☑ The 'Password' field will be reset (blank field) | High | PASS
☑ | 09/09/2020 (Sprint 2) | Tested locally 6x with numerous different valid/invalid field combinations.

Instantaneous to <2 seconds response time (local test).

Must not release until requirements are met. |

Account Authentication As a user, I want to have my password authenticated, so my account is secure and can only be accessed by me.	**Successful password authentication.** ⊚ Given my role of a website visitor ⊚ Given my current page is the Log In/Register page I fill in the 'Log In' fields with a registered email address and a valid password When I click the 'Log In' button ☑ The system must be able to automatically verify my password based on the account database ☑ I will be notified of a successful login	High	PASS ☑	09/09/2020 (Sprint 2)	Tested locally 2x with registered account credentials (as per local database). Instantaneous to <2 seconds response time (local test). Must not release until requirements are met.
	Unsuccessful password authentication. ⊚ Given my role of a website visitor ⊚ Given my current page is the Log In/Register page I fill in the 'Log In' fields with a registered email address and an invalid password When I click the 'Log In' button ☑ The system must be able to automatically verify my password based on the account database ☑ I will be notified of an unsuccessful login and prompted to enter a correct username and password	High	PASS ☑	09/09/2020 (Sprint 2)	Tested locally 2x with registered account credentials with invalid passwords (as per local database). Instantaneous to <2 seconds response time (local test). Must not release until requirements are met.

| Add or Remove Items

As a seller, I want to be able to add and remove items, so I can manage the items I am selling. | **Successful addition of items.**

⊚ Given my role of a seller (registered and logged in)
⊚ Given my current page is the Seller Dashboard

When I click the 'Catalog > Products' button or the 'Manage' button
☑ I will be redirected to the 'Products' page (Dashboard > Products / 127.0.0.1:8000/dashboard/catalogue/)
When I click the '+ New Product' button after selecting the product type
☑ I will be redirected to the 'Create new [product type] product' page
I enter all the product details and attributes correctly (random combinations)

Case 1:
When I click the 'Save' button
☑ The product added is reflected in the database
☑ I will be notified of a successful addition of the added product

Case 2:
When I click the 'Cancel' button
☑ The product added is not reflected in the database | High | FAIL ✗ | 21/09/2020 (Sprint 4) | Tested locally 4x with a registered 'seller' account.

Instantaneous to <2 seconds response time (local test).

Product is reflected in the database, but images added to the product is not shown in the website.

Must not release until requirements are met. |

| Add or Remove Items (cont.) | **Unsuccessful addition of items.**

⊙ Given my role of a seller (registered and logged in)
⊙ Given my current page is the Seller Dashboard

When I click the 'Catalog > Products' button or the 'Manage' button
☑ I will be redirected to the 'Products' page (Dashboard > Products / 127.0.0.1:8000/dashboard/catalogue/)
When I click the '+ New Product' button after selecting the product type
☑ I will be redirected to the 'Create new [product type] product' page
I enter invalid product details and attributes (incomplete data, random combinations of invalid data, e.g. enter letters when a quantity is expected)

Case 1:
When I click the 'Save'/'Save and continue editing' button
☑ The product added is not reflected in the database
☑ I will be notified of an unsuccessful addition of the added product, with the error highlighted and shown clearly

Case 2:
When I click the 'Cancel' button
☑ The product added is not reflected in the database | High | PASS
☑ | 21/09/2020 (Sprint 4) | Tested locally 6x with a registered 'seller' account and random combinations of invalid values.

Instantaneous to <2 seconds response time (local test).

Must not release until requirements are met. |

Add or Remove Items (cont.)	**Removal of items.** ⊙ Given my role of a seller (registered and logged in) ⊙ Given my current page is the Seller Dashboard When I click the 'Catalog > Products' button or the 'Manage' button ☑ I will be redirected to the 'Products' page (Dashboard > Products / 127.0.0.1:8000/dashboard/catalogue/) When I click the 'Actions > Delete' button of an existing product ☑ I will be redirected to the 'Delete product?' page **Case 1:** When I click the 'Delete' button ☑ The product removal is reflected in the database ☑ I will be notified of a successful removal of the selected product **Case 2:** When I click the 'Cancel' button ☑ The product removal is not reflected in the database	High	PASS ☑	21/09/2020 (Sprint 4)	Tested locally 4x with a registered 'seller' account and valid existing products. Instantaneous to <2 seconds response time (local test). Must not release until requirements are met.
List Items As a user, I want to see the list of items sold, so I can select an item for purchase.	**Viewing the list of items.** ⊙ Given my role of any website user (guest/buyer/seller) When I visit the website (127.0.0.1:8000 / http://127.0.0.1:8000/catalogue/) ☑ I will be able to view items for sale and its corresponding attributes	High	PASS ☑	22/09/2020 (Sprint 4)	Tested locally 3x. Instantaneous to <3 seconds response time (when accessing the website, local test). Must not release until requirements are met.

Items Category As a user, I want to see the products according to its categories, so I can find the product that I am looking for.	**Categorisation of items.** ⊘ Given my role of any website user (guest/buyer/seller) When I visit the website (127.0.0.1:8000 / http://127.0.0.1:8000/catalogue/) When I click on any item category ☑ I will be redirected to the corresponding category page ☑ I will be able to view the category description, items for sale in that particular category and its corresponding attributes	Medium	PASS ☑	22/09/2020 (Sprint 4)	Tested locally 3x. Instantaneous to <2 seconds response time.
Shopping Cart As a user, I want to have a shopping cart so that I can see all the items that I have selected, and I can remove or add items during my purchase.	**Adding items to the shopping cart.** ⊘ Given my role of a buyer (guest/buyer/seller) ⊘ Given my current page is the Home Page (http://127.0.0.1:8000/catalogue/) When I click the 'Add to cart' button of an existing item ☑ This specific item will be added into the shopping cart ☑ I will be notified of a successful item addition into the cart ☑ The current cart total is shown correspondingly	High	PASS ☑	23/09/2020 (Sprint 4)	Tested locally 6x with various items of different prices and accounts (guest, buyer, seller). Instantaneous to <2 seconds response time. Must not release until requirements are met.

| Shopping Cart (cont.) | **Viewing selected items in the cart.**

⊘ Given my role of a buyer (guest/buyer/seller)
⊘ Given my current page is the Home Page (http://127.0.0.1:8000/catalogue/)

Case 1:
When I click the 'Add to cart' button of an existing item
When I click the 'View cart' button below the cart total dialog
☑ I will be redirected to the 'Cart' page
☑ I will be able to view all the added items in the cart and the information displayed is accurate

Case 2:
Given that some items are already added into the cart
When I click the 'View cart' button
☑ I will be redirected to the 'Cart' page
☑ I will be able to view all the added items in the cart and the information displayed is accurate | High | PASS ☑ | 23/09/2020 (Sprint 4) | Tested locally 4x with various items of different prices and accounts (guest, buyer, seller).

Instantaneous to <2 seconds response time.

Must not release until requirements are met. |
| | **Removing items from the shopping cart.**

⊘ Given my role of a buyer (guest/buyer/seller)
⊘ Given my current page is the Cart Page (http://127.0.0.1:8000/basket/)
⊘ Given that some items are already added into the cart

When I click the 'Remove' button of an existing item
☑ This specific item will be removed from the shopping cart
☑ The current cart total is shown correspondingly | High | PASS ☑ | 23/09/2020 (Sprint 4) | Tested locally 6x with various items of different prices and accounts (guest, buyer, seller).

Instantaneous to <2 seconds response time.

Must not release until requirements are met. |

| Items Search

As a user, I want to be able search the products' that I am looking for using tags, so I can easily find the product I am looking for. | **Searching of items.**

⊘ Given my role of any website user (guest/buyer/seller)
⊘ Given my current page is the Home Page (http://127.0.0.1:8000/catalogue/)

When I enter a valid keyword in the search bar and click the 'Search' button
☑ The system must be able to identify items containing the search keyword
☑ I will be redirected to the search page – 'Products matching "(keyword)"' page
☑ I will be able to view all the relevant items containing the search keyword (or if search keyword is invalid, no result should be shown) | Low | PASS
☑ | 23/09/2020
(Sprint 4) | Tested locally 4x with different item keywords.

Instantaneous to <3 seconds response time. |

| Edit Items Information

As a seller, I want to edit item information, so I can modify the details of the item. | **Successful editing of items information.**

⊙ Given my role of a seller (registered and logged in)
⊙ Given my current page is the Seller Dashboard
⊙ Given that I have added some products

When I click the 'Actions > Edit' button on an existing product
☑ I will be redirected to the selected product's page
I modify the product details and attributes correctly (random combinations)

Case 1:
When I click the 'Save'/'Save and continue editing' button
☑ Modifications to the product are reflected in the database
☑ I will be notified of a successful updation of the product

Case 2:
When I click the 'Cancel' button
☑ Modifications to the product are not reflected in the database | High | FAIL
✕ | 24/09/2020 (Sprint 4) | Tested locally 4x with a registered 'seller' account.

Instantaneous to <2 seconds response time (local test).

Product is reflected in the database, but images added to the product is not shown in the website.

Must not release until requirements are met. |

| Edit Items Information (cont.) | **Unsuccessful editing of items information.**

⊙ Given my role of a seller (registered and logged in)
⊙ Given my current page is the Seller Dashboard
⊙ Given that I have added some products

When I click the 'Actions > Edit' button on an existing product
☑ I will be redirected to the selected product's page
I modify the product details and attributes incorrectly (random combinations – incomplete data, random combinations of invalid data, e.g. enter letters when a quantity is expected)

Case 1:
When I click the 'Save'/'Save and continue editing' button
☑ Modifications to the product are not reflected in the database
☑ I will be notified of an unsuccessful modification of the selected product, with the error highlighted and shown clearly

Case 2:
When I click the 'Cancel' button
☑ Modifications to the product are not reflected in the database | High | PASS ☑ | 24/09/2020 (Sprint 4) | Tested locally 6x with a registered 'seller' account and random combinations of invalid values.

Instantaneous to <2 seconds response time (local test).

Must not release until requirements are met. |

View Items As a user, I want to see the information of items, so I can make the decision to purchase the item.	**Viewing item details.** ⊘ Given my role of any website user (guest/buyer/seller) ⊘ Given my current page is the Home Page (http://127.0.0.1:8000/catalogue/) When I click on an existing product from the list of products (click the product image or text) ☑ I will be able to view the product description and information (attributes) ☑ I will be able to view the product's stock ☑ I will be able to view the reviews from customers of the selected product	High	PASS ☑	25/09/2020 (Sprint 4)	Tested locally 12x with various items of different descriptions, attributes and accounts (guest, buyer, seller). Instantaneous to <2 seconds response time (local test). Must not release until requirements are met.
Items Sorting As a user, I want to be able to sort my search result so I can easily visualize the product that matches my product's criteria.	**Sorting of items (after item search).** ⊘ Given my role of any website user (guest/buyer/seller) ⊘ Given my current page is the Home Page (http://127.0.0.1:8000/catalogue/) ⊘ Given that I have entered a valid keyword and searched for products containing that keyword I set various sorting methods to sort the search results (relevancy, customer rating, newest, price – low to high/high to low, and title – A to Z/Z to A). ☐ I will be able to view all the relevant items containing the search keyword, sorted accordingly	Low	FAIL ✗	25/09/2020 (Sprint 4)	Tested locally 14x with different sorting methods (relevancy, customer rating, newest, price (low to high/high to low) and title (A to Z/Z to A). **Tested search and sort with 4 products of various prices and attributes, all sorting methods yield the same search results.** Instantaneous to <2 seconds response time.

| Website Administrator Controls – Product Types | **Adding product types.**

⊙ Given my role of a website admin (registered and logged in superuser account)
⊙ Given my current page is the Admin Dashboard > Product Types

When I click the '+ Create new product type' button
☑ I will be redirected to the 'Add a new product type' page
I fill in the product class details and attributes correctly (random combinations)

Case 1:
When I click the 'Save' button
☑ The product type entered is reflected in the database
☑ I will be notified of a successful addition of the entered product type

Case 2:
When I click the 'Cancel' button
☑ The product type entered is not reflected in the database | Low (will only be defined once by website admin) | PASS ☑ | 21/09/2020 (Sprint 4) | Tested locally 4x with numerous different field combinations.

Instantaneous to <2 seconds response time (local test).

'Cancel' button does not respond appropriately sometimes (after multiple clicks between different tabs), e.g. need multiple clicks to cancel adding product type. |

| Website Administrator Controls – Product Types (cont.) | **Modifying existing product types.**

⊙ Given my role of a website admin (registered and logged in superuser account)
⊙ Given my current page is the Admin Dashboard > Product Types

When I click the 'Actions > Edit product type' button on an existing product type table entry
☑ I will be redirected to the 'Update product type' page
I modify the product class details and attributes correctly (add more than 3 product class attributes)

Case 1:
When I click the 'Save' button
☐ Changes to the selected product type are reflected in the database
☐ I will be notified of a successful modification of the selected product type

Case 2:
When I click the 'Cancel' button
☑ Changes to the selected product type are not reflected in the database | Medium | FAIL
✕ | 21/09/2020
(Sprint 4) | Tested locally 2x with numerous different field combinations.

Instantaneous to <2 seconds response time (local test).

'Save' button does not respond appropriately sometimes, e.g. when nothing is wrong, an error message is still shown but there are no highlighted fields, and when the 'Code' field is left empty, some fields will result in an error; by default, if the 'Code' field is empty, the 'Code' field will be same as the 'Name' field, lowercased.

'Cancel' button does not respond appropriately sometimes (after multiple clicks between different tabs), e.g. need multiple clicks to cancel adding product type. |