Test Plan: NosugerShop

Project: Jira Functional Testing

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1. Introduction

This document outlines the business requirements for developing the NoSugarShop.ro online store. The store's purpose is to provide food products to individuals following sugar-free, low-carb, keto, diabetic, and healthy diets.

1.1 Project Objective

* **Increase sales** by providing an easy-to-use platform for purchasing sugar-free, low-carb, keto, and other dietary food products.
* **Enhance customer loyalty** by offering a wide range of high-quality products at competitive prices.
* **Improve the customer experience** through an intuitive website design, a seamless checkout process, and fast delivery.
* **Gather customer data** to better understand their needs and personalize offerings.
  1. Functionalities in Scope

For this version of the application the functionalities in the scope of testing are:

* **Product Catalog:**
  + Detailed product presentations, including images, descriptions, nutritional values, and allergen information.
  + Product filtering based on diet type (sugar-free, low-carb, keto, diabetic, etc.), brand, price, and other relevant criteria.
  + Advanced search functionality to find specific products.
  + Adding products to favorites for later addition to cart.
* **User Accounts:**
  + Users can create accounts to save personal information, track order history, and benefit from personalized promotions.
  + A personal account area where users can manage shipping addresses, payment methods, and preferences.
* **Favorite module and Shopping Cart**
* Users can add products to their cart and in favorite, and modify quantities.
* A straightforward checkout process with multiple payment methods (online, cash on delivery, etc.).
* Flexible delivery options with transparent pricing.

1.3 Functionalities and Tests Out of Scope

* All the other modules except registration module and favorite will not be tested throughout this project (for which this the test plan is being done)
* Non-functional testing like performance (stress testing, load testing, volume testing, scalability testing, spike testing) and security is beyond the scope of this project.
* No QA support for mobile applications developed. Only web applications will be tested.
* Automation testing is beyond scope

2. Test Process

2.1. Test Planning

|  |  |
| --- | --- |
| Role 1 | Test Lead - Will monitor the proper functionality of the test process, the involvement of the teams and the reach of the defined deadlines |
| Role 2 | will test: User registration and add favorite module |
| Role 3 | Will test: Ensure user accounts are created successfully with valid information. |
| Role 4 | Will test: Identify and report any errors or bugs encountered during registration |
| Role 5 | Will test: Validate data validation rules for all user input fields. |
| Role 6 | Will test Test the user experience of the registration flow |
| Role 7 | Will test Verify the user can successfully add products to their favorite list |
| Role 8 | Will test: Managing Favorites list for different user accounts. |
| Role 9 | Will test: The product has been deleted/remove from your Favorites |
| Role 10 | Will test: The product has been add to cart |
| Role 11 | Will test: Can view detail of product in Favorites |
| Role 12 | Will test: View info about the detail of prises |

**Test Objectives for registration module**

* Verify the functionality of the registration process.
* Ensure user accounts are created successfully with valid information.
* Identify and report any errors or bugs encountered during registration.
* Validate data validation rules for all user input fields.
* Test the user experience of the registration flow.

**Test objectives for add favorite module**

* Verify the user can successfully add products to their favorite list.
* Ensure various product types (simple, variants, etc.) can be added to favorites.
* Confirm the favorite list is accessible and displays accurate information.
* Test the removal of products from the favorites list.
* Evaluate the overall user experience of adding and managing favorites.

2.1.2. Identify Test Cases:

**For *favorite* module:**

Test cases

* Add a product to favorites
* View the favorites list
* Empty favorites list
* Remove a product from favorites
* Add multiple products to favorites
* Adding the selected product from favorite list into cart

**For *registration* module:**

Test cases

* Register with valid username, password, and email
* User login impact on favorites list
* User logout impact on favorites list

2.2. Test Analysis

In this phase we will analyze the business requirements that were provided and we will create test conditions based on the received requirements.

2.3 Test Design

Creating Detailed Test Cases with Clear Steps and Expected Outcomes:

(EPIC)

Favorites Module:

This module would likely allow users to save products they find interesting or plan to purchase later for easy access.

Favorites module in a NoSugarShop app could offer:

* **Save products for later:** Users can easily add products they find interesting or plan to purchase later to their Favorites list. This allows them to quickly revisit these products without having to search for them again.
* **Easy access to frequently purchased items:** Users can build a personalized list of their favorite keto, sugar-free, or other dietary-specific products. This makes it convenient for repeat purchases.
* **Manage and organize favorites:** Users can add notes to their favorite items, categorize them (e.g., breakfast staples, keto snacks), or prioritize their list based on purchase intent. This helps with organization and future planning.
* **Sync favorites across devices:** If the NoSugarShop app allows account logins, users can sync their Favorites list across different devices (phone, tablet) for seamless access.
* **Notifications for price drops or restocks:** The app could potentially notify users if a product on their Favorites list goes on sale or becomes available again if it was out of stock.

Overall, a Favorites module would enhance the user experience by personalizing product discovery and simplifying the shopping process for repeat customers. It can encourage loyalty and potentially increase sales for NoSugarShop.

Story 1:

Add Products to Favorites List

**As a user, I want to be able to add products to my Favorites list so that I can easily find them later and consider purchasing them.**

**Test conditions:**

* The user should be able to see an "Add to Favorites" button or icon on the product detail page.
* Clicking the "Add to Favorites" button should add the product to the user's Favorites list.
* The user should be able to see a confirmation message or visual cue indicating successful addition.
* The added product should be displayed in the user's Favorites list.
* The user should be able to add multiple products to the Favorites list.
* Duplicate entries of the same product should not be added to the Favorites list. (Optional)

**Test Case 1:**

Verify that the "Add to Favorites" button or icon is present on the product detail page.

**Pre-Conditions:**

* Launch the e-commerce application.
* Browse or search for a specific product.

**Test Steps:**

1. Navigate to the product detail page for the chosen product.
2. Visually inspect the product detail page for the presence of an "Add to Favorites" button or icon.
3. Verify that the button/icon is clearly labeled or visually identifiable

**Expected Results:**

* An "Add to Favorites" icon should be clearly visible on the product detail page.
* The icon should be positioned near the product image or description.

**Test Case 2:**

Test adding a product to the Favorites list when the user is logged in:

* Click the "Add to Favorites" button on the product detail page.
* Verify that successfully added to favorites list and "heart" image turns gray once the product is added and the number of products in it appears in the favorites.
* Navigate to the Favorites list and verify that the added product is displayed with details like name, image, and price.

**Pre-Conditions:**

* Verify that the user is logged with valid login credentials for the e-commerce app.
* Verify that the user is logged out of the app.

**Test Steps:**

1. **Login:** Use the valid test account credentials to log in to the e-commerce app.
2. **Browse Products:** Navigate to a product listing page or search for a specific product.
3. **Open Product Details:** Select a product you want to add to your Favorites list.
4. **Identify "Add to Favorites"**: Look for a icon labeled "Add to Favorites,"or similar terminology. This button should be clearly visible and actionable.
5. **Add to Favorites:** Click on the "Add to Favorites" icon.
6. **Verify Confirmation:** Expect to see a confirmation message or visual cue indicating successful addition to the Favorites list. Example: "heart" image turns gray once the product is added.
7. **Access Favorites List:** Navigate to the dedicated section for viewing the user's Favorites list (e.g., Favorites menu, Wishlist page).
8. **Verify Product Addition:** Confirm that the product you added in step 5 is now displayed in your Favorites list. Check if the product information (name, image, price) is accurate and matches the product details page.

**Expected Result:**

* The user should be able to successfully add the product to their Favorites list after logging in and performing the steps above.
* The added product should be visible and accessible within the user's Favorites list

**Test Case 3:**

Test adding a product to the Favorites list when the user is **not** logged in:

* Click the "Add to Favorites" button on the product detail page.
* Verify that the product is added to a temporary Favorites list or a confirmation message appears indicating the need to log in to save the list permanently.

**Pre-Conditions:**

* The user is not logged in to the e-commerce app.
* A product detail page with an "Add to Favorites" button is accessible.

**Test Steps:**

1. Navigate to a product detail page for any product in the e-commerce app.
2. Verify the presence of an "Add to Favorites" icon on the product detail page.
3. Click on the "Add to Favorites" button.

Expected Result:

 A confirmation message appears indicating successful addition to the Favorites list (even if not accessible).

 A visual cue appears (e.g., highlighted button, icon change) to indicate successful addition.

**Test Case 4:**

**Test adding multiple products to the Favorites list.**

* Click the "Add to Favorites" button on the product detail page.
* Verify that successfully added to favorites list and "heart" image turns gray once the product is added and the number of products in it appears in the favorites.
* Navigate to the Favorites list and verify that the added product is displayed with details like name, image, and price.

**Pre-Conditions:**

* Launch the e-commerce app.
* Ensure you are logged in to your user account (if applicable).
* Browse the product catalog and identify at least two different products you want to add.

**Test Steps:**

1. Navigate to the product detail page for the first product.
2. Verify the presence of an "Add to Favorites" icon on the product detail page.
3. Click the "Add to Favorites" icon.
4. Verify a confirmation message that indicating successful addition.
5. Navigate back to the product catalog or search results.
6. Repeat steps for the second product (or another distinct product).
7. Verify the presence of an "Add to Favorites" icon on the product detail page.
8. Click the "Add to Favorites" icon.
9. Verify a confirmation message that indicating successful addition
10. Access your Favorites list through the dedicated menu option or icon.
11. Verify that both the first and second products are displayed in your Favorites list.
12. Verify that duplicate entries were not created for the same product, even if you accidentally clicked "Add to Favorites" multiple times for the same product.

**Expected Result:**

* Both products should be displayed in your Favorites list with their basic information.
* No duplicate entries should be present for the same product.

***Story 2:***

***Manage Favorites List***

**As a user, I want to be able to manage my Favorites list so that I can keep it organized and up-to-date.**

**Test conditions:**

* The user should be able to view their Favorites list.
* The user should be able to remove a product from the Favorites list.
* The user should be able to see details of each product in the Favorites list (e.g., product name, image, price).
* The user should be able to see a confirmation message or visual cue indicating successful removal.
* The removed product should no longer be displayed in the Favorites list.
* The user should be able to add removed in cart a favorite products.

***Test Cases:***

**Test Case 1:**

Verify that the Favorites list displays all previously added products with basic information like name, image, and price.

**Pre-Conditions:**

* The user has a registered account and is logged in to the application
* The user has previously added at least one product to their Favorites list.

**Test Steps:**

1. **Access the Favorites List:**
   * Navigate to Favorites list.
2. **Verify List Content:**
   * Verify if the list displays all products previously added by the user.
   * Verify that the basic information is displayed for each product in the list:
     + **Product Name:** The full name or title of the product.
     + **Product Image:** A clear and recognizable image of the product.
     + **Price:** The current price of the product and the price reduction applied for the displayed product.
3. **Validate Data Accuracy:**
   * For a randomly selected product from the list, compare the displayed information (name, image, price) with the actual product details on their respective product pages. Ensure the information matches..

**Expected Result:**

* The Favorites list displays all previously added products.
* Each product entry displays the correct name, image, and price and the price reduction applied for the displayed product.
* The displayed information accurately reflects the actual product details.

**Test Case 2:**

Verify that a Remove from Favorites icon is present for each product in the list.

**Pre-Conditions:**

* The user has a registered account and is logged in to the e-commerce app.
* The user has previously added at least one product to their Favorites list.

**Test Steps:**

1. **Access the Favorites List:** Navigate to the section within the app that displays the user's Favorites list.
2. **Verify List Contents:** Confirm that the Favorites list displays the products the user has previously added.
3. **Inspect Each Product:** Systematically examine each product displayed in the Favorites list.
4. **Look for Remove Icon:** For each individual product, verify the presence of a "Remove from Favorites" icon or button.

**Expected Results:**

* The user successfully accesses their Favorites list.
* The Favorites list displays all previously added
* A "Remove from Favorites" icon or button is present for each individual product displayed in the list.
* The icon has a clear and intuitive design that signifies removal functionality.
* The icon is positioned consistently and easily accessible for each product.

**Test Case 3:**

Confirm that clicking "Remove" successfully removes the selected product from the Favorites list.

**Pre-Conditions:**

1. The user has successfully logged in to the e-commerce app (if required).
2. The user has at least one product added to their Favorites list.

**Test Steps:**

1. **Navigate to the Favorites list.**
2. **Identify a product you want to remove.**
3. **Locate the "Remove" button or icon associated with the chosen product.**
4. **Click the "Remove" button.**
5. **Expected Result:** The product should disappear from the Favorites list immediately, or after a short confirmation animation.
6. **Alternate Expected Result (Optional):** A confirmation message might appear asking the user to confirm the removal (e.g., "Are you sure you want to remove this product?"). Click "Yes" or the appropriate confirmation option if presented.
7. **Verify the product's absence.** Scroll through the remaining list or use search functionality to confirm the removed product is no longer present.

**Test Case 4:**

**A**dding a selected product from Favorites list in to cart.

**Pre-Conditions:**

1. The user has an account and is logged in to the e-commerce app. (If applicable)
2. The user has at least one product added to their Favorites list.

**Test Steps:**

1. **Navigate to the Favorites List:**
2. **Verify Favorites List Content:**
3. **Select** a specific product from the Favorites list you want to add to the cart.
4. **Initiate Adding to Cart:**
   * Look for an "Add to Cart" button or similar functionality associated with the chosen product.
5. **Confirmation and Cart Access:**
   * Verify that clicking "Add to Cart" triggers a confirmation message or visual cue indicating successful addition.
   * Access the shopping cart section of the app (usually through a dedicated icon or menu option).
6. **Cart Verification.** Confirm that the selected product from the Favorites list is now present in the shopping cart with all information (name, image, quantity, price)

**Expected Results:**

* The user should be able to navigate to their Favorites list without difficulty.
* The Favorites list should display all previously added products.
* Selecting a product and clicking "Add to Cart" should successfully add the product to the shopping cart.
* A confirmation message or visual cue should indicate successful addition.
* The chosen product should appear in the shopping cart with accurate information

**Test Case 5:**

Verify that the user can access their Favorites list through a dedicated menu option or button.

**Pre-Conditions:**

* The user has a registered account and is logged in to the e-commerce app.
* There may be existing products added to the Favorites list

**Test Steps:**

1. **Launch the e-commerce app.**
2. **Navigate to the main screen or dashboard.**
3. **Identify the expected location for the Favorites list access point.** This could be:
   * A dedicated "Favorites" menu option within the navigation bar.
   * A heart icon or similar symbol in the user profile section (if applicable).
   * A separate "Favorites" tab on the main screen (depending on the app design).
4. **Depending on the identified location:**
   * If it's a menu option: Click on the "Favorites" menu option or similar text label.
   * If it's an icon: Tap on the heart icon or similar symbol.
   * If it's a tab: Navigate to the "Favorites" tab on the main screen.

**Expected results:**

The user should be successfully directed to the Favorites list screen. This screen should display a list of all their previously added favorite products, or an empty list if no products have been added yet.

2.4. Test Implementation

* We make sure that all the test data is available and reviewed (test data= email examples, password examples, different type of currency, different types of credit cards)
* We make sure that the setup environment is up and running
* We make sure that we have all the needed access and permissions to all the systems involved in the validation process
* We prioritize the tests based on risks (if known) and business priority

2.5. Test Execution

* tests will be executed on the top 4 used browsers: Chrome, Mozilla Firefox, Microsoft Edge, Apple Safari. If time will be available we will extend tests on Opera and Brave browsers
* We will create bug reports when the expected results that were defined in the test cases are different from the actual results
* We will perform retesting and regression testing to make sure that all the bugs have been fixed and no previously working functionality was not affected by the changes
* We will generate the test status reports once a week and send them to the management team in order to provide them with means to monitor the testing process and take measures in case new risks are identified

2.6. Test Closure

We will generate the test completion report and send it to stakeholders in order to inform them about the testing process results and enhance them with the ability to make informed decisions with regards to the product launching.

2.7. Test monitoring and control:

We will evaluate the test status reports and monitor them all throughout the testing process in order to ensure a smooth testing and team collaboration and in order to make sure that new risks are identified in time and managed accordingly

In case new risks will appear they will be mitigated or a contingency plan will be set in place to make sure that the negative effects will not stop us from fulfilling the testing objectives that were defined in the planning phase.