Unit Test Plan

Introduction

This plan describes the testing approach that will serve as the fundamental strategy for a single app. The purpose of the app is to provide the user with a list of handmade teddy bears that they can purchase with simple actions. It will be built only for web use.

The product requirements for the MVP are as follows:

• A list view page, showing all items available for sale.
• A single product page (using URL query parameters), which will dynamically show the item selected by the user, display a description and price in dollars, and allow users to personalise the product and add it to their cart.
• A cart page (using the localStorage JavaScript functionality), showing a summary of products in the cart, the total price, and a form with which to submit an order.
• An order confirmation page, thanking the user for their order, showing the total price and the order ID returned by the server.

Features to Test

1. A user can access the list view page, showing all items available for sale
   • Frontend:
     • User can load page and view all available items
   • Backend:
     • Calling API endpoint adds item to database that persists between sessions and return correct JSON data

2. A user can view a single product page, which will dynamically show the item selected by the user.
   • Frontend:
     • Display a description and price in dollars, and allow users to personalise the product and add it to their cart.
   • Backend:
     • Verify that API endpoint updates the status of the item between sessions and returns correct JSON data

3. A user can add an item to the cart
   • Frontend:
     • User can click on call to action to add item to cart
   • Backend:
     • Verify API endpoint adds item to cart

4. A user receives confirmation of order upon detail validation being completed
   • Frontend:
     • Confirmation page displays total price and a unique order ID
   • Backend:
     • Verify API endpoint confirms action