What's It Worth?

Senior Project Test Plan

INTRODUCTION

This Test Plan for “What’s It Worth?” lays out a series of actions to be performed to test the functionality of “What’s It Worth?”. The test plan is written with the assumption that the tested is familiar with the “What’s It Woth?” application and has thoroughly read the User Manual. "What's It Worth?" is a desktop application that allows users to calculate and track the market price of the materials in their jewelry. The only user is the person using the application, whether it is a investor or an average retail customer. Some key features that will be included are user account management, jewelry item management, reports on investments, live pricing data integration for precious metals and diamonds, advanced valuation calculator, informational resources and links, and secure data storage measures.

PROBLEM REPORTING

During your test run or continued usage of “What’s It Worth?”, you may encounter issues or bugs. There is a method to report the errors that you encounter so that they can be fixed for future users of the application. If at any time during your usage of the “What’s It Worth?” application you believe that something other than what is described below occurs, you may visit the Resources page at https://bebadinia.github.io/ to contact the development team through the support panel at the bottom. However, multiple debugging message boxes appear with specific errors if a certain functionality is not working. Please write these down so that when contacting support, we are better able to assist you.

HOW TO USE THIS PLAN

This document is designed to cover each functionality in detail through the testing of each of the editable items, buttons and pages. This is so the tester can thoroughly confirm the working stat of the application.

The tests to be performed on the “What’s It Worth?” applications are given in a table format. The “ACTION” column corresponds to the action that a tester should perform. The “EXPECTED RESULT” column corresponds to the expected result when an action is performed. The “LIMITS/NOTES” column corresponds to a potential vulnerability or inconsistency with what the is to be expected. Lastly, the “CHECK/PROBLEM/NOTES” column is for the testers convenience to track is everything is working properly. By using this, the tester can keep track of and bugs/errors are report the problem as previously stated.

Special wording is used in the table to help identify the actions to take:

- ‘**click**’ means move the mouse so that the cursor is over the item and click the left button on the mouse once.
- ‘**select**’ means to find the menu item given and click it with the left button on the mouse.
- ‘**type**’ means move the mouse and click over a text field click it with the left button on the mouse, then use the keyboard to type characters.

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After starting up the application, you should be greeted with the DB Connected Message Box.

DB Connected Message Box

Table 1: Main Homepage

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM/NOTES
Click "OK" button	Close Message Box and load Login Page	Might show DB Error. Make sure to check connection string.	

Login Page

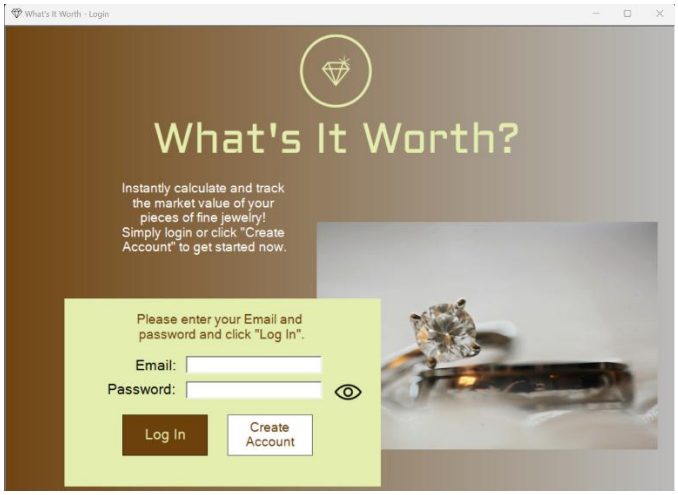

Table 2: Login Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Type into "Email" textbox	Should take in and display user input	Input is Case-Sensitive, cannot be empty, and is in email format.	

Type into “Password” textbox	Should take in and hide user input	Input is Case-Sensitive and cannot be empty.	
Click on eye button to the right of “Password” textbox.	Should display/hide user input in “Password” textbox	Alternates between display and hide with each click.	
Click on “Log In” button	Hide Login Page and Load Home Page	Will only login if both textboxes have inputs, there is an existing email in the system, and a valid password to that email.	
Click on “Create Account” button	Hide Login Page and Load Create Account Page		

Create Account Page

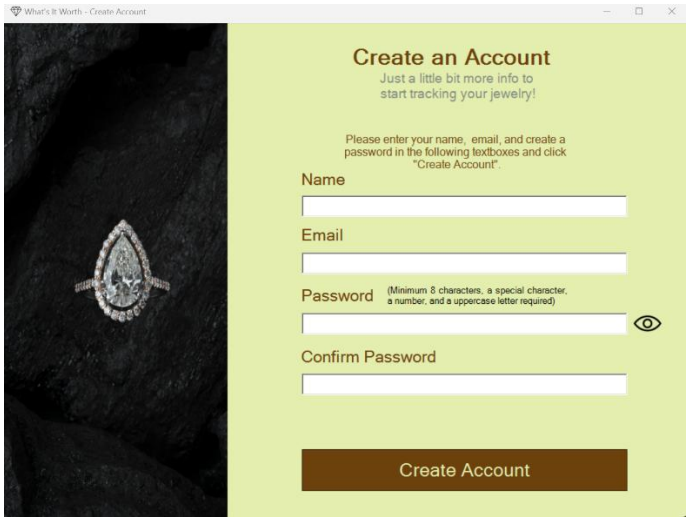

Table 3: Create Account Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Type into “Name” textbox	Should take in and display user input	Cannot be empty.	
Type into “Email” textbox	Should take in and display user input	Cannot be empty and is in email format.	
Type into “Password” textbox	Should take in and hide user input	Cannot be empty and must follow the format specified.	
Click on eye button to the	Should display/hide user	Alternates between display and hide with each click.	

right of “Password” textbox.	input in “Password” textbox		
Type into “Confirm Password” textbox	Should take in and hide user input.	Cannot be empty and must have the same text value as the “Password” textbox.	
Click on “Create Account” button	Close Create Account Page and Reopen Login Page	Will only create account if all textboxes have inputs that follow the required formatting.	

Home Page

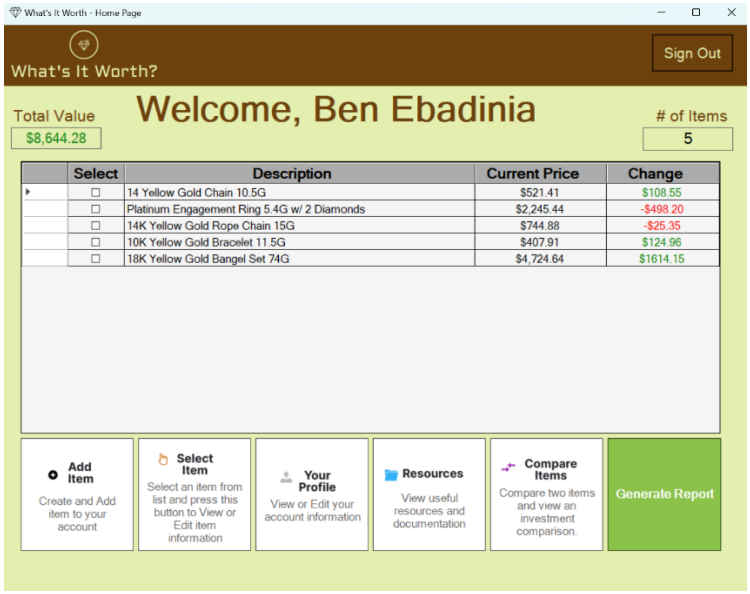

Table 4: Home Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on “Add Item” button	Hide Home Page and Load Add Item Page		
Click on “Select Item” button	Hide Home Page and Load View Item Page	Item must be selected from list of items before clicking on the button.	
Click on checkbox in “Select” column from the list	Should highlight item row and allow for “Select Item” to open View Item Page.	Will deselect all other checkboxes as only one can be selected at a time.	

Click column header of list.	Should reorganize based on column selected.		
Click on “Your Profile” button	Hide Home Page and Load View Account Page		
Click on “Resources” button	Open resources webpage	Internet access is required	
Click on “Compare Items” button	Hide Home Page and Load Compare Items Page		
Click on “Generate Report” button	Hide Home Page and Load Generate Report Page		
Click on “Sign Out” button	Close Home Page and Reopen Login Page	Textboxes for Login Page should be cleared.	

Add Item Page

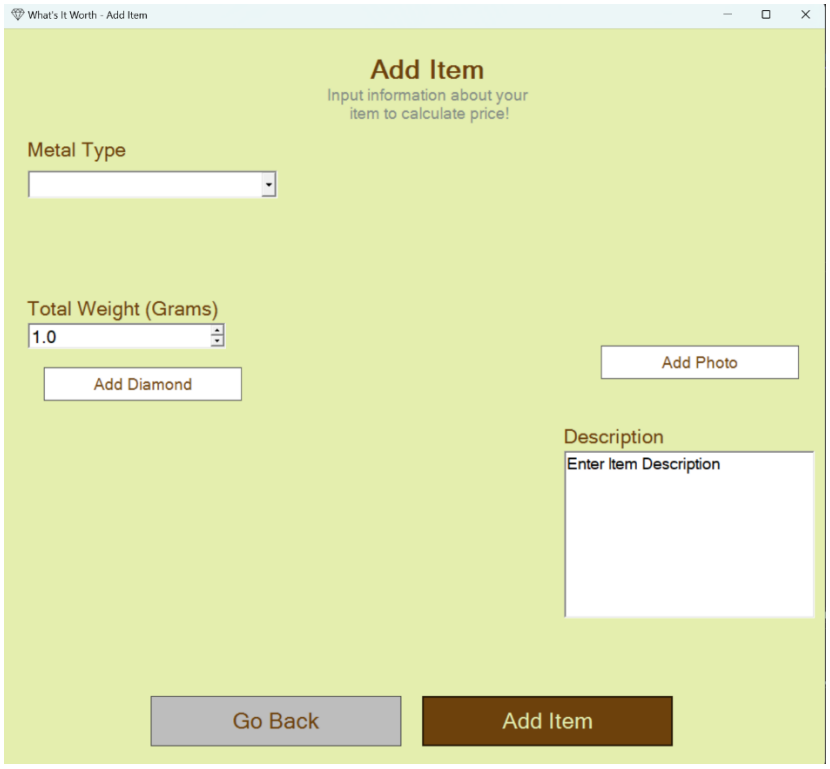

Table 5: Add Item Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Select “Metal Type” from combo-box	Should take in and display user selection.	Cannot be empty. If ‘*Gold*’ is selected from combo-box then a “Metal Purity” textbox will be displayed and a selection will need to be made.	
Click or Type into “Total Weight (Grams)” numerical spinner	Should take in and display user input.	Cannot be empty and minimum weight is 1.0.	
Click on “Add Diamond” button	Load Add Diamond Page		
Click on “Add Photo” button	Open folder navigator	User will need to navigate to folder and select ‘Open’ from folder.	
Type into “Description” textbox	Should take in and display user input.	If description is not input or is empty, one will be autogenerated for the item.	
Click on “Go Back Button”	Close Add Item Page and Reopen Home Page		
Click on “Add Item” button	Close Add Item Page and Reopen Home Page	If all rules are followed and necessary selections are made, then item will be created and added to user account. Home Page list should automatically update with new item.	

Add Diamond Page

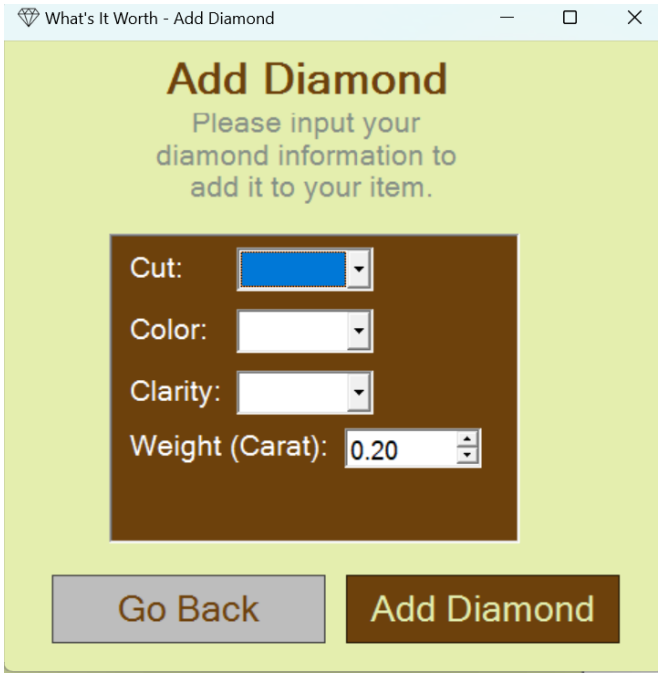

Table 6: Add Diamond Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Select "Cut" from combo-box	Should take in and display user selection.	Cannot be empty.	
Select "Color" from combo-box	Should take in and display user selection.	Cannot be empty.	
Select "Clarity" from combo-box	Should take in and display user selection.	Cannot be empty.	
Click or Type into "Weight (Carat)" numerical spinner	Should take in and display user input.	Cannot be empty, minimum weight is 0.20, and maximum is 10.0.	
Click on "Go Back Button"	Close Add Diamond Pag.		
Click on "Add Diamond" button	Close Add Diamond Page	If all rules are followed and all selections are made, then price retrieval will happen. If diamond is not found, error message will show, and other selections will need to be made. If diamond is found, the page will close and a table	

		with all added diamonds will be displayed on Add Item page.	

View Item Page

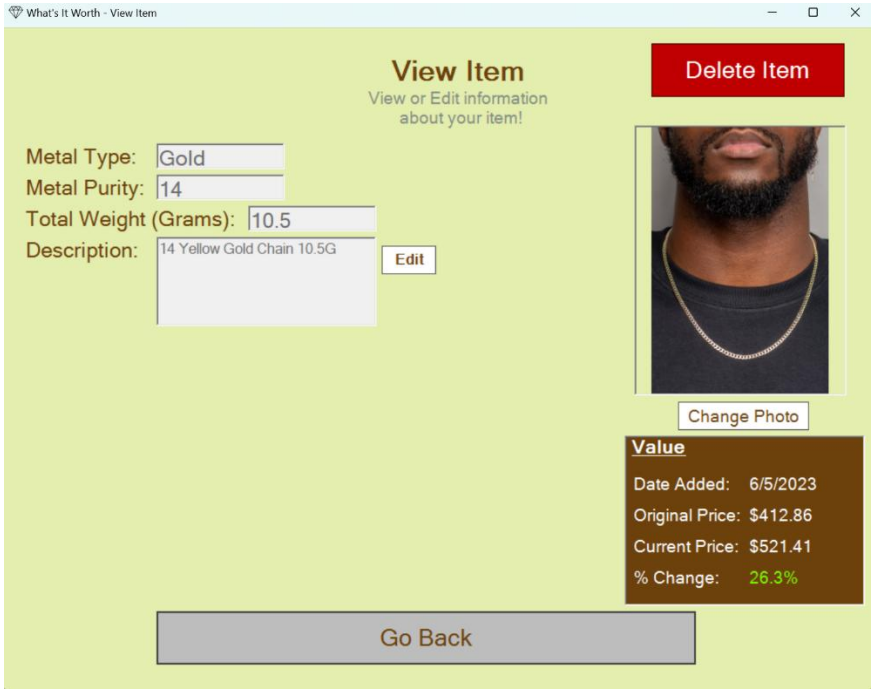

Table 7: View Item Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on "Edit" button	Should allow user to type into "Description" textbox.		
Click on "Change Photo" button	Open folder navigator	User will need to navigate to folder and select 'Open' from folder.	
Type into "Description" textbox	Should take in and display user input.	If description is not input or is empty, one will be autogenerated for the item.	
Click on "Go Back Button"	Close View Item Page and Reopen Home Page		
Click on "Delete Item" button	Load Delete Item Confirmation Page		

Delete Item Page

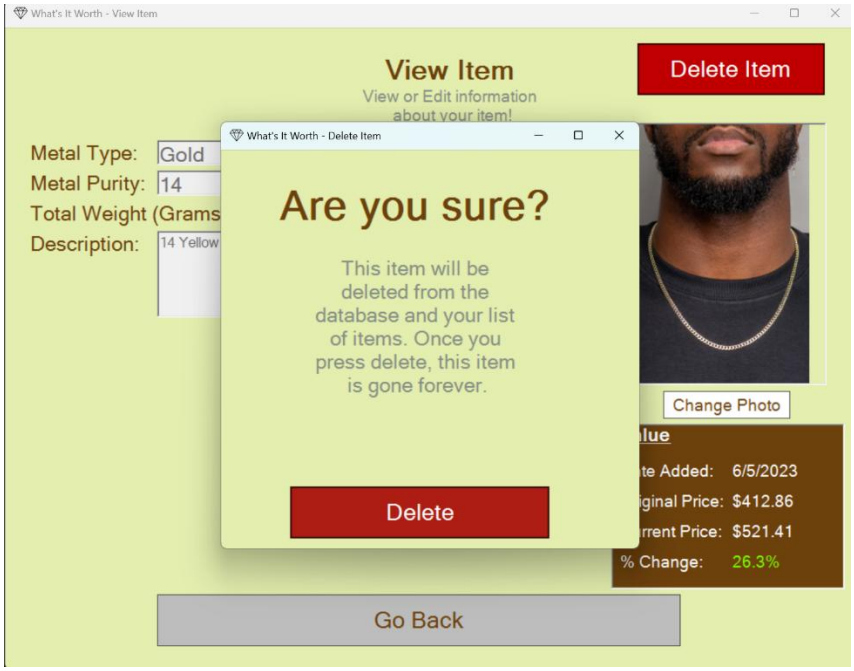

Table 8: Delete Item Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on "Delete" button	Close Delete Item Page, Close View Item Page, and Reopen Home Page	Item should be removed from list on Home Page	
Click on 'x' on window	Close Delete Item Page		

View Account Page

Table 9: View Account Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on "Edit Account" button	Load Edit Account Page		
Click on "Go Back" button	Close View Account Page and Reopen Home Page		
Click on "Delete Account" button	Load Delete Account Page		

Edit Account Verification Page

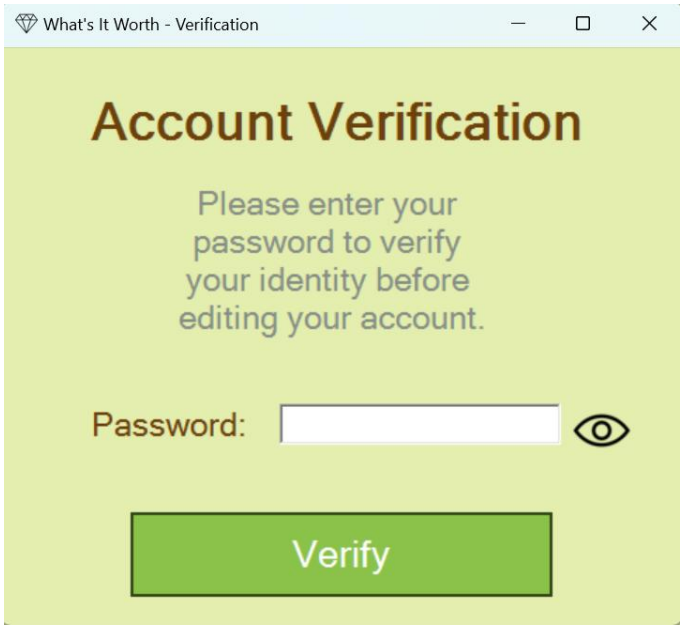

Table 10: Edit Account Verification Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Type into "Password" textbox	Should take in and hide user input	Input is Case-Sensitive and cannot be empty.	
Click on eye button to the right of "Password" textbox.	Should display/hide user input in "Password" textbox	Alternates between display and hide with each click.	
Click on "Verify" button	Close Edit Account Verification Page. Allow for user to edit and save the data in the textboxes for View Account Page.	Textbox cannot be empty and user input must match password in database.	
Click on 'x' on window	Close Edit Account Verification Page		

Delete Account Page

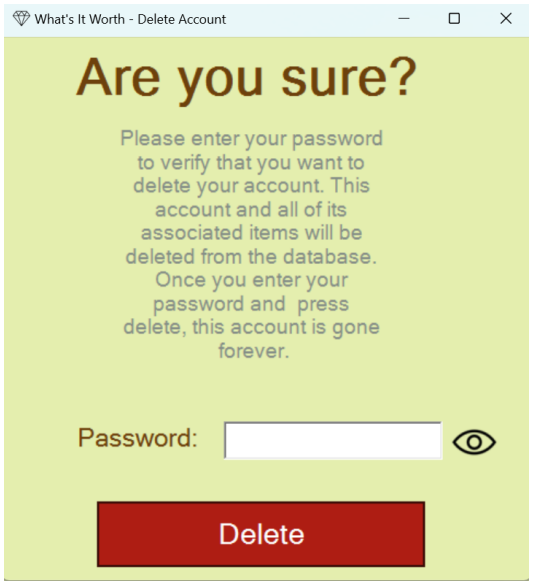

Table 11: Delete Item Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on "Delete" button	Close Delete Account Page, Close View Account Page, Close Home Page, and Reopen Login Page	Textbox cannot be empty and user input must match password in database. If correct, User account and items should be removed from database. User should not be able to log back it on Home Page	
Click on 'x' on window	Close Delete Account Page		
Type into "Password" textbox	Should take in and hide user input	Input is Case-Sensitive and cannot be empty.	
Click on eye button to the right of "Password" textbox.	Should display/hide user input in "Password" textbox	Alternates between display and hide with each click.	

Resources Webpage

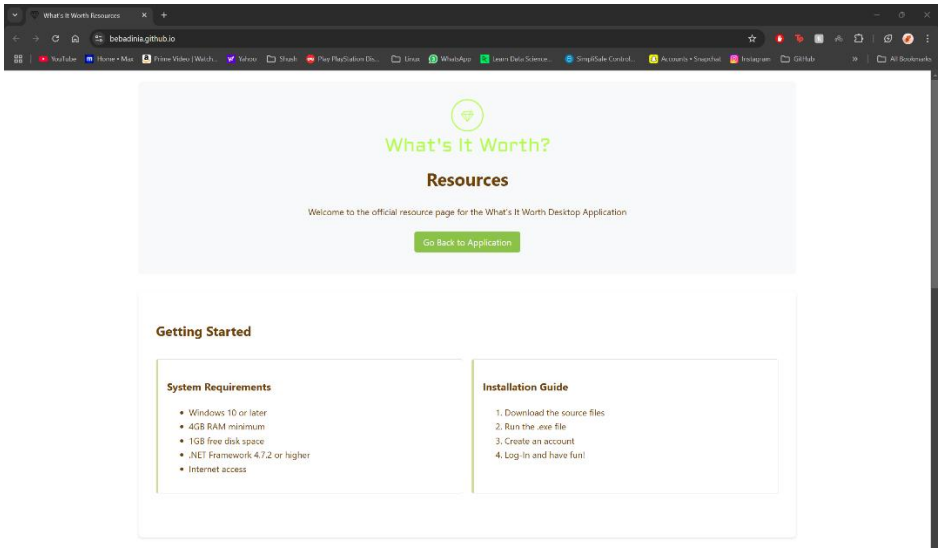

Table 12: Resources Webpage

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on "Go Back to Application" button	Close Resources Webpage		
Click on Kitco "Go There Now" button	Open kitco.com		
Click on IDEX API "Go There Now" button	Open IDEX API page		
Click on Adorn Jewelry "Go There Now" button	Open family store website		

Compare Page

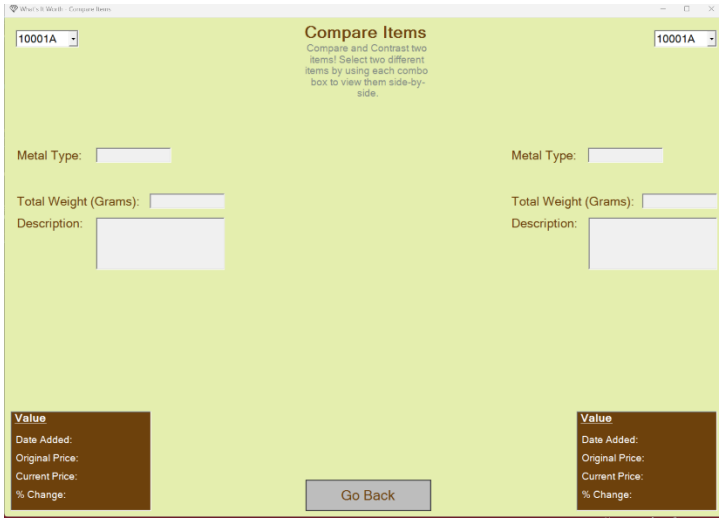

Table 13: View Item Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Select item from top left combo-box	Should display all item information on left side based on combo-box selection.		
Select item from top right combo-box	Should display all item information on right side based on combo-box selection.		
Click on “Go Back Button”	Close Compare Items Page and Reopen Home Page		

Generate Report Page

Table 14: Generate Report Page

ACTION	EXPECTED RESULT	LIMIT/NOTES	CHECK/PROBLEM /NOTES
Click on "Refresh" button from menu bar	Page is refreshed		
Click on "Print" button from menu bar	Load Print Wizard		
Click "Export" button from menu bar	Allow user to select format		
Select "PDF" from "Export" menu	Open folder navigator to find path to save .pdf report.		
Select "Excel" from "Export" menu	Open folder navigator to find path to save .xlsx report.		
Select "Word" from "Export" menu	Open folder navigator to find path to save .docx report.		
Click on "Go Back Button"	Close Generate Report Page and Reopen Home Page		