Software for a Shopping Cart Application

User Manual

Prepared for CS 341: Software Engineering
By Group # 4

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1. Introduction

This user manual describes how to use the software for a computerized personal shopping application. Using this product, a registered user can login and logout of their account, as well as save their personal information such as their shipping address and payment method. A guest user cannot. Both users can search for available items and add them to their shopping cart. After, the shopping cart can be checked out and paid for, using their preferred method of paying. Tax is included. This software uses a database.

1.1. System Requirements
This application will run on a PC with a Windows operating system(XP/Vista/7/8/10).

2. Getting Started

2.1. Website
To start, the user can open a browser and type the website address to the address bar. It will take them to Shopping cart main page shown in Figure 1.
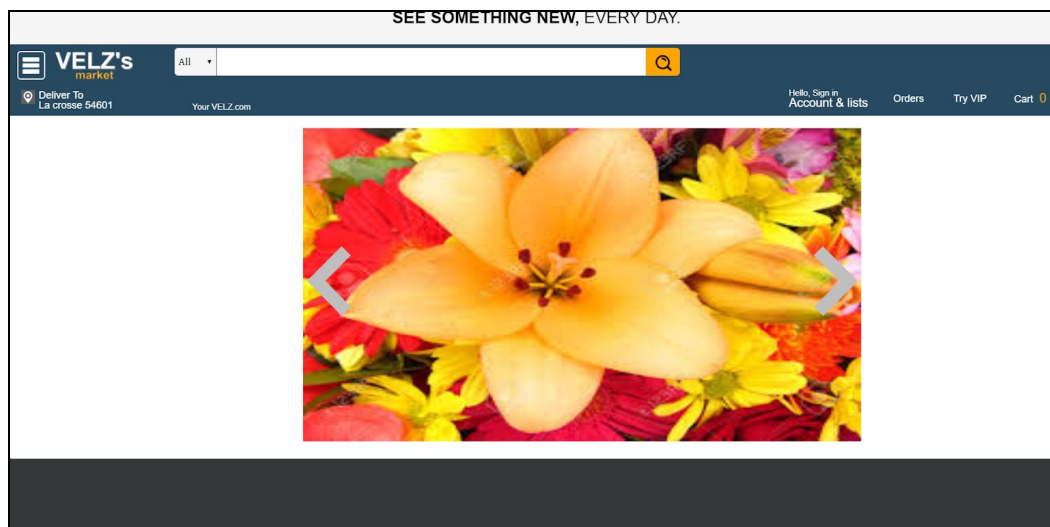
Figure 1. Main Page Screen

2.2. Exceptions
If the user typed the website address and they didn't see the main page, they will need to change different browsers or clear their browsing history, cookies and caches.

3. Cart Operations (Registered User and Guest User)

When dealing with the shopping cart, the user can search for an item using the search box. They can also add, delete, and update an existing item in the cart. Also, they can apply promotional codes to their items to pay an overall, lower price.

Figure 2. Viewing an Item, Screen

3.1. Search for an item

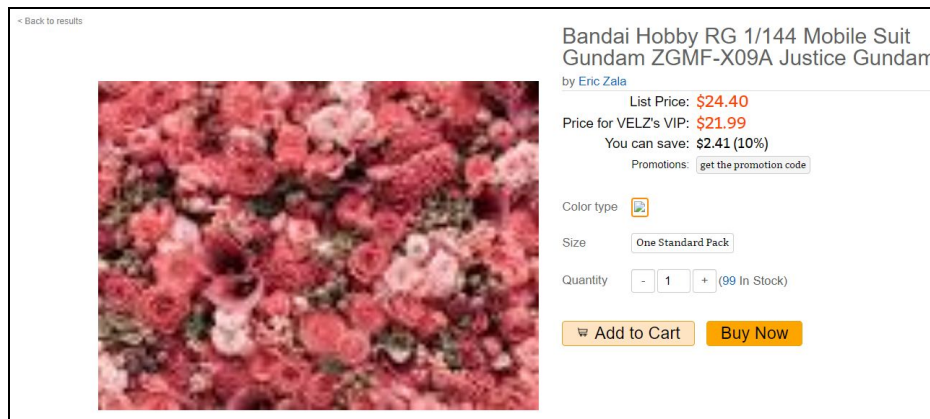A user can search for an item by typing keywords in the search box at the top of the main page. After typing the keywords, when pressing the button next to the search box (the magnifying glass icon), the website will show the results.

3.2. Add an item to cart

To add an item to the cart, the user has two options. The first option is to search for the item. If the item is available and the user clicks on the item, a new window will display the item and its information (e.g. price, promotional codes (if any), quantity, etc.), shown in Figure 2. There will be "Quantity" section where the user can increase or decrease the quantity. The user can click the "-" button to decrease and "+" button to increase the quantity. If the user doesn't prefer that method, they can also click in the box that holds the quantity value and type out the desired value. After obtaining the desired value, the user should press "Add to Cart" which will update the cart and adjust the number of items in the cart accordingly. If the user changes their mind, they can go back by clicking "Back to results" near the top-left.

The other way to add an item only works if the item desired is already in the cart. Assuming this case is true, the user can click on the "Cart" tab at the top of the website and identify where the desired item is in the displayed list. Beside the item should be two buttons, a "-" and a "+". Pressing on the "+" button will increase the number of that particular item in the cart. The price for that item will change accordingly.

3.3. Check out cart

Figure 3. Check Out Screen, Example

To check out their cart, the user can click on the "Cart" tab. There will be a number beside the tab indicating the number of items currently in the cart. When pressing the "Cart" tab, a list containing the items currently in the cart will be listed. To check out all items, press on the "Check out" button. This action will result in a new window prompting the user for their information shown in Figure 3. Below/beside this inquiry will be the items to be checked out along with information about those items such as quantity and price. There will also be a section for applying a promotion code to their respective items. The tax price and the total price is also listed.

After filling out their information and using any promo code (if any), the user can click the "Go to Pay" or the "Cancel" button. Clicking "Cancel" will take the user back to the main page. This action will not change what is in the cart. Clicking "Go to Pay" will result in a new window prompting the user for their payment information. For a registered user, if they have a previous payment method saved (which will be listed under "Your credit and debit cards"), they have the option of choosing that saved payment method or creating a new one. For a guest user, they will have to fill out the payment fields every time they check out a cart.

After choosing their payment information, the user can click on the "Pay Order" button to finish their transaction. If the payment fields are invalid or empty, an error message will appear. If the user is not ready yet, the user can click on "Back" and return to the check out page. If everything is well and the "Pay Order" button is clicked, a new window will be displayed, showing the receipt of their order. The cart has been checked out.

3.4. Delete item from cart

To delete an item from the cart, the user should click on "Cart" to view their current orders. When hovering their mouse over the item to be deleted, an "x" button should appear. Clicking on this button will completely remove the item from the list and update the number of items in the cart accordingly.

3.5. Delete all items from cart

When clicking the 'Cart' tab and being given the list of the current items in the cart, the user will have the opportunity to clear all of the items in the cart by clicking on "Clear All". If there are currently items in the cart, those items will be cleared. If there are no items in the cart, nothing will happen.

4. Admin User Operations

These operations are only valid for admin users. An admin user can login and logout of their account. They can also add, delete, and update an item and promotional code in the system. In addition, they can view the information and order history of all users.

4.1. Login

The admin will use a different user name which is isolated from Register User. Admin needs to provide their password to access the Shopping cart.

4.2. Add item to the system

Admin can add the item to the Systems. The items will have price, stock, quantity and Promo code.

4.3. Update item to the system

Admin can update the same item with different description to the System, so the old item will be replaced by the new item.

4.4. Delete item from the system

Admin can delete the item to the Systems. The items will have price, stock, quantity and Promo code.

4.5. Add promo code to the system

Admin can add Promo code to the System, it will need associating with rate, start date, expired date, and Code.

4.6. Update promo code to System

Admin can update Promo code to the System, it will need associating with rate, start date, expired date, and Code. So the old Promo Code will be replaced by the new item.

4.7. Check users' info
Admin can check register users' info when they go to Admin main page.

4.8. Check orders' history
Admin can check register and guest users' order history when they click the "order history" which is located in the admin page.

4.9. Logout
There is a logout button. When admin clicks the logout, they will log out from the system.

5. Guest User Operations

5.1. Guest user differentiates with register user
Guest User doesn't have a registered account, So Guest user cannot check their order history. Guest User can use Promo Code when they get the Promo Code from the website if they refresh the webpage that means they will lose the Promo Code.

6. Registered User Operations

These operations are only valid for registered users. A registered user can login and logout of their account. The login screen is shown in Figure 4. For potential registered users, a user can also register for an account.
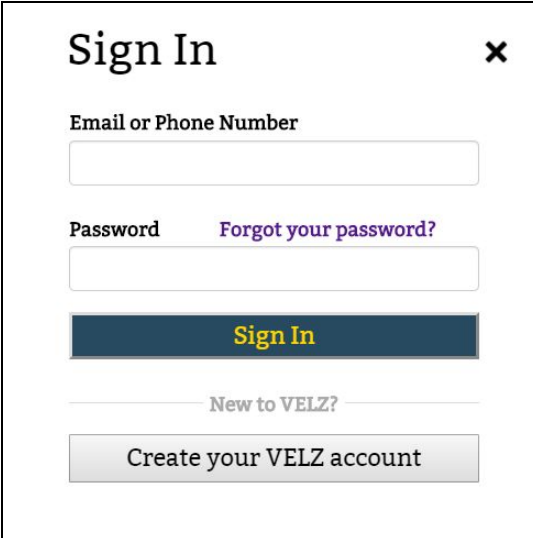

Figure 4. Login Screen

6.1. Login
A registered user can log in by clicking on the tab labeled "Hello, Sign in". After clicking it, a login window will pop up. After entering their email or phone number and entering their

password, pressing the "Sign In" button will log the user into their account. If the email or password is somehow invalid, an error message will appear.

6.2. Logout
To logout, the user should click on the "Sign Out" button at the top-right corner. This action will log the user out of their account and return them to the main page.

6.3. Register for an account
To register for an account, the user should click on the "Hello, Sign in" button. In the window that pops up, the user should click the "Create your VELZ account" button. A new page will appear, prompting the user to fill out the form to start their account. If any fields are invalid, upon clicking the "Create your VELZ's account" button, an error message will appear. If all fields are valid, clicking the "Create your VELZ's account" will result in a new page indicating success in registration. The user is now a registered user.

6.4. View order history
To view the user's order history, the user should click on the "Orders" button at the top of the website. This action will display the user's order(s).

Glossary

Shopping Cart - the entire product is called the Shopping Cart

Register User - the component that has a registered account in the system

Guest User - the component that doesn't a registered account in the system

Admin User - the component that maintains the system, items, order, and Promo code

Promo Code - the component that gives a discount on the item

Order History - the component that admin can check both register and guest users' order history, and register user can check their own order history