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| Iteration Report |
| Iteration 1 |

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**Project goals:**

For our project, we plan on creating an ecommerce website for a sweets shop. We aim to make this website a place where customers can order products from the comfort of their home.

Our goal is to get the following features on the website; Register user, add to cart, checkout cart, search for product, add to wish list, view order history, update stock, view transaction and update profile. Thanks to the fulfillment of all these goals, we want to create a store that will be convenient to use and exceed the expectations of our customers.

**Project feasibility:**

Currently, the project seems within reach for the given time frame as it follows the same structure as previous projects we’ve worked on with some extra added features. During our planning, we took external factors such as other modules, clubs, personal circumstances, etc. into consideration as to avoid any risks regarding the completion of this project within the time frame. We also made sure that all our desired features are within each of our capabilities. This way we can help each other more efficiently.

**Requirements:**

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| Template for Use Case Description | |
| **Use Case:** | Search for product |
| **Actor (s):** | User, Registered user |
| **Goal:** | User can search for products |
| **Overview:** | a user uses the search interface to look for a product using the name of the product or a keyword |
| **Pre-Condition:** | Product must be stored in database and available for purchase |
| **Post Condition:** | Product appears on the page after the customer hits the search button |
| **Successful Scenario:** | 1- User clicks on the search box  2- User enters a name or keyword for the product  3- The desired product is shown the screen  4- User can look at the product’s details |
| **Alternative Scenario (s)** | 3 – “The desired product is shown on screen”, if the product doesn’t show on screen, spelling errors could be fixed or other keywords can be used to search for the product. |

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| Template for Use Case Description | |
| **Use Case:** | add the to wish list |
| **Actor (s):** | Registered user |
| **Goal:** | The user can add desired products to wish list |
| **Overview:** | If the user finds products they are interested in, They could be added to a wish list, then moved to cart when the user is ready to buy them |
| **Pre-Condition:** | The user must be registered |
| **Post Condition:** | The product stays in wish list for a limited amount of time |
| **Successful Scenario:** | 1-User logs in or signs up for an account  2-User finds a product they are interested in  3-User clicks the “add to wish list button”  4-Product is added to the user’s wish list  5-User can view the product in wish list |
| **Alternative Scenario (s)** | 4-“User can view the product in wish list”, if the product is not visible, then the wish list can be reloaded, if that doesn’t work then the user is given the option to add the item again |

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| Template for Use Case Description | |
| **Use Case:** | view order history |
| **Actor (s):** | Registered User, Admin |
| **Goal:** | View past orders |
| **Overview:** | The registered user clicks on the “view order history” button and finds all their past orders listed |
| **Pre-Condition:** | User is registered |
| **Post Condition:** | All past orders are listed on the page |
| **Successful Scenario:** | 1-User logs in or signs up  2-User clicks on “view order history” button  3-All past orders are presented on the page  4-The user is able to view details of all past orders |
| **Alternative Scenario (s)** | 4-“The user is able to view details of all past orders”, the user is presented with an error message describing the reason of the error. |

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| Template for Use Case Description | |
| **Use Case:** | View Transaction |
| **Actor (s):** | Payment, Admin |
| **Goal:** | Retrieve and review transaction details. |
| **Overview:** | Payment and Admin actors have the ability to view transactions. |
| **Pre-Condition:** | The transaction must be stored in the system. Payment and Admin actors must have the permissions to view transactions. |
| **Post Condition:** | Transaction details are displayed. |
| **Successful Scenario:** | * 1. Payment:   1.Open and log in to the transaction payments page.  2.See the list of transactions. Filter and select the needed.  3.Views transaction details (date, name, amount, and so on).  2. Admin:  1. Open and log in to the transaction payments page (in the admin page).  2. See the list of transactions. Filter and select the needed.  3. Views transaction details (date, name, amount, and so on). |
| **Alternative Scenario (s)** | 1.” See the list of transactions. Filter and select the needed.” - If there are no transactions in the system yet, the actor will see appropriate message.  2. “Filter and select the needed.” – if the wrong date selected (00/00/0000) the list will all transactions appears. |

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| Template for Use Case Description | |
| **Use Case:** | Update Profile |
| **Actor (s):** | Admin, Registered User |
| **Goal:** | Allow registered users and admins to update profiles. |
| **Overview:** | Admin and registered users can modify user profiles. |
| **Pre-Condition:** | The user or admin must be in the system and have the permission to update info. |
| **Post Condition:** | Information in the system is successfully updated. |
| **Successful Scenario:** | 1. Registered User:   1.Log in to the store and select “change profile” option.  2.Edit any information like a name, contact details, or password and so on.  3. Save the changes.  2. Admin:  1. Log in to the store and select “change profile” option.  2. Select a user for updates.  3.Change information in the profile.  4.Save the changes. |
| **Alternative Scenario (s)** | 2 – “Edit any information like a name, contact details, or password and so on.”, if user tries to update someone’s else page, the page with error will display.  3 – “Save the changes” if user or admin put invalid information (like numbers for name) the message that data are invalid appears. |

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| Template for Use Case Description | |
| **Use Case:** | Register User |
| **Actor (s):** | Guest User |
| **Goal:** | Create an account for new user. |
| **Overview:** | A person who is a not registered on the website is creating an account. |
| **Pre-Condition:** | The website is accessible and operational.  The user has a device with internet access.  The user has not registered on the website before. |
| **Post Condition:** | The user's account is created and stored in the website's database. The user can now log in using his email and password. |
| **Successful Scenario:** | • The user navigates to the website's registration page.  • They input essential details, including their name, email address, and password.  • The system verifies the c accuracy of the entered information.  • A new user account is created, linking the information to it. |
| **Alternative Scenario (s)** | • If the provided information fails validation, the system notifies the user and prompts them to correct errors.  • If the entered email address already exists in the system, the user is notified, and they are prompted to use a different email address.  • If the entered password does not meet security requirements, the system prompts the user to create a stronger password. |

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| Template for Use Case Description | |
| **Use Case:** | Add to Cart |
| **Actor (s):** | Registered or Guest User |
| **Goal:** | Enable users to conveniently select and add desired items to their shopping cart, facilitating a seamless and intuitive shopping experience. |
| **Overview:** | A person who is a not registered or registered on the website is adding products to cart. |
| **Pre-Condition:** | The website is accessible and operational.  The user has a device with internet access. |
| **Post Condition:** | After successfully executing the 'Add to Cart' functionality, the selected item is added to the user's shopping cart. User can see added items in the cart, the amount and price. |
| **Successful Scenario:** | • The user navigates through the website to explore available products.  • The user selects a product they wish to purchase.  • The user clicks on the "Add to Cart" button associated with the selected product.  • The system updates the user's shopping cart summary, displaying the added product, quantity, and total price  • The user can view the contents of their cart at any time, seeing a detailed list of selected products and the total cost. |
| **Alternative Scenario (s)** | • The user can adjust the quantity of selected products in the cart before proceeding to checkout.  • Users can remove items from the cart or clear the entire cart. |

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| Use Case Description | |
| **Use Case:** | Checkout Cart |
| **Actor (s):** | Registered User / Guest User |
| **Goal:** | Successful completion of the purchase ensuring accurate item selection, payment processing, and order confirmation. |
| **Overview:** | A person who is registered on the website is checking out cart. |
| **Pre-Condition:** | The website is accessible and operational.  The user has a device with internet access.  The user has items in their shopping cart.  The user is logged in. |
| **Post Condition:** | The used is shown the order confirmation page. The database is updated with new order. |
| **Successful Scenario:** | • The user accesses their shopping cart page.  • They inspect the contents of their cart, ensuring accuracy in quantities and making any necessary changes.  • Proceeding, the user clicks on the "Proceed to Checkout" option.  • The system prompts the user to input shipping information.  • Next, the user inputs payment details - card number, expiration date, and security code.  • The summary of the order, including items, shipping details, and total cost are displayed.  • The user confirms the order.  • The payment is processed.  • An order confirmation is displayed to the user. |
| **Alternative Scenario (s)** | • If the shipping address is incomplete or invalid, the user is prompted to correct it.  • If the payment cannot be processed successfully, the system notifies the user. |

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| Template for Use Case Description | |
| **Use Case:** | Update Stock |
| **Actor (s):** | Admin |
| **Goal:** | Update the actual items in the store. |
| **Overview:** | Admin, through the interface for staff in the store, updates or creates new items, changes prices, and performs other relevant modifications. |
| **Pre-Condition:** | Admin must have the right to create, change, and modify stock. |
| **Post Condition:** | Product appears on the store page, or the price, quantity, or any other parameter of the product has been successfully changed. |
| **Successful Scenario:** | 1. Admin adds a new name and picture for a new product.  2. Admin enters price, ID, quantity, and description for the product.  3. The page is saved with all details.  4. Admin can check the final product on the main page as a "customer." |
| **Alternative Scenario (s)** | Admin can check the final product on the main page as a "customer." If the admin cannot see the product, the level of access to the view page for the product must be changed or permission granted to that admin. |

**Priorities:**

Currently, we are putting our main focus into planning the look and feel of the website in order to plan out where all the features will go to provide an efficient interface for the user. Our second priority is getting started on the CRUD functionalities along with our use case, “Register user”.

**Iteration Goals:**

Iteration 1: As mentioned above, we will put an effort to get the CRUD functionalities out of the way, along with our desired features such as; Register user, Search for product, Update stock and Update profile. This is also when we will start creating our unit tests.

Iteration 2: During this time period we hope to set up stripe along with our cart features and order history. This will also be the time we start working on the design of our website using CSS.

Final Iteration: By this time we plan to have our website fully functioning. We will use this time to deploy our website, brush up on features that need extra work, and add new simple features if the time allows.

**Class Diagram:**

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**Link to the repo - https://dev.azure.com/X00195342/2nd%20Year%20Project/\_git/2nd\_Year\_Project**