**PROJECT DOCUMENTATION**

SUBURBAN OUTFITTERS - ONLINE SHOPPING PORTAL

**INTRODUCTION**

Suburban Outfitters has decided to venture into the online market. It's evident that people are now doing most of their shopping online. To meet this demand, we aim to build a user-friendly platform where customers can feel the essence of our physical store while enjoying the convenience of online shopping.

To make this online platform come to life, we're using various tools and techniques. HTML and CSS are our foundation, ensuring the site is visually appealing. With JavaScript, we're adding functionalities that make the website more interactive and engaging. On the backend, PHP and MySQL are being used. They help in storing product details, user accounts, order histories, and more. We're also using XAMPP to host on server. It's a simple and lightweight solution that allows us to develop and test the site locally before we launch it for everyone.

Planning and executing such a project requires a systematic approach. That's why we've adopted the Agile System Development method. This method isn't just about coding; it's about understanding what the customer wants, setting clear goals, and working towards them in manageable steps or "sprints." Throughout this process, we'll be using tools like flow diagrams to map out how users will navigate the site and ERDs (Entity Relationship Diagrams) to figure out how the data interacts.

Additionally, we will continuously gather feedback, making sure that the website serves our customers well and offers them a seamless shopping experience. As we proceed, we'll be designing various use cases. These will help us understand the different ways users might interact with the site. For instance, how they'll add items to their cart, how they'll check out, and how they'll track their orders.

All these efforts are in service of our primary objective: providing an efficient, enjoyable, and comprehensive online shopping platform for our loyal customers at Suburban Outfitters. We believe that with the right combination of technology and method, our online platform will not only meet but exceed expectations.

1. **Use Case Model**

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**2. Use Case Document**

* 1. **Use Case**: Register a new customer account (Create)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Register a new customer account (Create) |
| **Objective** | Allow new customers to create an account for a personalized shopping experience. |
| **Business Event** | Customer wants to register for a new account. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is on the site homepage. |
| **Post-condition** | New customer account is created, and customer is logged in. |
| **Failure outcomes** | Error message 'Error creating account'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks 'Sign Up' | Display registration form | **register.php** |
| 2 | Customer fills in personal details and submits | Validate input and create new account in database | - |
| 3 | - | Log the customer in and forward to **homepage.php** | **homepage.php** |

* 1. **Use Case**: View personal details and order history (Read)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | View personal details and order history (Read) |
| **Objective** | Allow customers to view their profile details and order history. |
| **Business Event** | Customer wants to view their account details and purchase history. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into their account. |
| **Post-condition** | Customer views their profile and order history. |
| **Failure outcomes** | Error message 'Unable to fetch details'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks 'My Profile' | Display personal details | **profile.php** |
| 2 | Customer clicks 'Order History' | Fetch and display list of past orders | **order-history.php** |

* 1. **Use Case**: Modify personal information (Update)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Modify personal information (Update) |
| **Objective** | Allow customers to change their account details. |
| **Business Event** | Customer wants to update their profile. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into their account. |
| **Post-condition** | Customer's details are updated in the system. |
| **Failure outcomes** | Error message 'Failed to update details'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks 'Edit Profile' | Display editable form with current details | **edit-profile.php** |
| 2 | Customer modifies details and submits | Validate input and update details in the database | - |
| 3 | - | Display success message and forward to **profile.php** | **profile.php** |

* 1. **Use Case**: Delete or deactivate an account (Delete)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Delete or deactivate an account (Delete) |
| **Objective** | Allow customers to remove their account from the system. |
| **Business Event** | Customer decides to delete their account. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into their account. |
| **Post-condition** | Customer's account is deleted or deactivated. |
| **Failure outcomes** | Error message 'Failed to delete account'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks 'Delete Account' | Ask for confirmation | **delete-account.php** |
| 2 | Customer confirms deletion | Remove or deactivate account from the database | - |
| 3 | - | Log the customer out and display **homepage.php** with a message | **homepage.php** |

* 1. **Use Case**: Add new products or restock existing items (Create)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Add new products or restock existing items (Create) |
| **Objective** | Efficiently introduce new items or replenish stock. |
| **Business Event** | Admin wants to add a new product or restock. |
| **Primary Actor(s)** | Admin |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Admin is logged into the system. |
| **Post-condition** | New product is added, or existing stock is updated. |
| **Failure outcomes** | Error message 'Unable to add/update product'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Admin selects 'Add Product' | Display product addition form | **add-product.php** |
| 2 | Admin fills out product details & submits | Validate input and add product to database | - |
| 3 | - | Display success message and forward to **product-list.php** | **product-list.php** |

* 1. **Use Case**: Check product details, availability status, and inventory levels (Read)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Check product details, availability status, and inventory levels (Read) |
| **Objective** | Provide comprehensive product information. |
| **Business Event** | Admin checks product details. |
| **Primary Actor(s)** | Admin |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Admin is logged into the system. |
| **Post-condition** | Admin views product details. |
| **Failure outcomes** | Error message 'Unable to fetch product details'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Admin clicks on a product from list | Display detailed product info | **view-product-details.php** |

* 1. **Use Case**: Modify product details, pricing, or discontinue items (Update)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Modify product details, pricing, or discontinue items (Update) |
| **Objective** | Keep product data current and accurate. |
| **Business Event** | Admin wants to edit product details. |
| **Primary Actor(s)** | Admin |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Admin is logged into the system. |
| **Post-condition** | Product details are updated in the system. |
| **Failure outcomes** | Error message 'Failed to update product'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Admin selects 'Edit Product' | Display products edit form with current details | **edit-product.php** |
| 2 | Admin modifies details & submits | Validate input and update product details in database | - |
| 3 | - | Display success message and redirect to **product-list.php** | **product-list.php** |

* 1. **Use Case**: Remove products that are no longer available or relevant (Delete)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Remove products that are no longer available or relevant (Delete) |
| **Objective** | Maintain an accurate product catalog. |
| **Business Event** | Admin decides to delete a product. |
| **Primary Actor(s)** | Admin |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Admin is logged into the system. |
| **Post-condition** | Product is removed from the system. |
| **Failure outcomes** | Error message 'Failed to delete product'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Admin selects 'Delete Product' | Ask for confirmation | **delete-product.php** |
| 2 | Admin confirms deletion | Remove product from the database | - |
| 3 | - | Display success message on **product-list.php** | **product-list.php** |

* 1. **Use Case**: Write and submit a review along with a rating for a purchased item (Create)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Write and submit a review along with a rating (Create) |
| **Objective** | Capture feedback from customers for products they've purchased. |
| **Business Event** | Customer wants to provide feedback on a product. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into the system and has purchased the product. |
| **Post-condition** | Review and rating are visible on the product's page. |
| **Failure outcomes** | Error message 'Failed to submit review'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer selects 'Write Review' for a product | Display review and rating form | **write-review.php** |
| 2 | Customer enters review details & submits | Validate input and save review to database | - |
| 3 | - | Display success message and redirect to **product-details.php** | **product-details.php** |

* 1. **Use Case**: Browse through all reviews and ratings on a product's page (Read)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Browse through all reviews and ratings (Read) |
| **Objective** | Allow customers to view feedback from other customers. |
| **Business Event** | Customer wants to read reviews on a product. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is browsing the site. |
| **Post-condition** | Customer views all reviews for the product. |
| **Failure outcomes** | Error message 'Failed to fetch reviews'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks on a product | Display product details along with all reviews | **product-details.php** |

* 1. **Use Case**: Edit or update an existing review or rating (Update)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Edit or update an existing review or rating (Update) |
| **Objective** | Allow customers to modify their feedback. |
| **Business Event** | Customer wants to update their review. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged in and has previously reviewed the product. |
| **Post-condition** | Updated review is visible on the product's page. |
| **Failure outcomes** | Error message 'Failed to update review'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer selects 'Edit Review' | Display review edit form with previous details | **edit-review.php** |
| 2 | Customer modifies review & submits | Validate input and update review in database | - |
| 3 | - | Display success message and redirect to **product-details.php** | **product-details.php** |

* 1. **Use Case**: Withdraw a previously submitted review from the product's page (Delete)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Withdraw a previously submitted review or rating (Delete) |
| **Objective** | Allow customers to remove their feedback. |
| **Business Event** | Customer wants to delete their review. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged in and has previously reviewed the product. |
| **Post-condition** | Review is no longer visible on the product's page. |
| **Failure outcomes** | Error message 'Failed to delete review'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer selects 'Delete Review' | Ask for confirmation | **delete-review.php** |
| 2 | Customer confirms deletion | Remove review from the database | - |
| 3 | - | Display success message on **product-details.php** | **product-details.php** |

* 1. **Use Case**: Add a product to wishlist/favorites (Create)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Add a product to wishlist/favorites (Create) |
| **Objective** | Allow customers to bookmark their favorite products for future reference or purchase. |
| **Business Event** | Customer wants to save a product to their wishlist. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into the system. |
| **Post-condition** | Product is added to customer's wishlist. |
| **Failure outcomes** | Error message 'Failed to add to wishlist'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks on 'Add to Wishlist' for a product | Validate and add product to customer's wishlist in the database | **add-to-wishlist.php** |
| 2 | - | Display success message or wishlist icon update | **product-details.php** |

* 1. **Use Case**: View all products in the wishlist/favorites (Read)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | View all products in the wishlist/favorites (Read) |
| **Objective** | Allow customers to see all their bookmarked products. |
| **Business Event** | Customer wants to view their wishlist. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into the system. |
| **Post-condition** | Customer views all products in their wishlist. |
| **Failure outcomes** | Error message 'Failed to fetch wishlist'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks on 'My Wishlist' | Display all products saved in the customer's wishlist | **view-wishlist.php** |

* 1. **Use Case**: Move a product from wishlist to cart (Update)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Move a product from wishlist to cart (Update) |
| **Objective** | Allow customers to move products they wish to purchase from their wishlist to their shopping cart. |
| **Business Event** | Customer decides to purchase a product from their wishlist. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into the system and the product is in their wishlist. |
| **Post-condition** | Product is added to the shopping cart and removed from the wishlist. |
| **Failure outcomes** | Error message 'Failed to move product to cart'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks on 'Move to Cart' for a product in wishlist | Validate, remove product from wishlist and add to cart in the database | **move-to-cart.php** |
| 2 | - | Display success message and update cart icon | **product-details.php** |

* 1. **Use Case**: Remove a product from the wishlist/favorites (Delete)

| **Attribute** | **Description** |
| --- | --- |
| **Use Case** | Remove a product from the wishlist/favorites (Delete) |
| **Objective** | Allow customers to manage their bookmarked products. |
| **Business Event** | Customer wants to remove a product from their wishlist. |
| **Primary Actor(s)** | Customer |
| **Secondary Actor(s)** | None |
| **Pre-condition** | Customer is logged into the system and the product is in their wishlist. |
| **Post-condition** | Product is removed from the customer's wishlist. |
| **Failure outcomes** | Error message 'Failed to remove from wishlist'. |

**Flow of Events**:

| **Step** | **Actor Action** | **System Response** | **Associated File** |
| --- | --- | --- | --- |
| 1 | Customer clicks on 'Remove from Wishlist' for a product | Validate and remove product from the customer's wishlist in the database | **remove-from-wishlist.php** |
| 2 | - | Display success message or wishlist icon update | **product-details.php** |

1. **Use Case Activity Diagrams**

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A diagram of a computer

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A diagram with text and words

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A diagram with black text and white text

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A diagram with text and circles

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A diagram of a product

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A diagram of a system

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A diagram of a product

Description automatically generated

A diagram of a customer review

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A diagram of a customer service

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A diagram of a product

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1. **Wire Frame Diagrams**

4.1 Register user

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4.2 Login User

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4.3 Product List

A screenshot of a website

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4.4 Product Details

A black and grey jacket with a grey sleeve

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4.5 User Details

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4.6 Order Details

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4.7 Inventory System

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4.8 Add Product

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4.9 View Product

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4.10 Update Product

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4.11 Delete Product

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4.12 Customer Review and Ratings

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4.13 Customer Wishlist

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1. **ERD**

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**Ethics and Critical Thinking in Developing Front End Pages:**

* Using ethics in web development is crucial. Ethical considerations:

1. Ensuring user data is kept private and secure.
2. Making web pages accessible to all users, including those with disabilities.
3. Not using dark patterns that might deceive or force users into taking actions they didn't intend.

* Critical thinking in web development:

1. Anticipating user needs and designing for a user-friendly experience.
2. Testing and iterating designs based on feedback.
3. Keeping updated with the latest web standards and practices.

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