

Final Project Documentation

Blank CRUD Checklist

	<div><p><u>Final Project Submission</u></p><p><u>Web Application Development</u></p><p><u>CRUD Check List</u></p><p><u>Date:</u></p><p><u>Team:</u></p><p><u>Grading Team:</u></p></div>		
	<u>CRUD use cases</u>	<u>Pass</u>	<u>Comments</u>
<u>1</u>	<u>View Product</u>		
<u>2</u>	<u>Add to Cart</u>		
<u>3</u>	<u>Delete/Remove Cart Item</u>		
<u>4</u>	<u>Update Account</u>		
<u>5</u>	<u>View Reviews</u>		
<u>6</u>	<u>Update Review for Product</u>		
<u>7</u>	<u>Delete Review for Product</u>		
<u>8</u>	<u>Add Review for Product</u>		
<u>9</u>	<u>Add Product</u>		
<u>10</u>	<u>Update Product</u>		
<u>11</u>	<u>Delete Product</u>		
<u>12</u>	<u>View Sales</u>		
<u>13</u>	<u>View Users</u>		
<u>14</u>	<u>Update Users</u>		
<u>15</u>	<u>Delete Users</u>		

16	<u>Logout Fucntional</u>		
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Peer CRUD Checklist

	<p style="text-align: center;">Final Project Submission Web Application Development</p> <p style="text-align: center;">CRUD Check List</p> <p>Date: 11/30/2024 Team: Group 9 Grading Team: Group 7</p>		
	CRUD use cases	Pass	Comments
1	View Product	Yes	
2	Add to Cart	Yes	
3	Delete/Remove Cart Item	Yes	
4	Update Account	Yes	
5	View Reviews	Yes	
6	Update Review for Product	Yes	
7	Delete Review for Product	Yes	
8	Add Review for Product		
9	Add Product	Yes	Can insert Picture. Nice touch
10	Update Product	Yes	

11	Delete Product	Yes	
12	View Sales	Yes	
13	View Users	Yes	
14	Update Users	Yes	
15	Delete Users	Yes	
16	Logout Functional	Yes	

Use cases guide:

User can create account, update account, delete account, and view account

User can create/add to shopping cart, update shopping cart (add or remove), delete shopping cart (remove items), and view shopping cart

User can create product review, update product review, view product review, and delete product review

User can create website review, update website review, view website review, and delete website review

Admin can create a user account, update users accounts (when updating user account, you have to enter users username before you can submit it), view users accounts, and delete users accounts

Admin can create new product, update product, delete product, view product

Admin can see sales report

Business/Organizational Goals

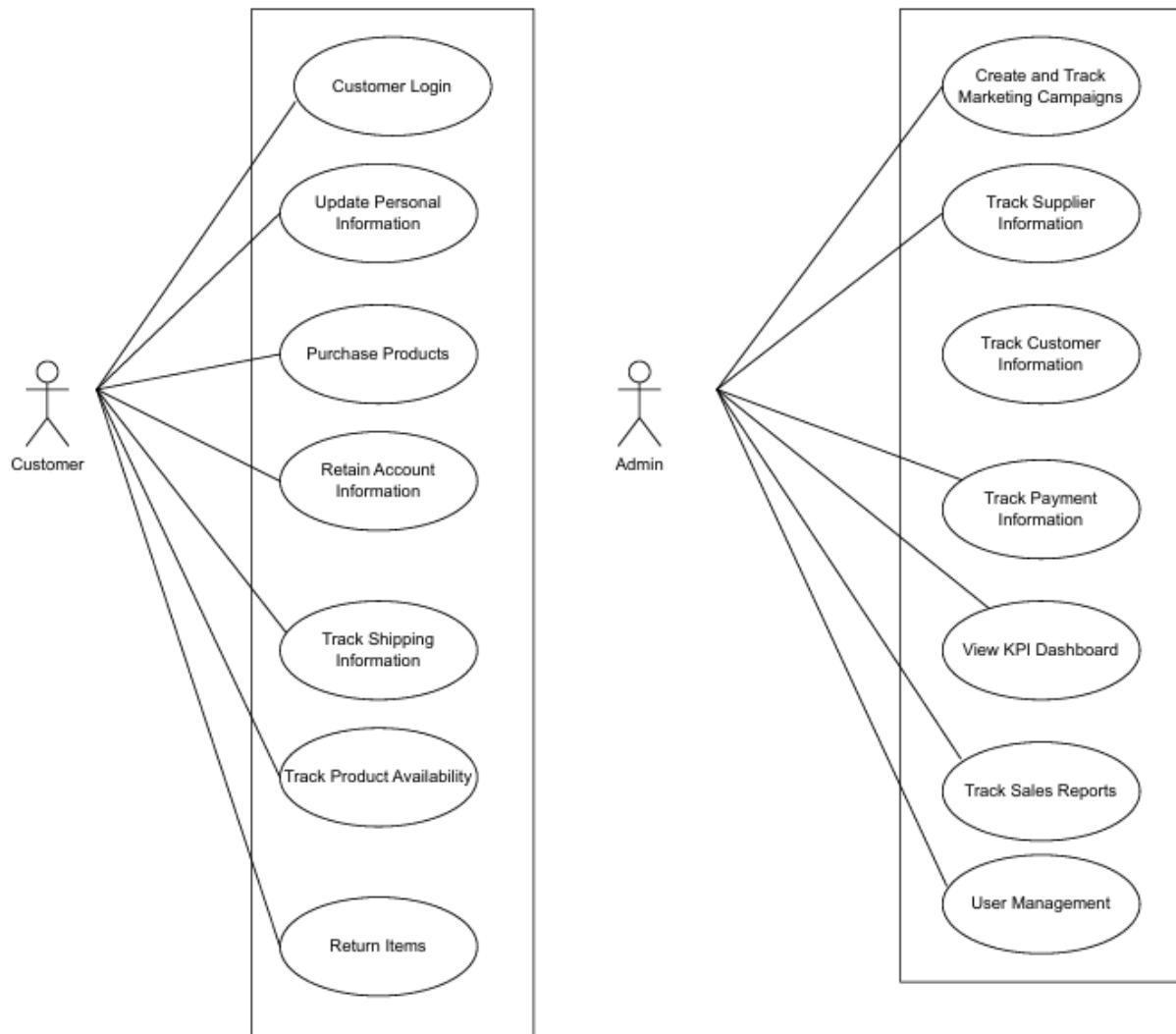
We achieved our business and organizational goals by creating an easy to read website while implementing the necessary components of an e-commerce website to make the customer experience a simple and straightforward process. Our original project objective was to create a user-friendly online shopping experience for our customers. We achieved this goal by creating a

clear navigation system at the top of our website when the user logs in so the user knows exactly how to get to a page on our website when needed. This makes the website flow from the user side straightforward for an enjoyable shopping experience. When navigating to the products list, the products are clearly displayed with a picture of the item along with its price and inventory count, leaving no question to our customers about the product that they are purchasing.

Ethics/Critical Thinking

When thinking about ethical concerns for our customers, the highest priority was making sure that our customer data is secure. We implemented password hashing and salting for passwords stored in our database, ensuring that if our data is compromised the customers accounts can not be accessed. We also implemented an authentication/authorization process in our login structure so that the website can only be accessed by customers with existing accounts that go through the proper login steps to access the site. Another concern we took into consideration was making sure that our customers can not be misled on our website. Thinking about how we could make the purchasing process as straightforward as possible, on the product list page we decided to include the picture of the item, its name, its price, and its availability according to its inventory count for each item. This ensures that the customers know exactly what they are purchasing, and that it is obvious to the customer if we are out of stock for a specific product. Lastly, we wanted to make sure that all possible customers can have an enjoyable experience on our website. We decided that it would be best if our website was not cluttered with unnecessary features that would not directly contribute to the user experience, and we also decided that large clear lettering and color contrasting that is easy to look at was implemented for people that have visual disabilities.

USE CASE MODEL



USE CASE DOCUMENT

Actor Use Cases:

<u>Use Case</u>	<u>Customer Login</u>
<u>Objective</u>	<u>Allow the customer to log in to the system securely.</u>

<u>Business Event</u>	<u>Customer provides login credentials to access their account.</u>	
<u>Primary Actor (s)</u>	<u>Customer</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Customer must have an existing account with valid login credentials.</u>	
<u>Post-condition</u>	<u>Customer is logged in and redirected to the home page.</u>	
<u>Failure outcomes</u>	<u>Customer is shown an error message if login fails due to incorrect credentials or other issues.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
1	<u>Customer navigates to the login page.</u>	<u>System displays the login form.</u>
2	<u>Customer enters username and password.</u>	<u>System validates credentials.</u>
3	<u>Customer clicks "Login".</u>	<u>If valid, the system logs in the customer and redirects to the home page.</u>
4		<u>If invalid, the system displays an error message: "Incorrect username or password."</u>

<u>Use Case</u>	<u>Purchase Products</u>
<u>Objective</u>	<u>Allow customers to purchase products from the platform</u>
<u>Business Event</u>	<u>Customer initiates a purchase of products</u>

<u>Primary Actor (s)</u>	<u>Customer</u>	
<u>Secondary Actor (s)</u>	<u>Payment Gateway</u>	
<u>Pre-condition</u>	<u>Customer must be logged into the system.</u> <u>Customer must have items in the cart.</u>	
<u>Post-condition</u>	<u>Order is confirmed, and payment is processed.</u>	
<u>Failure outcomes</u>	<u>Customer receives an error message if the purchase fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Customer navigates to their cart.</u>	<u>System displays cart contents.</u>
	<u>Customer confirms items and initiates checkout.</u>	<u>System shows checkout page</u>
	<u>Customer provides payment and shipping details.</u>	<u>System processes payment and stores order details.</u> <u>Forward user to the</u> <u>view-customer-list.php page.</u>
	<u>Customer sees order confirmation.</u>	<u>Customer sees order confirmation.</u>

<u>Use Case</u>	<u>Retain Account Information</u>
<u>Objective</u>	<u>Retain customer account information for future visits.</u>
<u>Business Event</u>	<u>Customer updates or saves personal account details.</u>
<u>Primary Actor (s)</u>	<u>Customer</u>
<u>Secondary Actor (s)</u>	<u>None</u>

<u>Pre-condition</u>	<u>Customer must be logged into the system.</u>	
<u>Post-condition</u>	<u>Account details are saved.</u>	
<u>Failure outcomes</u>	<u>Customer receives an error message if the details cannot be saved.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Customer navigates to account settings.</u>	<u>System displays account settings page.</u>
	<u>Customer updates account information.</u>	<u>System validates and saves the new information.</u>
	<u>Customer submits the changes.</u>	<u>System shows a confirmation message.</u>

<u>Use Case</u>	<u>Track Shipping Information</u>	
<u>Objective</u>	<u>Allow customers to track the status of their shipped orders.</u>	
<u>Business Event</u>	<u>Customer checks the shipping status.</u>	
<u>Primary Actor (s)</u>	<u>Customer</u>	
<u>Secondary Actor (s)</u>	<u>Shipping Provider</u>	
<u>Pre-condition</u>	<u>Customer must have an order placed.</u>	
<u>Post-condition</u>	<u>Shipping status is displayed.</u>	
<u>Failure outcomes</u>	<u>Error message if tracking information is unavailable.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>

	<u>Customer navigates to order history.</u>	<u>System displays list of customer orders.</u>
2	<u>Customer selects an order to track.</u>	<u>2. System retrieves and displays shipping status.</u>

<u>Use Case</u>	<u>Track Product Availability</u>	
<u>Objective</u>	<u>Display product availability to the customer.</u>	
<u>Business Event</u>	<u>Customer checks if a product is in stock.</u>	
<u>Primary Actor (s)</u>	<u>Customer</u>	
<u>Secondary Actor (s)</u>	<u>Inventory System</u>	
<u>Pre-condition</u>	<u>Customer is viewing a product page.</u>	
<u>Post-condition</u>	<u>Stock status is displayed.</u>	
<u>Failure outcomes</u>	<u>System shows an error if availability cannot be determined.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Customer views a product.</u>	<u>System checks inventory status.</u>
2		<u>System displays availability.</u>

<u>Use Case</u>	<u>Return Items</u>	
<u>Objective</u>	<u>Allow customers to initiate returns, with inventory updated.</u>	
<u>Business Event</u>	<u>Customer initiates a return for a purchased item.</u>	

<u>Primary Actor (s)</u>	<u>Customer</u>	
<u>Secondary Actor (s)</u>	<u>Inventory System</u>	
<u>Pre-condition</u>	<u>Customer must have received the product.</u>	
<u>Post-condition</u>	<u>Return is processed, and inventory updated.</u>	
<u>Failure outcomes</u>	<u>Error message if return request fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
1	<u>Customer goes to order history and selects an item to return.</u>	<u>System displays return form.</u>
2	<u>Customer completes and submits return form.</u>	<u>System processes return and updates inventory.</u>
3		<u>System confirms the return</u>

<u>Use Case</u>	<u>Update Personal Information</u>	
<u>Objective</u>	<u>Allow customers to update their personal information.</u>	
<u>Business Event</u>	<u>Customer updates account details.</u>	
<u>Primary Actor (s)</u>	<u>Customer</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Customer must be logged in</u>	
<u>Post-condition</u>	<u>Account information is updated.</u>	

<u>Failure outcomes</u>	<u>Error message if update fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
1.	<u>Customer navigates to account settings.</u>	<u>System displays account settings page.</u>
2.	<u>Customer updates personal information.</u>	<u>2. System validates and saves information.</u>
3.		<u>System confirms the update.</u>

Admin Use Cases:

<u>Use Case</u>	<u>Create and Track Marketing Campaigns</u>	
<u>Objective</u>	<u>Admin can create and monitor marketing campaigns.</u>	
<u>Business Event</u>	<u>Admin initiates a new marketing campaign.</u>	
<u>Primary Actor (s)</u>	<u>Admin</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Admin is logged in.</u>	
<u>Post-condition</u>	<u>Campaign is created and tracked.</u>	
<u>Failure outcomes</u>	<u>Error message if campaign creation fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
1.	<u>Admin accesses marketing dashboard</u>	<u>System displays marketing options</u>

2	<u>Admin creates a new campaign.</u>	<u>System saves and tracks campaign</u>
2		<u>System confirms campaign creation.</u>

<u>Use Case</u>	<u>Track Supplier Information</u>	
<u>Objective</u>	<u>Admin can monitor supplier details and manage inventory.</u>	
<u>Business Event</u>	<u>Admin views supplier information.</u>	
<u>Primary Actor (s)</u>	<u>Admin</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Admin is logged in.</u>	
<u>Post-condition</u>	<u>Supplier information is displayed.</u>	
<u>Failure outcomes</u>	<u>Error message if supplier data retrieval fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Admin navigates to supplier management page</u>	<u>System displays list of suppliers.</u>
	<u>Admin views supplier details.</u>	

<u>Use Case</u>	<u>Track Customer Information</u>	
<u>Objective</u>	<u>Admin can access customer personal information for support.</u>	
<u>Business Event</u>	<u>Admin retrieves customer data.</u>	

<u>Primary Actor (s)</u>	<u>Admin</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Admin is logged in.</u>	
<u>Post-condition</u>	<u>Customer information is displayed.</u>	
<u>Failure outcomes</u>	<u>Error if data retrieval fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Admin searches for customer.</u>	<u>System displays customer details.</u>

<u>Use Case</u>	<u>Track Payment Information</u>	
<u>Objective</u>	<u>Allow admins to view customer payment data.</u>	
<u>Business Event</u>	<u>Admin checks customer payment history.</u>	
<u>Primary Actor (s)</u>	<u>Admin</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Admin is logged in.</u>	
<u>Post-condition</u>	<u>Payment details are displayed.</u>	
<u>Failure outcomes</u>	<u>Error message if retrieval fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Admin selects customer payment history.</u>	<u>System displays payment information.</u>

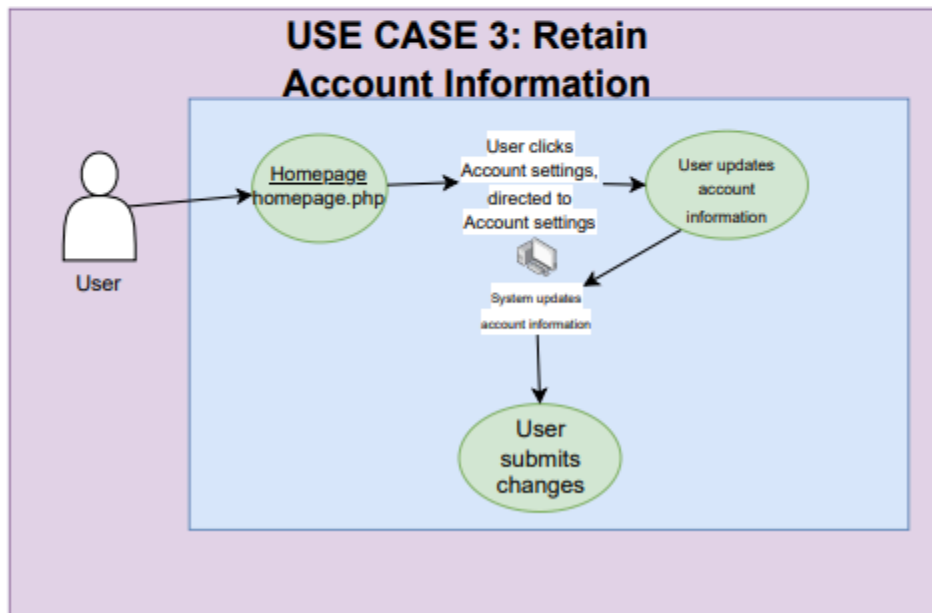
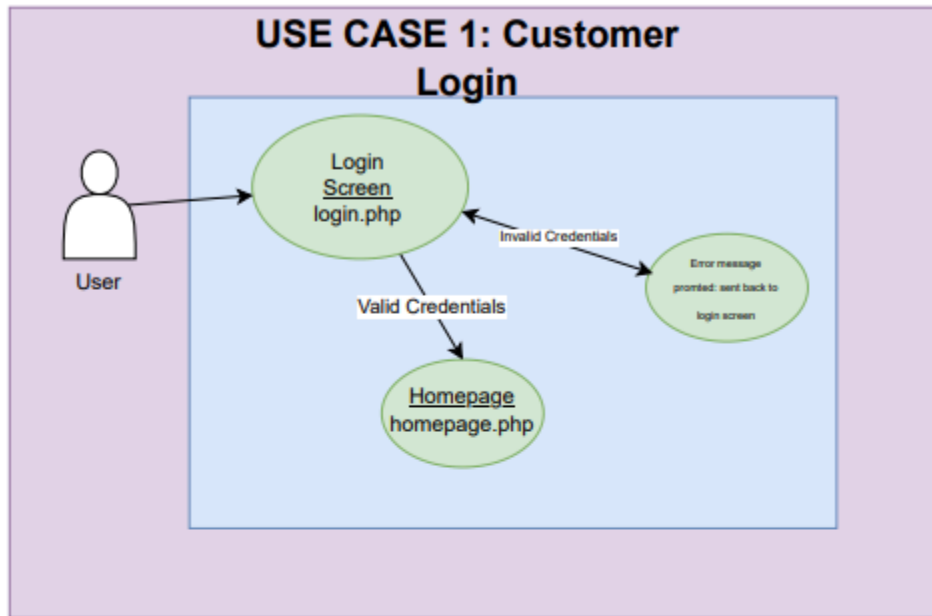
<u>Use Case</u>	<u>View KPI Dashboard</u>	
<u>Objective</u>	Admin views a dashboard for key performance indicators.	
<u>Business Event</u>	Admin accesses KPI dashboard.	
<u>Primary Actor (s)</u>	Admin	
<u>Secondary Actor (s)</u>	None	
<u>Pre-condition</u>	Admin is logged in.	
<u>Post-condition</u>	Dashboard is displayed.	
<u>Failure outcomes</u>	Error if dashboard fails to load.	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	Admin opens dashboard	System displays KPI metrics.

<u>Use Case</u>	<u>Track Sales Reports</u>	
<u>Objective</u>	Generate sales reports for monthly performance.	
<u>Business Event</u>	Admin retrieves monthly sales data.	
<u>Primary Actor (s)</u>	Admin	
<u>Secondary Actor (s)</u>	None	
<u>Pre-condition</u>	Admin is logged in.	
<u>Post-condition</u>	Monthly report is generated.	

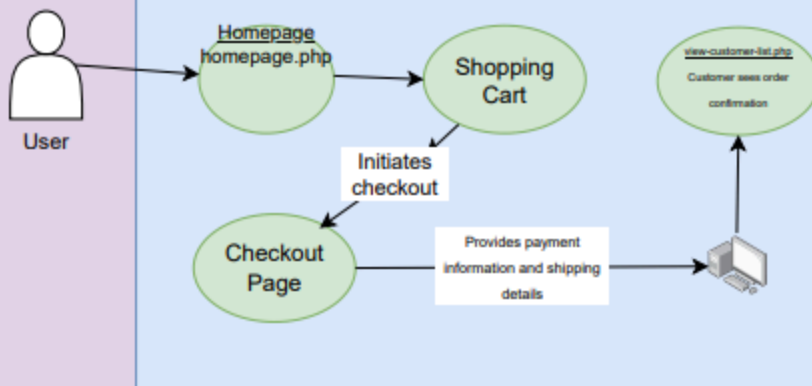
<u>Failure outcomes</u>	<u>Error if report fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Admin selects sales report option.</u>	<u>System generates and displays report.</u>

<u>Use Case</u>	<u>User Management</u>	
<u>Objective</u>	<u>Admin manages users and access permissions.</u>	
<u>Business Event</u>	<u>Admin updates user roles or access.</u>	
<u>Primary Actor (s)</u>	<u>Admin</u>	
<u>Secondary Actor (s)</u>	<u>None</u>	
<u>Pre-condition</u>	<u>Admin is logged in.</u>	
<u>Post-condition</u>	<u>User roles or permissions updated.</u>	
<u>Failure outcomes</u>	<u>Error if update fails.</u>	
<u>Flow of Events</u>	<u>Actor</u>	<u>System</u>
	<u>Admin selects user management.</u>	<u>System displays user list.</u>
	<u>Admin updates roles/permissions.</u>	<u>System saves changes.</u>

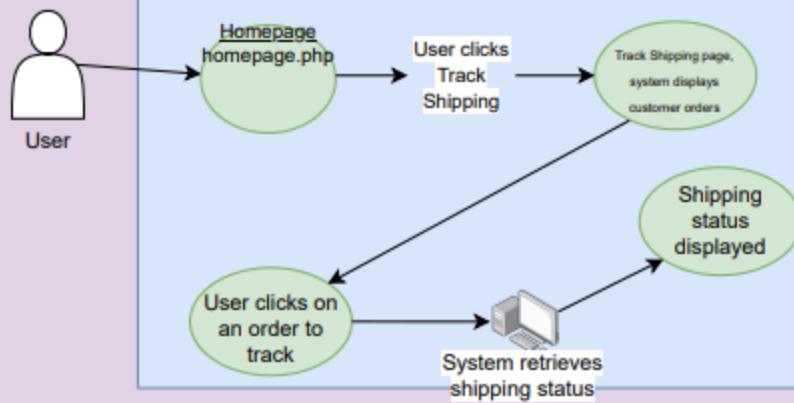
ACTIVITY DIAGRAMS: USER CASES



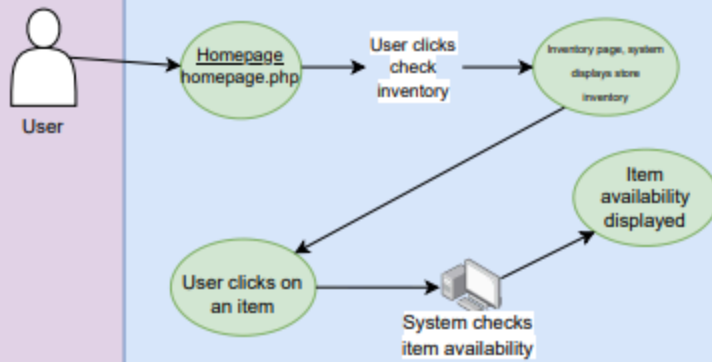
USE CASE 2: Purchase Products



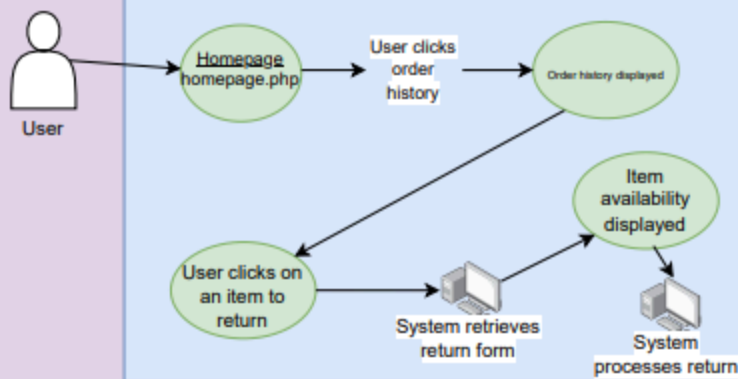
USE CASE 4: Track Shipping Information



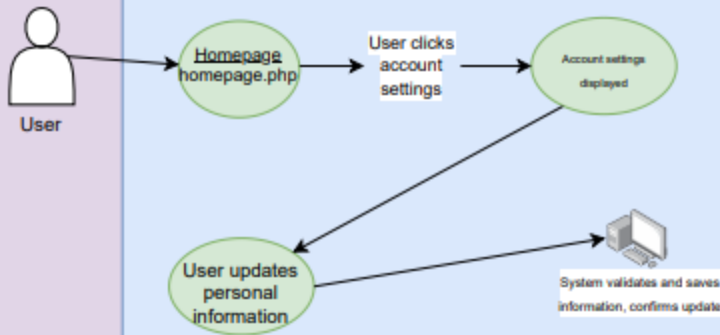
USE CASE 5: Track Product Availability



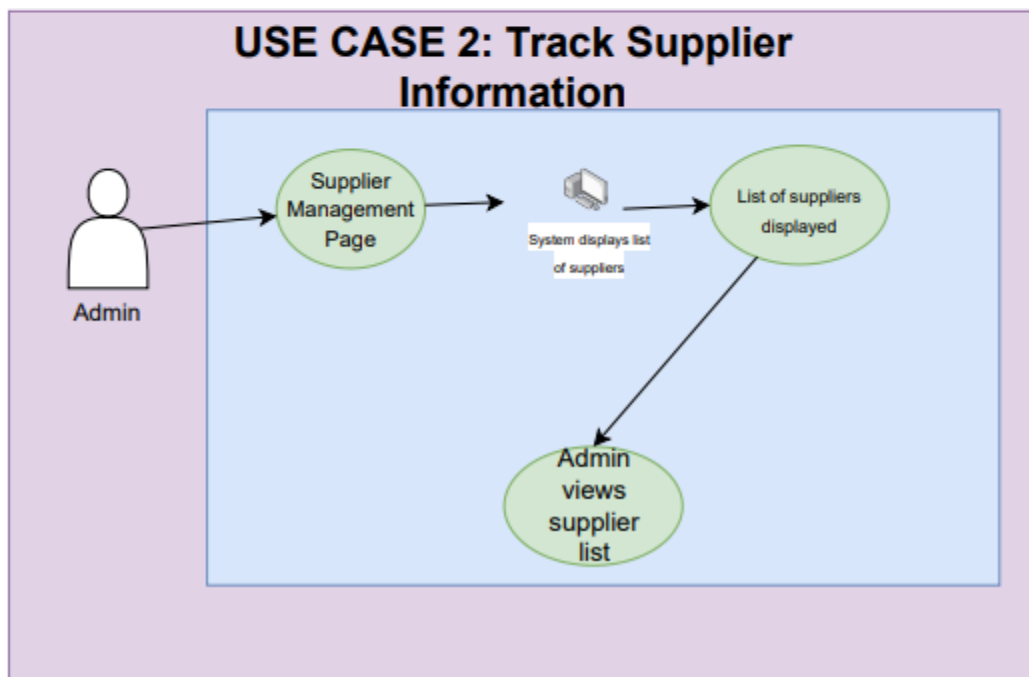
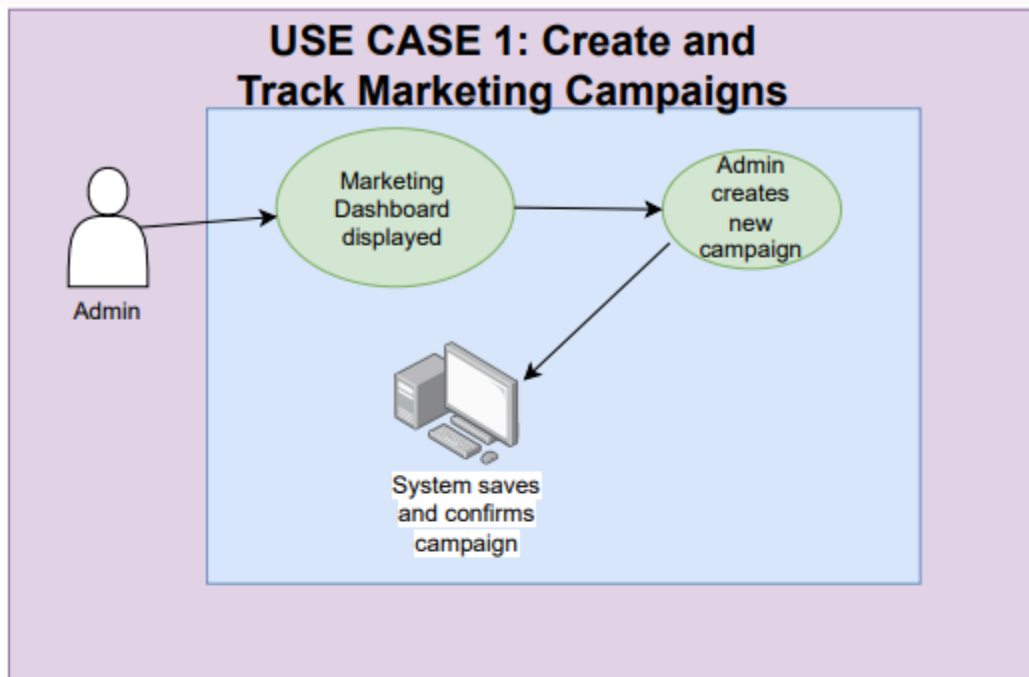
USE CASE 6: Return Items



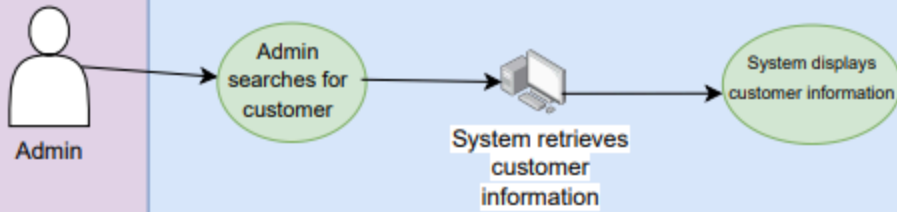
USE CASE 7: Update Personal Information



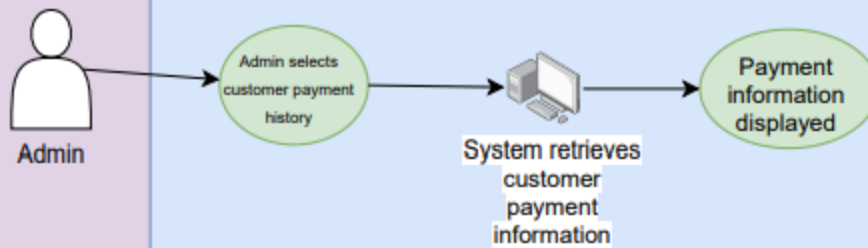
ACTIVITY DIAGRAM: ADMIN CASES



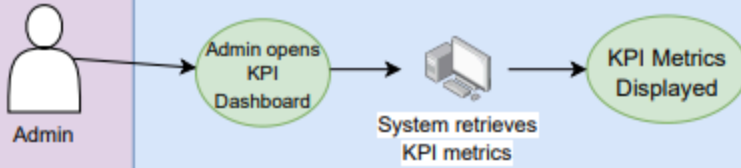
USE CASE 3: Track Customer Information



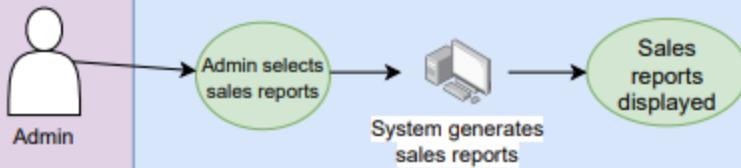
USE CASE 4: Track Payment Information



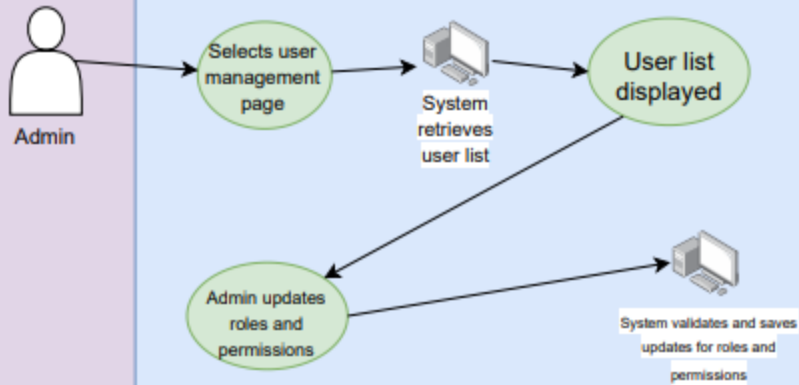
USE CASE 5: View KPI Dashboard



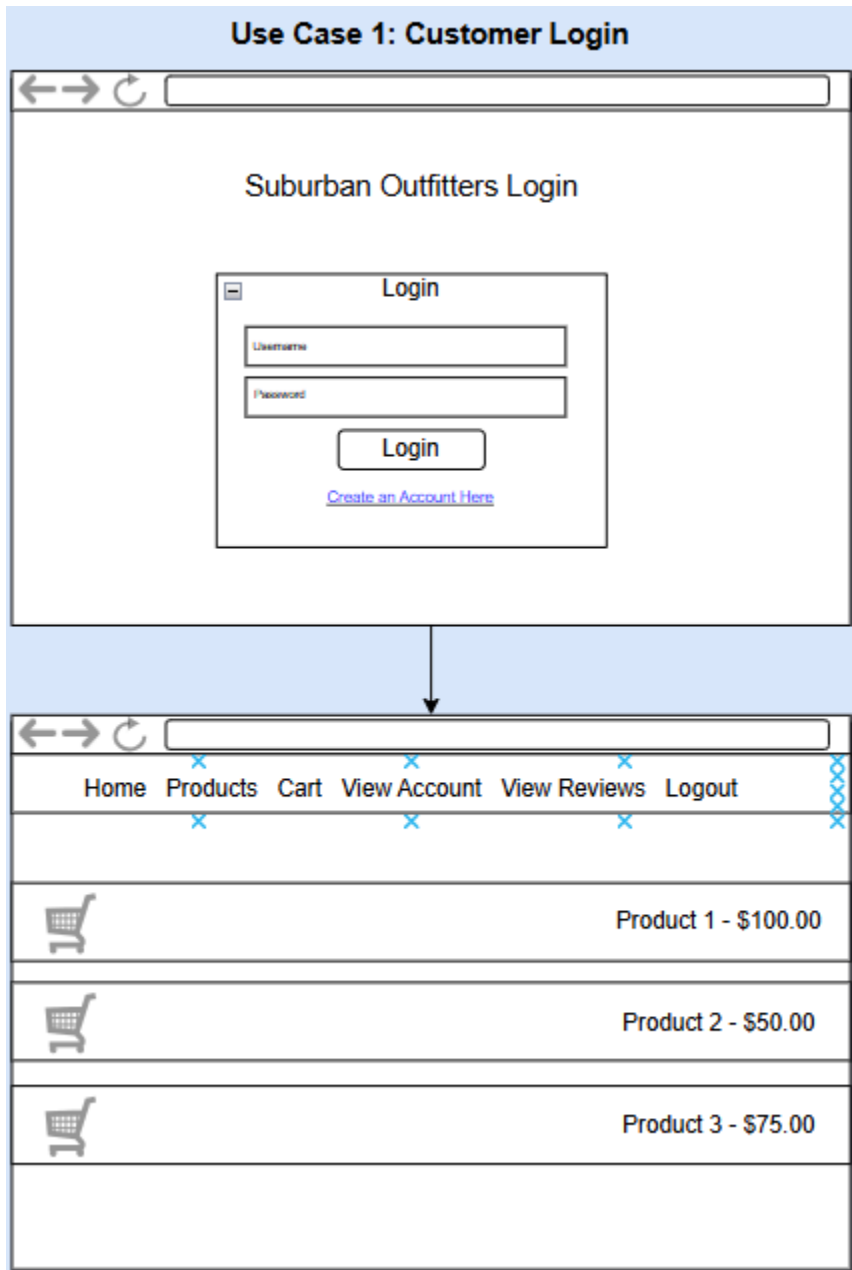
USE CASE 6: Track Sales Reports



USE CASE 7: User Management



WIREFRAMES: USER CASES



Use Case 2: Purchase Products

Home Products Cart View Account View Reviews Logout

Product 1 - \$100.00

Product 2 - \$50.00

Product 3 - \$75.00



Home Cart Logout

Product 1 - \$100.00
In Stock - 100

Product 2 - \$150.00
In Stock - 20

Product 3 - \$59.99
In Stock - 50



Product	Price	Quantity	Total	Action
	100.00	1	100.00	<input type="button" value="Remove"/>

Use Case 3: Retain Account Information

Home Products Cart View Account View Reviews Logout

Product 1 - \$100.00

Product 2 - \$50.00

Product 3 - \$75.00



MY ACCOUNT

Profile Information

Username:

Full Name:

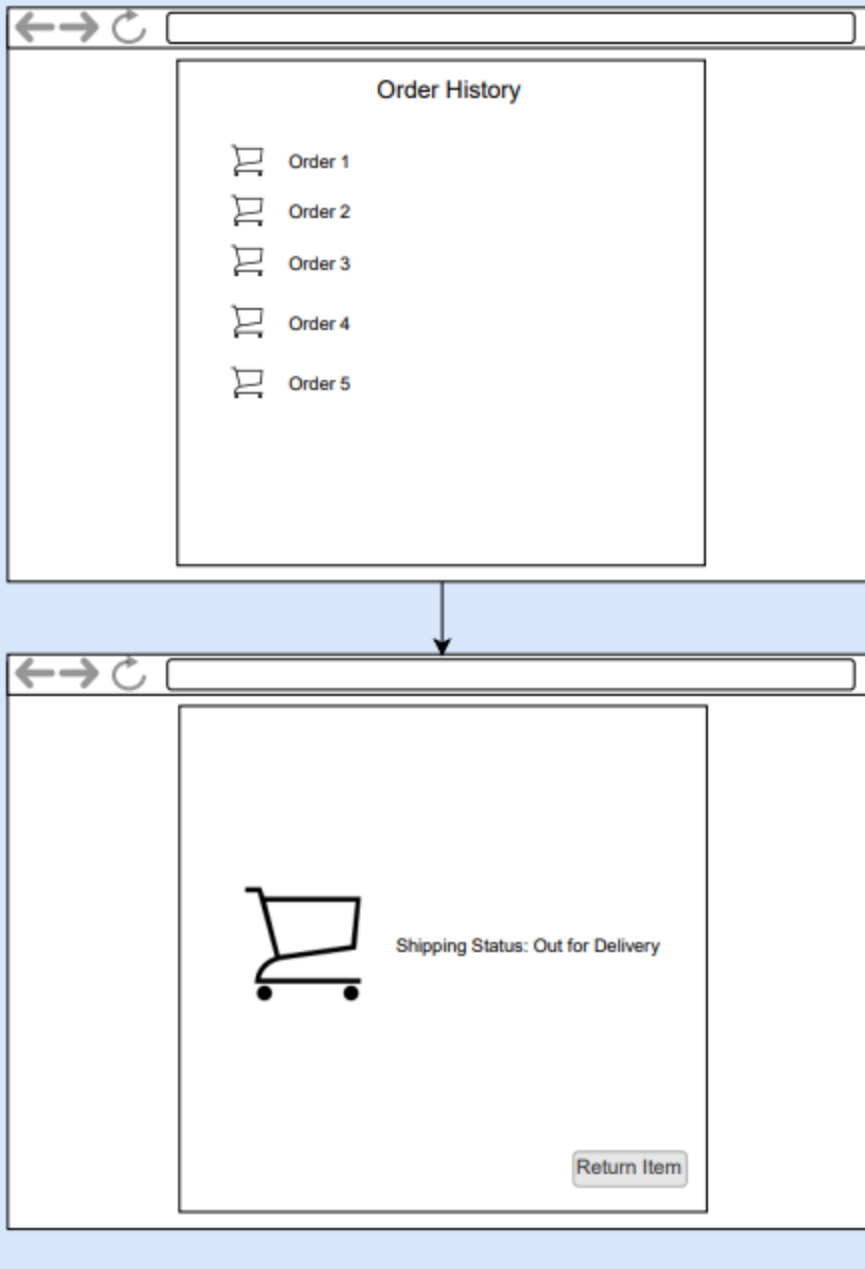
Email:

Shipping Address:

Update Account

Order History

Use Case 4: Track Shipping Information




Use Case 5: Track Product Availability

←

→


↺

Home Cart Logout




Product 1 - \$100.00
In Stock - 100

Add to Cart



Product 2 - \$150.00
In Stock - 20

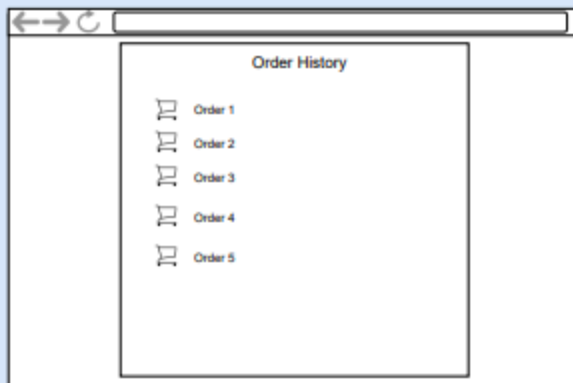
Add to Cart



Product 3 - \$59.99
In Stock - 50

Add to Cart

Use Case 6: Return Items



A web browser window with a title bar containing back, forward, and refresh icons. The main content area displays the title "Order History" above a list of five orders, each preceded by a shopping cart icon.

Order History


- Order 1
- Order 2
- Order 3
- Order 4
- Order 5



A web browser window with a title bar containing back, forward, and refresh icons. The main content area displays a shopping cart icon and the text "Shipping Status: Delivered". A "Return Item" button is located in the bottom right corner.

Shipping Status: Delivered

Return Item



A web browser window with a title bar containing back, forward, and refresh icons. The main content area displays a form titled "Update Account" with four input fields and a "Submit" button.

Update Account

Order Number

Item Name

Item Condition

Reason for Return

Submit

Use Case 7: Update Personal Information

← → ↻

MY ACCOUNT

Profile Information

Username:
Full Name:
Email:
Shipping Address:

Update Account

Order History

← → ↻

Update Account

Username

First Name

Last Name

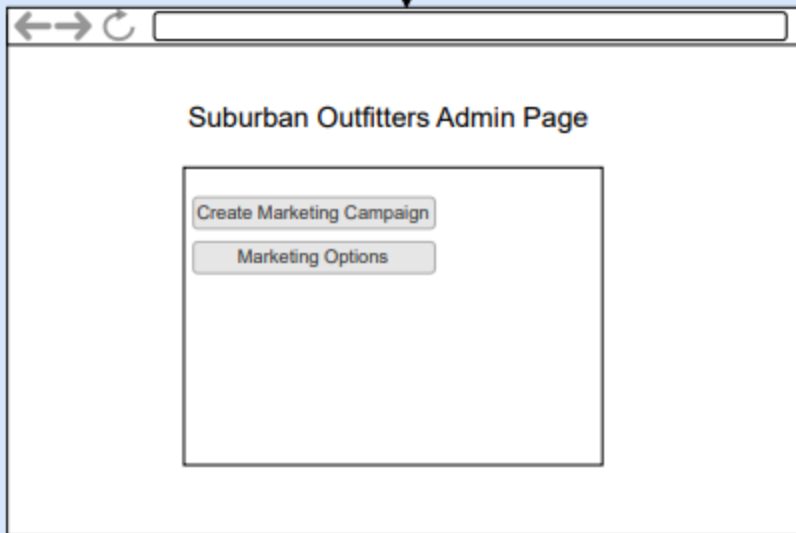
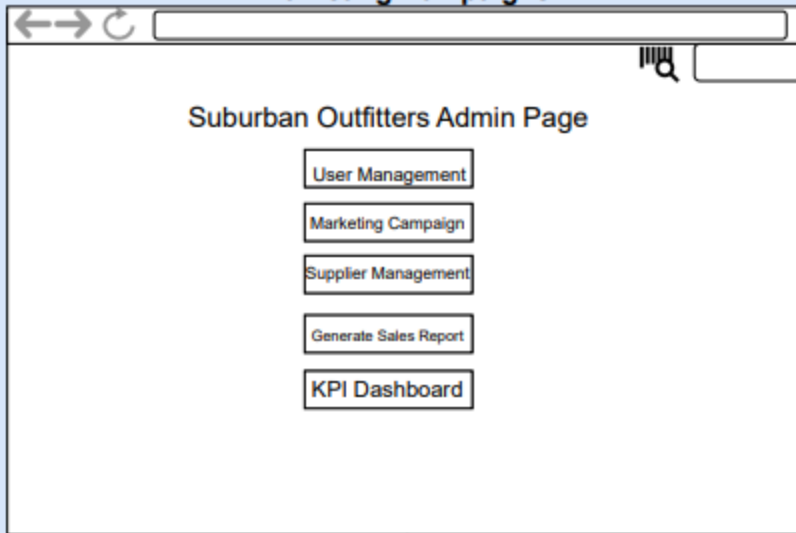
Email

Shipping Address

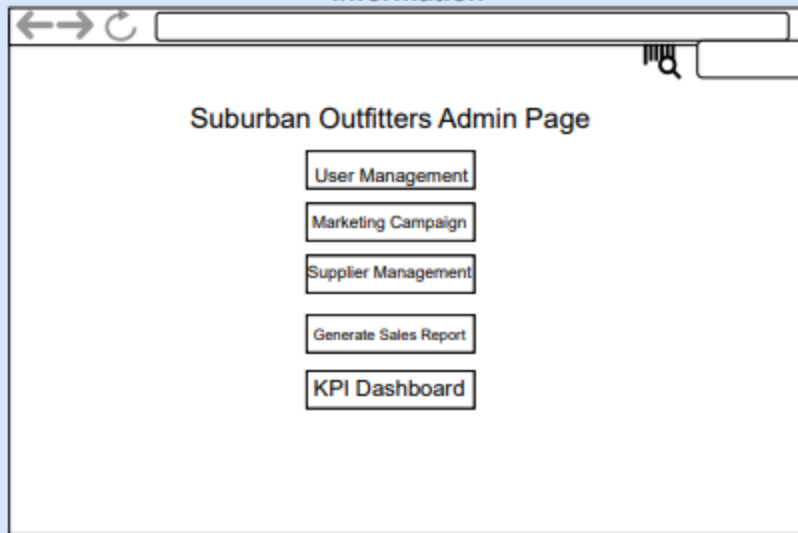
Update Account

WIREFRAMES: ADMIN CASES

Use Case 1: Create and Track Marketing Campaigns



Use Case 2: Track Supplier Information



Suburban Outfitters Admin Page

User Management

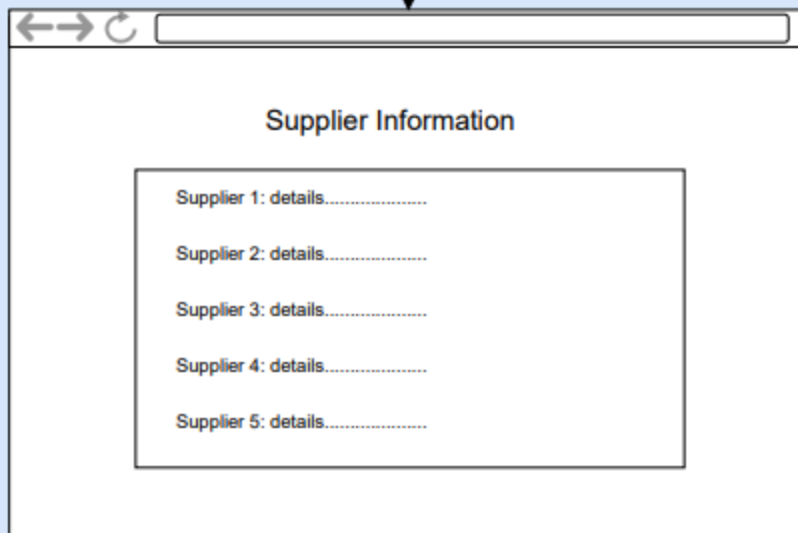
Marketing Campaign

Supplier Management

Generate Sales Report

KPI Dashboard

This screenshot shows the 'Suburban Outfitters Admin Page'. It features a navigation menu with five options: 'User Management', 'Marketing Campaign', 'Supplier Management', 'Generate Sales Report', and 'KPI Dashboard'. The page is displayed within a browser window with a search bar and navigation icons.



Supplier Information

Supplier 1: details.....

Supplier 2: details.....

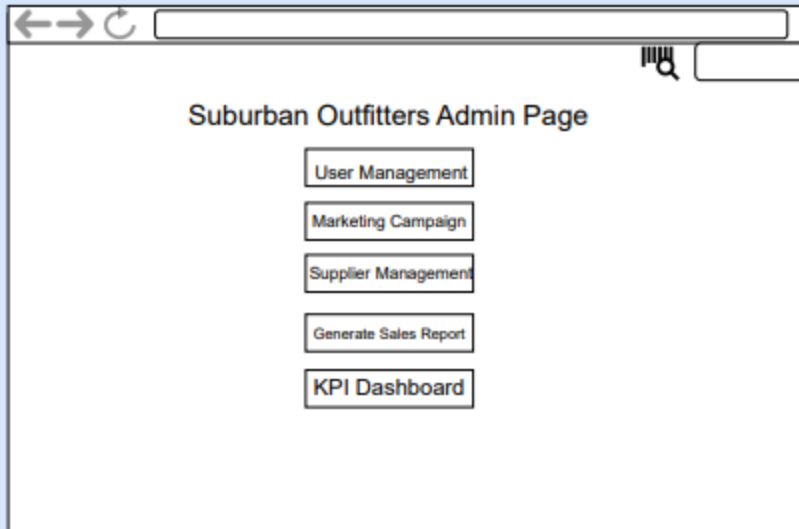
Supplier 3: details.....

Supplier 4: details.....

Supplier 5: details.....

This screenshot shows the 'Supplier Information' page. It displays a list of five suppliers, each with a 'details' link. The page is displayed within a browser window with a search bar and navigation icons.

Use Case 3: Track Customer Information



Suburban Outfitters Admin Page

User Management

Marketing Campaign

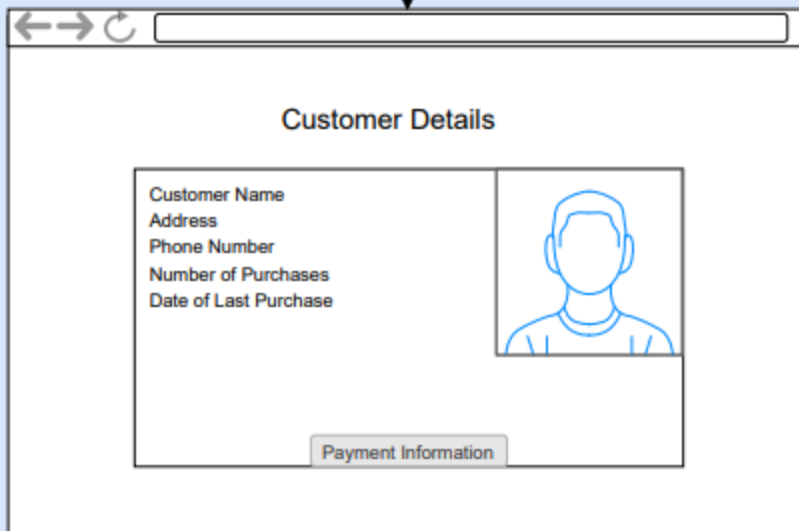
Supplier Management

Generate Sales Report

KPI Dashboard

The screenshot shows a web browser window with a navigation bar at the top containing back, forward, and refresh icons, followed by a search bar. The main content area is titled 'Suburban Outfitters Admin Page' and contains five buttons stacked vertically: 'User Management', 'Marketing Campaign', 'Supplier Management', 'Generate Sales Report', and 'KPI Dashboard'. A search icon is visible in the top right corner of the browser window.

Customer is searched in search bar on top right



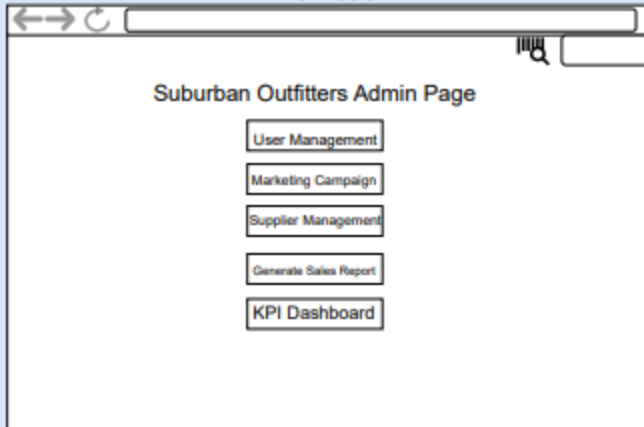
Customer Details

Customer Name
Address
Phone Number
Number of Purchases
Date of Last Purchase

Payment Information

The screenshot shows a web browser window displaying the 'Customer Details' page. The page features a list of customer information fields: 'Customer Name', 'Address', 'Phone Number', 'Number of Purchases', and 'Date of Last Purchase'. To the right of this list is a placeholder for a customer profile picture, represented by a simple line drawing of a person's head and shoulders. Below the list of fields is a button labeled 'Payment Information'.

Use Case 4: Track Payment Information



Suburban Outfitters Admin Page

User Management

Marketing Campaign

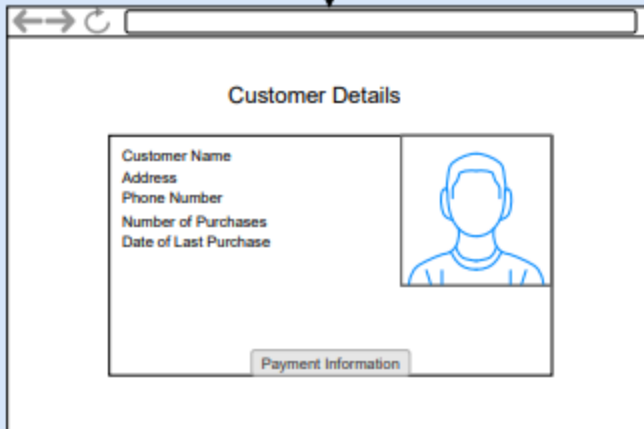
Supplier Management

Generate Sales Report

KPI Dashboard

This screenshot shows the 'Suburban Outfitters Admin Page'. It features a navigation menu with five buttons: 'User Management', 'Marketing Campaign', 'Supplier Management', 'Generate Sales Report', and 'KPI Dashboard'. A search bar is located in the top right corner of the page.

Customer is searched in search bar on top right

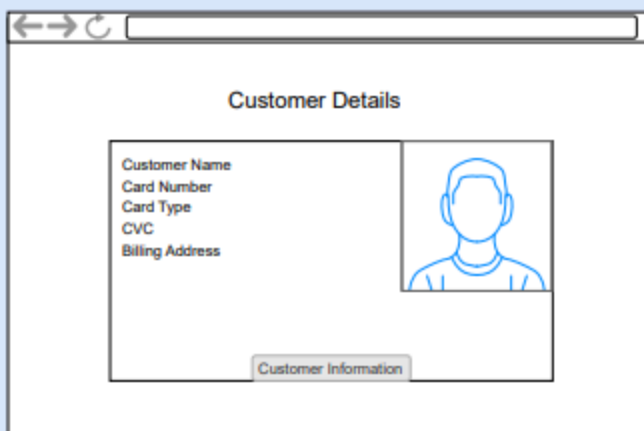


Customer Details

Customer Name
Address
Phone Number
Number of Purchases
Date of Last Purchase

Payment Information

This screenshot shows the 'Customer Details' page after a search. The page displays a list of customer information fields: 'Customer Name', 'Address', 'Phone Number', 'Number of Purchases', and 'Date of Last Purchase'. A button labeled 'Payment Information' is located at the bottom of the page.



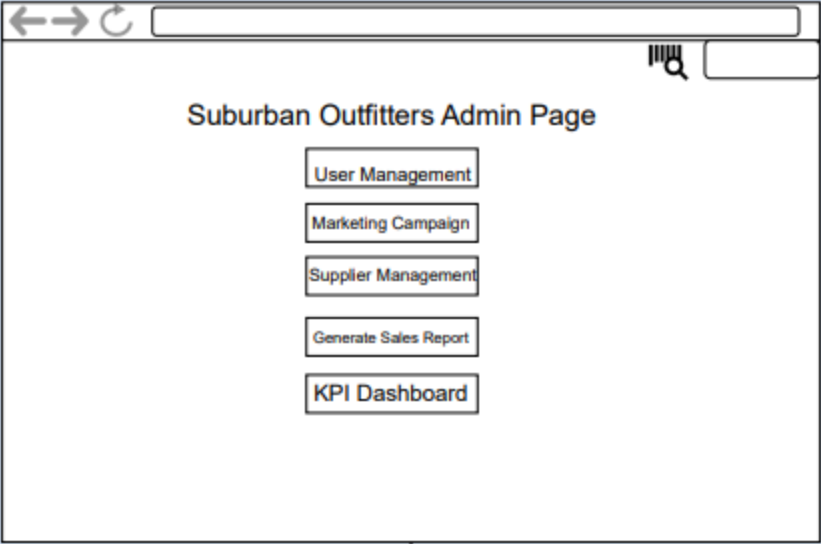
Customer Details

Customer Name
Card Number
Card Type
CVC
Billing Address

Customer Information

This screenshot shows the 'Customer Details' page after a search. The page displays a list of customer information fields: 'Customer Name', 'Card Number', 'Card Type', 'CVC', and 'Billing Address'. A button labeled 'Customer Information' is located at the bottom of the page.

Use Case 4: View KPI Dashboard



Use Case 6: Track Sales Reports

Suburban Outfitters Admin Page

User Management

Marketing Campaign

Supplier Management

Generate Sales Report

KPI Dashboard

Sales Report

WEEKLY SALES ACTIVITY

SALESPERSON Name: _____ WEEK ENDING Date: _____

LOCATION Location: _____ TODAY'S DATE Date: _____

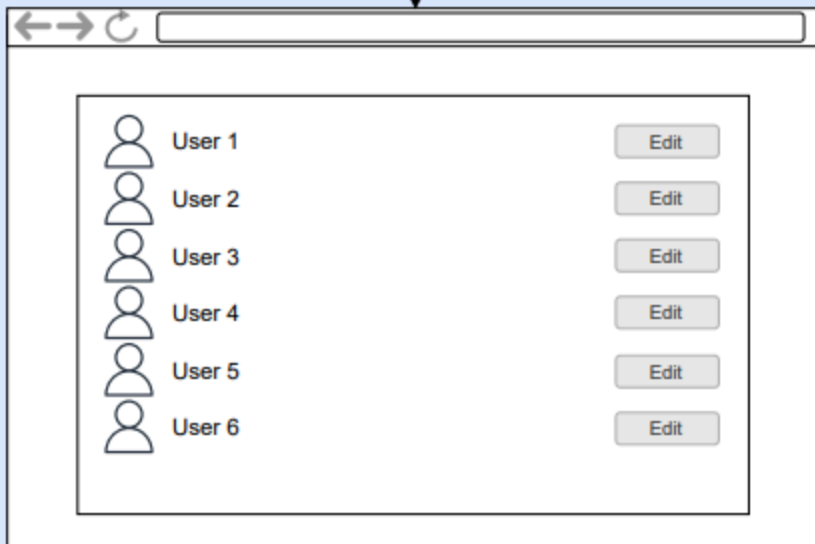
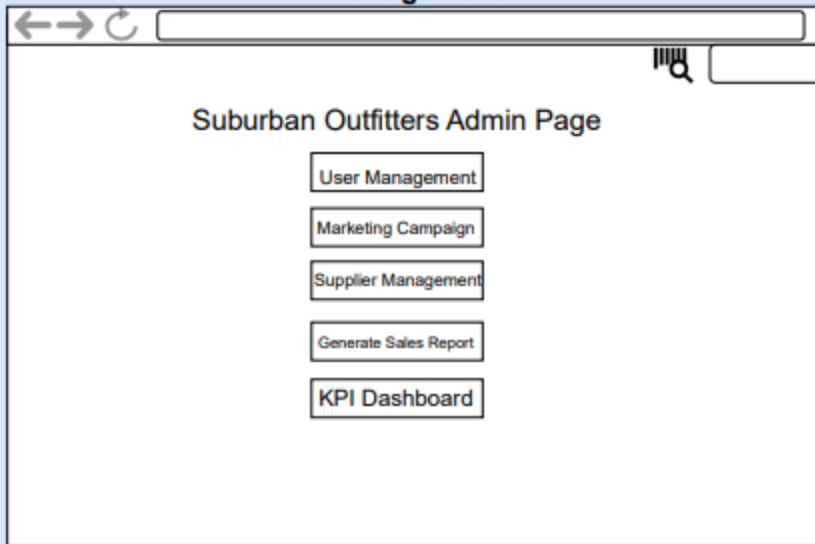
DAYS	IN SALES OFFICE	OUTSIDE OFFICE	IN OFFICE TRIPS	OUTSIDE CALLS	FILE PHONE CALLS	NEW ACCT. PHONE	GUEST ROOMS	FOOD & BEVERAGE	MTS. ROOM FEE/NTL	OTHER	TOTAL
Monday	\$14.00	\$23.00	\$6.00	\$40.00	\$22.00	\$2.00	\$300.00	\$0.00	\$0.00	\$0.00	\$379.00
Tuesday	\$23.00	\$78.00	\$10.00	\$90.00	\$54.00	\$45.00	\$80.00	\$0.00	\$0.00	\$0.00	\$330.00
Wednesday	\$4.00	\$138.00	\$11.00	\$110.00	\$67.00	\$65.00	\$490.00	\$0.00	\$0.00	\$0.00	\$776.00
Thursday	\$132.00	\$40.00	\$10.00	\$60.00	\$80.00	\$67.00	\$0.00	\$0.00	\$0.00	\$0.00	\$429.00
Friday	\$10.00	\$88.00	\$22.00	\$40.00	\$143.00	\$28.00	\$80.00	\$0.00	\$0.00	\$0.00	\$379.00
Saturday	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Sunday	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$175.00	\$324.00	\$49.00	\$171.00	\$377.00	\$225.00	\$707.00	\$0.00	\$0.00	\$0.00	\$2,601.00
GOAL	\$200.00	\$400.00	\$300.00	\$65.00	\$500.00	\$300.00	\$400.00	\$600.00	\$300.00	\$300.00	\$3,385.00
VARIANCE	-\$24.00	-\$76.00	-\$225.00	-\$112.00	-\$123.00	-\$75.00	-\$227.00	-\$600.00	-\$300.00	-\$300.00	-\$7,784.00

EXPLANATION: _____

Approval: _____

This is a sample sales report I found on Google Images

Use Case 7: User Management



ERD DIAGRAM

