Midterm Project: Kitten Factory Ski Manufacturing

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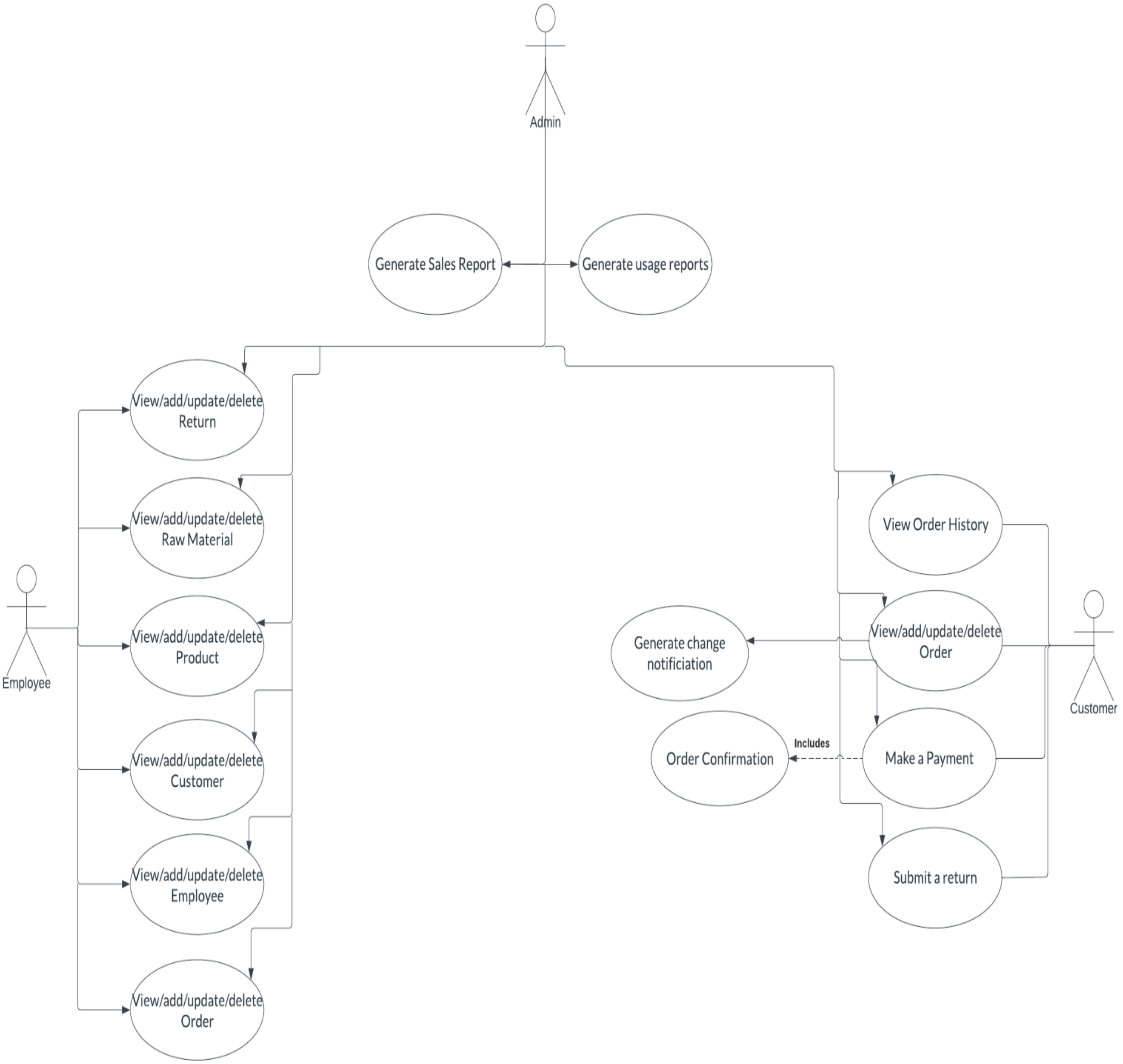
Use Case Model


Admin
Generate Sales Report
Generate usage reports
View/add/update/delete Return
View/add/update/delete Raw Material
View/add/update/delete Product
View/add/update/delete Customer
View/add/update/delete Employee
View/add/update/delete Order
Employee
View Order History
View/add/update/delete Order
Generate change notificiation
Order Confirmation
Includes
Make a Payment
Submit a return
Customer

Use Case Documents

<table>
<tr><th>Use Case #1</th><th colspan="2">View/add/update/delete a new employee</th></tr>
<tr><td>Objective</td><td colspan="2">Employee Views/adds/updates/deletes employee(s) in the system</td></tr>
<tr><td>Business Event</td><td colspan="2">Views/adds/updates/deletes employee(s) in the system</td></tr>
<tr><td>Primary Actor (s)</td><td colspan="2">Employee</td></tr>
<tr><td>Secondary Actor (s)</td><td colspan="2">None.</td></tr>
<tr><td>Pre-condition</td><td colspan="2">Employee must be logged into the system.
Employee clicks on the ‘Edit Employees’ link in the home page.</td></tr>
<tr><td>Post-condition</td><td colspan="2">User is forwarded to the View Employee List Page.</td></tr>
<tr><td>Failure outcomes</td><td colspan="2">Employee is in the add new Employee page.
Employee is shown an error message ‘Error in adding a new Employee’.</td></tr>
<tr><th>Flow of Events</th><th>Actor</th><th>System</th></tr>
<tr><td>1</td><td>Employee in the home page of the website(home.php).
User clicks on the edit employees page (edit -employees.php).</td><td>Edit Employees page is shown.</td></tr>
</table>

2	Employee clicks on either view/add/update/delete employee details.	Employee is shown perspective link
3	Employee submits the prompted form.	Connect to the database. Insert employee details into the Employee table. Forward employee to the view-employee-list.php page.
4	Employee sees the view-employee-list.php page.	

Use Case #2	Customer can view/add/update/delete an order
Objective	View/add/update/delete an order into the system
Business Event	View/add/update/delete an order into the system
Primary Actor (s)	Customer
Secondary Actor (s)	None
Pre-condition	Customer must be logged into the system, or consents to operating as a ‘guest’. There must be at least one item in the cart before order can be submitted.
Post-condition	User is forwarded to the payment information page.
Failure outcomes	Item is out of stock.

Flow of Events	Actor	System
1	Customer is on the homepage of the website. User clicks on shopping cart.	Order detail page is shown.
2	Customer clicks on either view/add/update/delete order.	Customer is shown perspective links
3	Customer submits the corresponding order.	Connect to the database Pull relevant customer and product information. Forward customer to the payment page.
4	Customer sees the payment page.	

Use Case #3	View/add/update/delete Raw Materials
Objective	View/add/update/delete Raw Material(s) into the system
Business Event	View/add/update/delete Raw Material(s) into the system
Primary Actor (s)	Employee
Secondary Actor (s)	None

Pre-condition	Employee must be logged into the system. Employee clicks on the ‘Edit Raw Materials’ link in the home page	
Post-condition	User is forwarded to the View Raw Materials List Page.	
Failure outcomes	Employee is in the Raw Materials List Page Employee is shown an error message “No Raw Materials in stock/available”	
Flow of Events	Actor	System
1	Employee is in the home page of the website (home.php) User clicks on the Raw Materials List page (raw-materials-list.php)	Raw Materials List page is shown
2	Employee clicks on either view/add/update/delete Raw Materials	Employee is shown perspective link
3	Employee submits the prompted form	Employee is connected to the Raw Materials database Raw Materials are updated as used

Use Case #4	View/add/update/delete Products
Objective	View/add/update/delete Product(s) into the system

Business Event	View/add/update/delete Product(s) into the system	
Primary Actor (s)	Employee	
Secondary Actor (s)	None	
Pre-condition	Employee must be logged into the system. Employee clicks on the ‘Edit Products’ link in the home page.	
Post-condition	User is forwarded to the Products List Page	
Failure outcomes	Employee is in the Products List page. Employee is shown an error message ‘Unable to display products’	
Flow of Events	Actor	System
1	Employee is in the home page of the website (home.php) User clicks on the Products page (products.php)	Products List page is shown
2	Employee clicks on either view/add/update/delete Product details.	Employee is shown perspective link

3	Employee submits the prompted form	Employee is connected to the Products database Products are updated as sold

Use Case #5	View/add/update/delete Customers
Objective	View/add/update/delete Customer(s) into the system
Business Event	View/add/update/delete Customer(s) into the system
Primary Actor (s)	Employee
Secondary Actor (s)	None
Pre-condition	Employee must be logged into the system. Employee clicks on the ‘Edit Customers’ link in the home page
Post-condition	User is forwarded to the View Customers List Page
Failure outcomes	Employee is in the Customers List Page Employee is shown an error message “Unable to display Customers”

Flow of Events	Actor	System
1	Employee is in the home page of the website (home.php) User clicks on the Customers List page (customers-list.php)	Customers List page is shown
2	Employee clicks on either view/add/update/delete Customers	Employee is shown perspective link
3	Employee submits the prompted form	Employee is connected to the Customers database Customers are updated as they purchase products

Use Case #6	Generate Sales Report
Objective	Generate a Sales Report from sales recorded in the system
Business Event	Generate a Sales Report from sales recorded in the system
Primary Actor (s)	Admin
Secondary Actor (s)	None
Pre-condition	Admin must be logged into the system Admin looks at the OrderLine to determine Quantity and Price

Post-condition	Based off the Quantity and Price the Admin generates a sales report	
Failure outcomes	Admin is unable to retrieve accurate quantity and price so the sales report is inaccurate	
Flow of Events	Actor	System
1	Admin is in the home page of the website (home.php) Admin goes into the MySQL database for OrderLine	OrderLine database is shown
2	Admin accesses the Quantity and Price within the OrderLine	In the Database the data for Quantity and Price is displayed
3	Admin generates the Sales Report from multiplying the Quantity and Price	Quantity and Price are multiplied
4	Admin Generates Sales Report	

Use Case #7	Generate Popularity Reports
Objective	Generate purchasing reports based on type of product sold to display
Business Event	Generate purchasing reports based on type of product sold to display

Primary Actor (s)	Admin	
Secondary Actor (s)	None	
Pre-condition	There must be data of products purchased and quantity	
Post-condition	A display is shown of the most popular and least popular products	
Failure outcomes	There is no data for a selected category so an error will be thrown	
Flow of Events	Actor	System
1	Admin is in the Admin logged on page of the website(Admin-logged-on.php). Admin clicks on the generate popularity report (popularity-report.php).	System has authenticated Admin
2	Admin selects desired products to display and time period	Selections are stored and sent to php command
3	An Admin selects display and a display is generated for inputted data	A select query is ran and displays data based on admins choices

Use Case #8	View Order History	
Objective	View order history	
Business Event	View order history	
Primary Actor (s)	Customer	
Secondary Actor (s)	None	
Pre-condition	Customer must be logged into the system Customer clicks on “View Order History”	
Post-condition	Customers Order History is displayed	
Failure outcomes	Customer is in the View Order History and they either have not ordered anything so nothing is displayed, or the database for orders is unable to be accessed showing the error message “Unable to access Order History”	
Flow of Events	Actor	System
1	Customer is in the home page of the website (home.php) User clicks on the View Order History page (view-order-history.php)	View Order History page is shown

2	Customer is able to see their order history if they made prior purchases	Customer is shown perspective link

Use Case #9	View/add/update/delete Order	
Objective	Employee Views/adds/updates/deletes order(s) in the system	
Business Event	Views/adds/updates/deletes order(s) in the system	
Primary Actor (s)	Employee	
Secondary Actor (s)	None	
Pre-condition	Employee must be logged into the system Employee clicks on the “Edit Orders” link on the home page	
Post-condition	User is forwarded to the View Order List Page	
Failure outcomes	Employee is in the add new Order page. Employee is shown an error message ‘Error in adding a new Order’.	
Flow of Events	Actor	System

1	Employee in the home page of the website(home.php). User clicks on the edit orders page (edit-orders.php).	Edit Orders page is shown.
2	Employee clicks on either view/add/update/delete order details.	Employee is shown perspective link
3	Employee submits the prompted form.	Connect to the database. Insert order details into the Orders table. Forward employee to the view-order-list.php page.

Use Case #10	Make a Payment
Objective	Customer makes payment for order to complete order.
Business Event	Customer makes payment for order to complete order.
Primary Actor (s)	Customer
Secondary Actor (s)	None
Pre-condition	Customer must be logged into the system Customer must have an order placed in order to submit payment

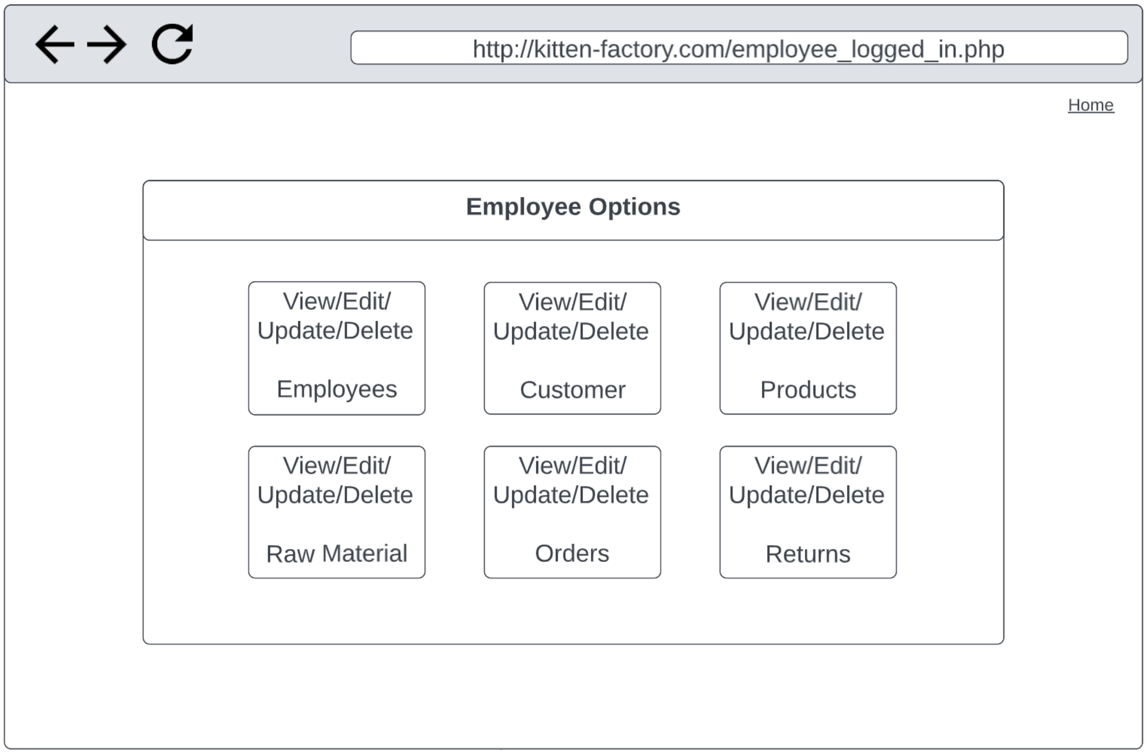
Post-condition	Payment is made confirming order	
Failure outcomes	Payment is declined spawning the message “Unable to process payment”	
Flow of Events	Actor	System
1	Customer is in the home page of the website (home.php) User clicks on the Products page (products.php)	Products page is shown
2	Customer chooses which products they would like to purchase	Customer is shown perspective link
3	Customer confirms order and is sent to payment (payment.php)	Payment page is shown
4	Payment is received and order is confirmed to Customer	Payment is received and Order is processed

Use Case #11	Submit a return
Objective	Submit a return and receive a refund

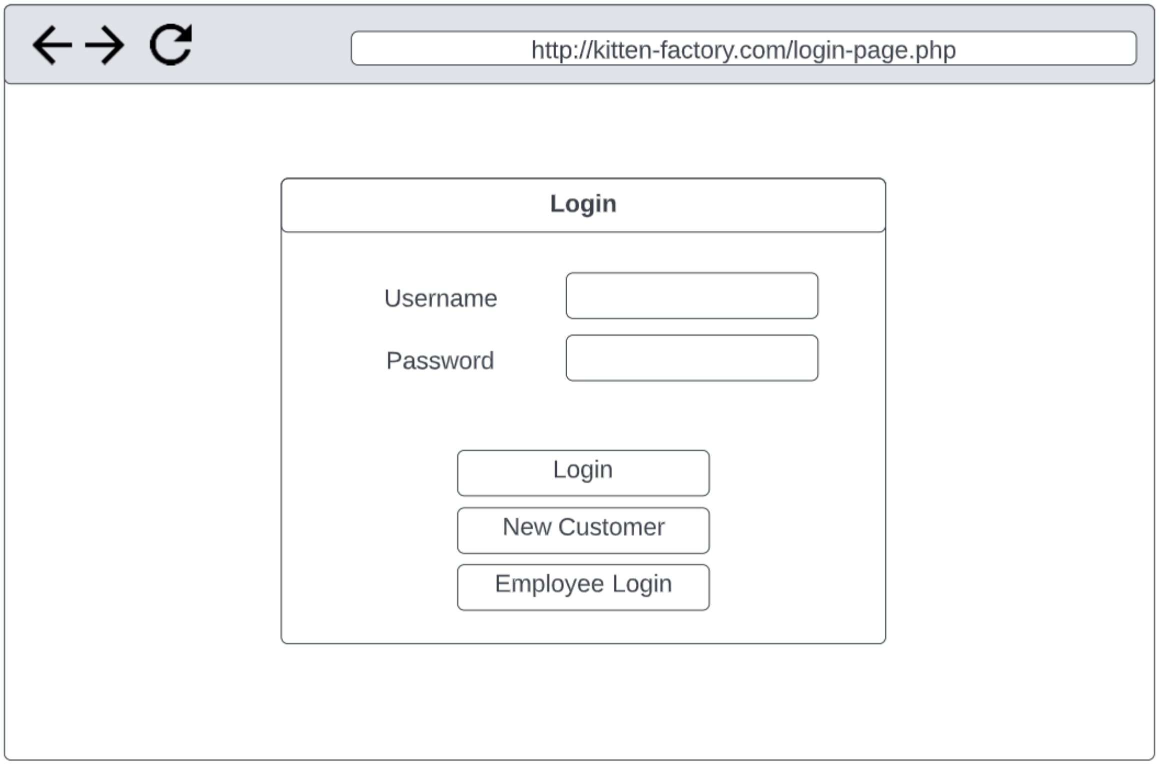
Business Event	Submit a return and receive a refund	
Primary Actor (s)	Customer	
Secondary Actor (s)	None	
Pre-condition	Customer must be logged into the system Customer must have previously made an order	
Post-condition	Order is returned and a refund is issued	
Failure outcomes	If the order was never made initially then it can not be refunded	
Flow of Events	Actor	System
1	Customer is in the home page of the website (home.php) User clicks on the Returns page (returns.php)	Returns page is shown
2	Customer puts in Order number for the order they would like to return	Customer is shown perspective link
3	Customer issues Order return with proper information for receiving refund Customer receives refund	Order return and refund are processed Refund is made

Wire frame diagram(s) for each use case

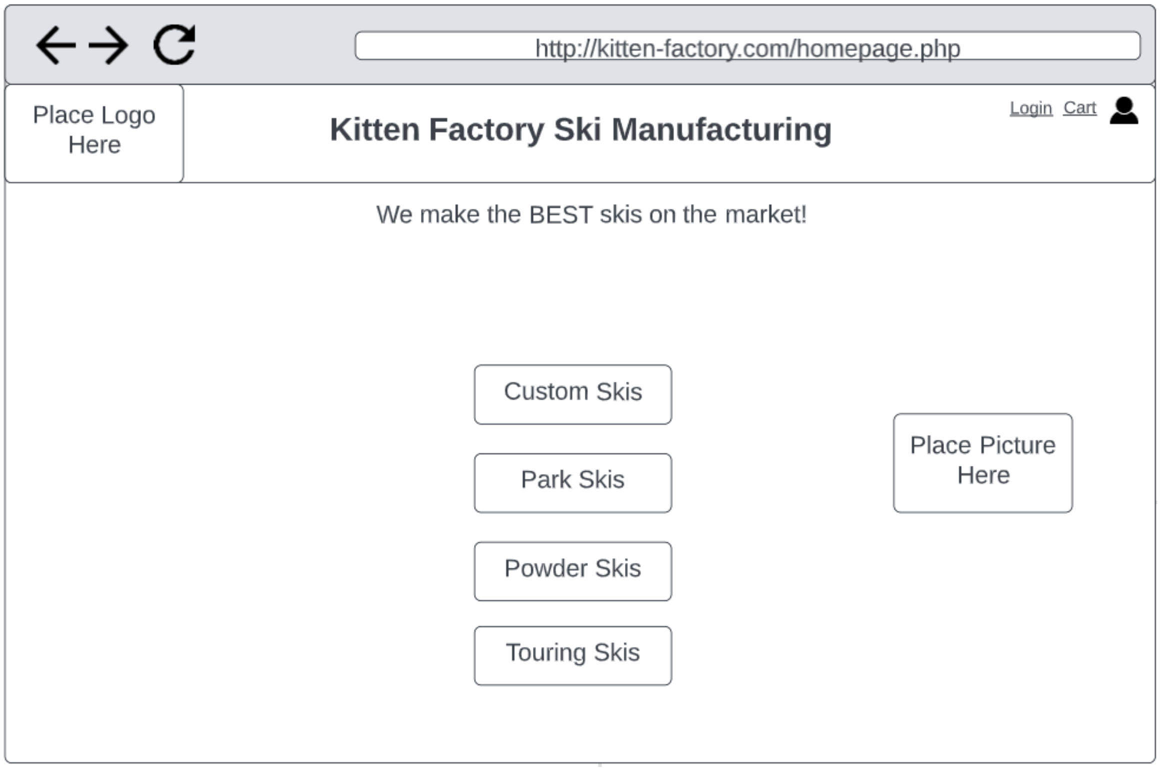
Employee log on successful


http://kitten-factory.com/employee_logged_in.php
Home
Employee Options
View/Edit/ Update/Delete Employees
View/Edit/ Update/Delete Customer
View/Edit/ Update/Delete Products
View/Edit/ Update/Delete Raw Material
View/Edit/ Update/Delete Orders
View/Edit/ Update/Delete Returns

Login Page

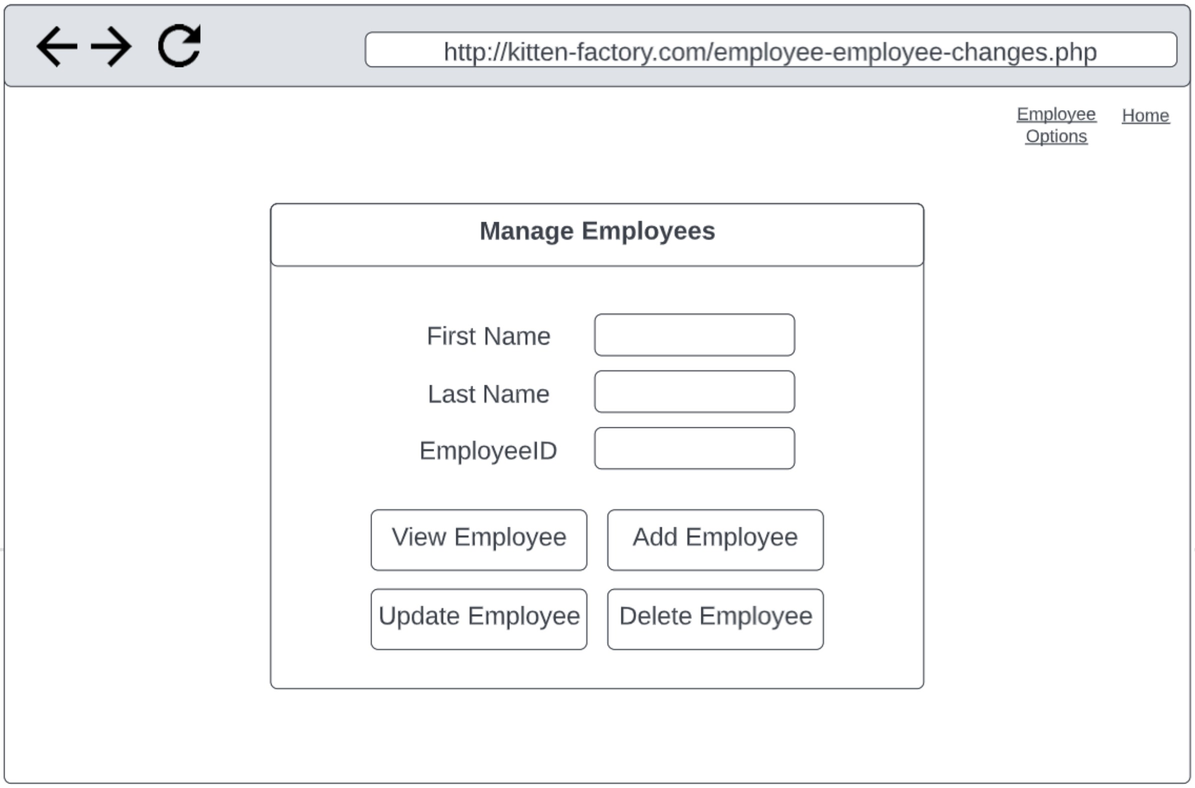


Homepage

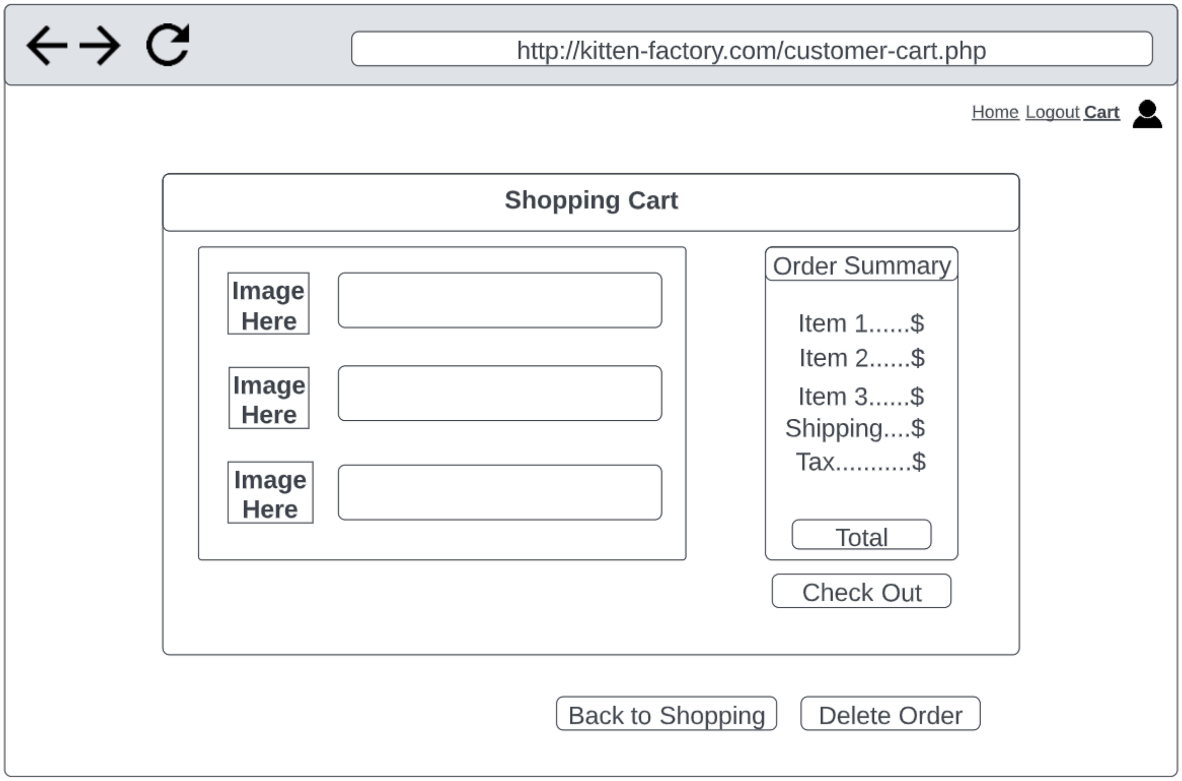


We make the BEST skis on the market!

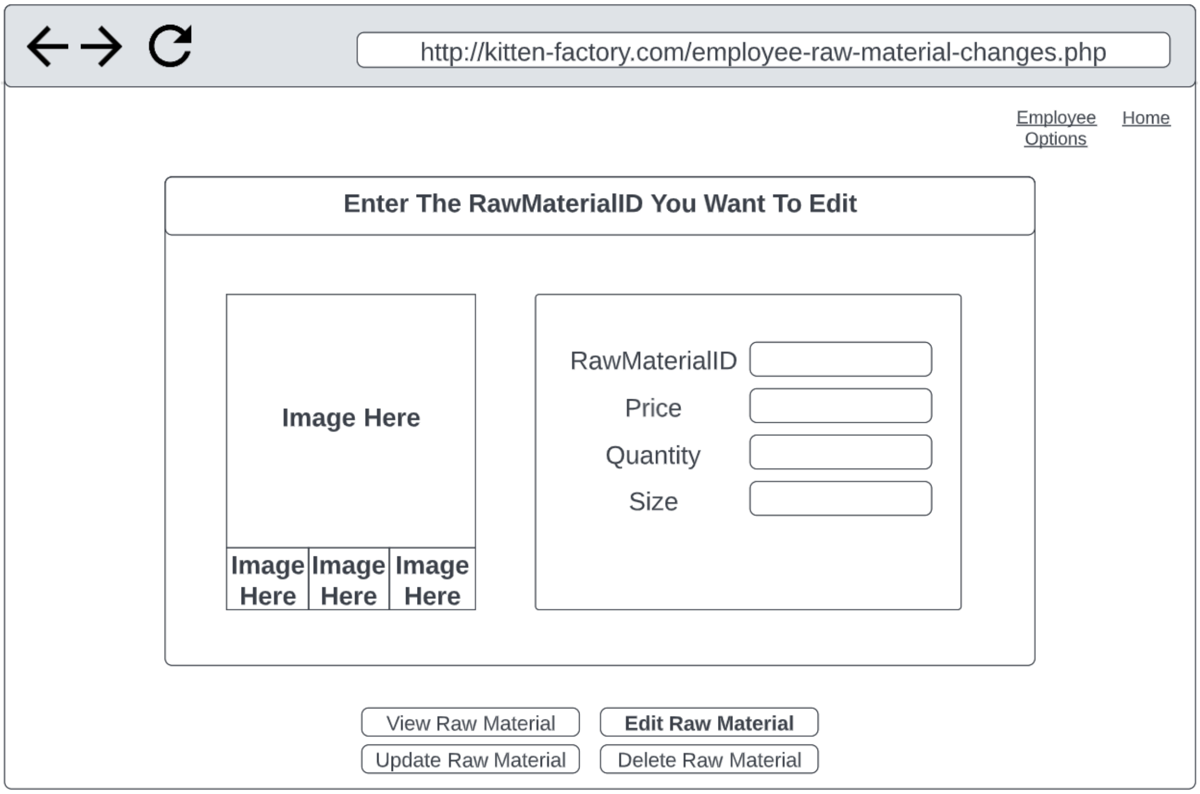
1. View/add/update/delete a new employee



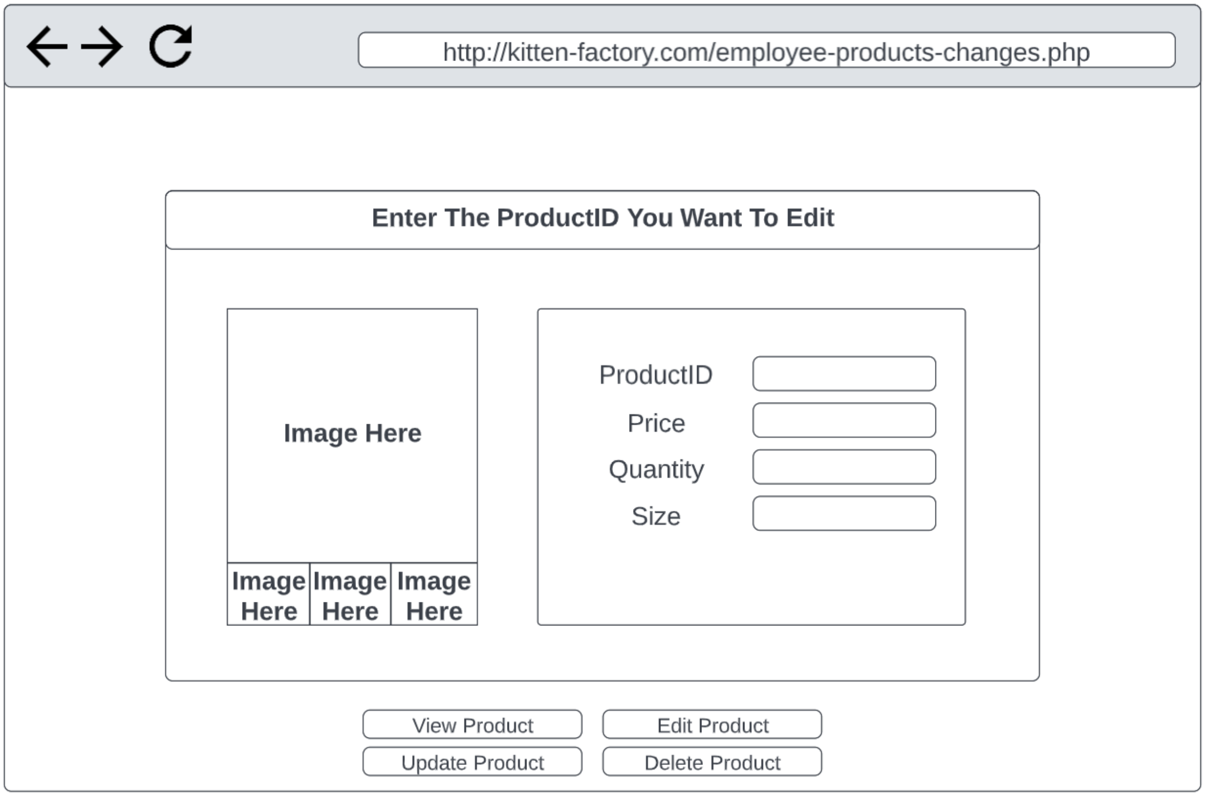
2. Customer View/Add/Update/Delete Order



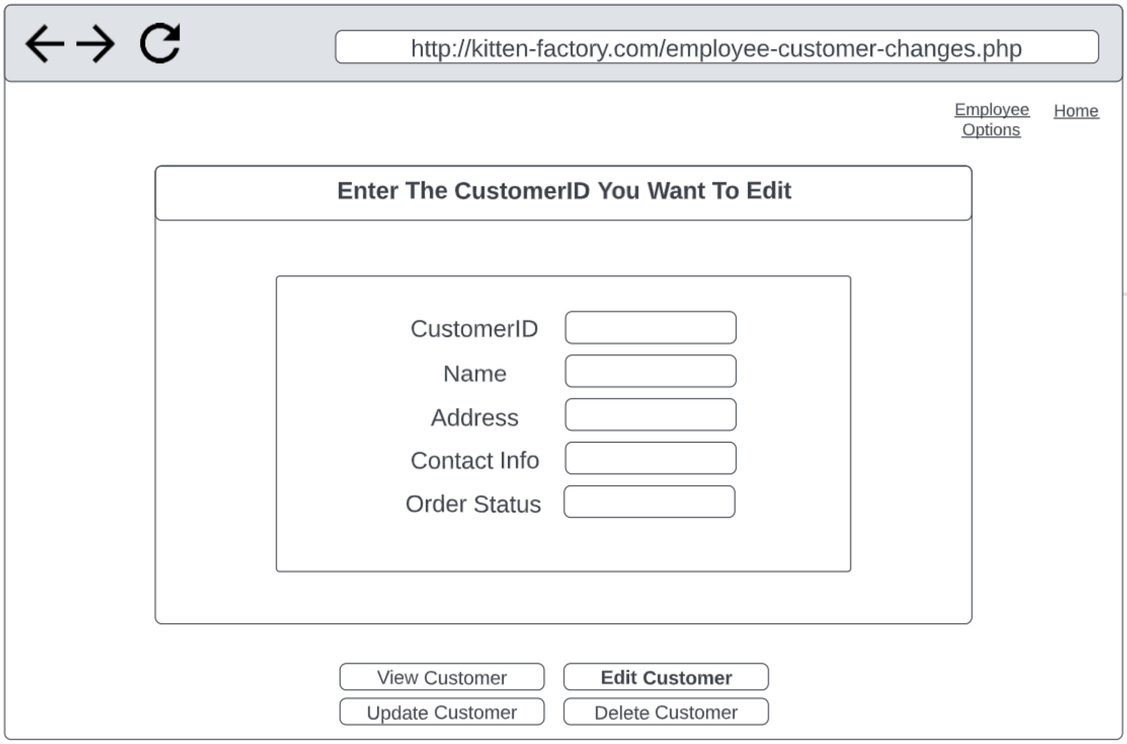
3. View/Add/Update/Delete raw materials



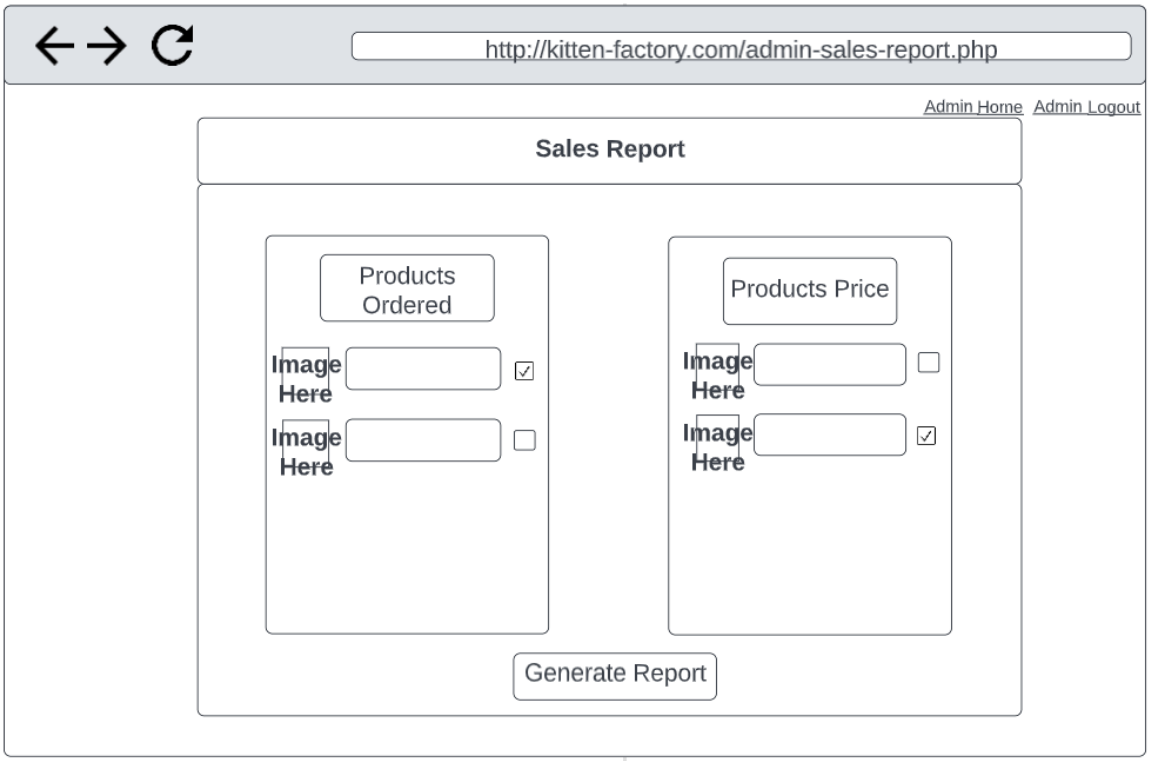
4. View/Add/Update/Delete Products



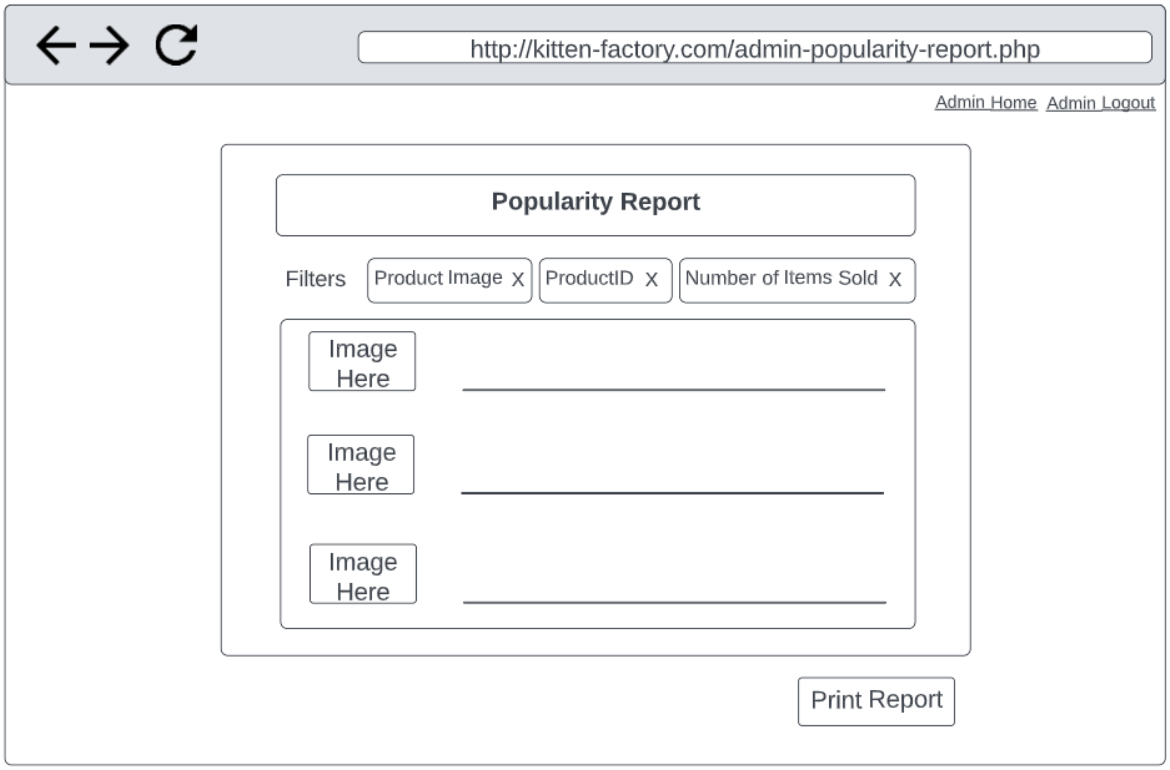
5. Employee View/Add/Update/Delete Customers



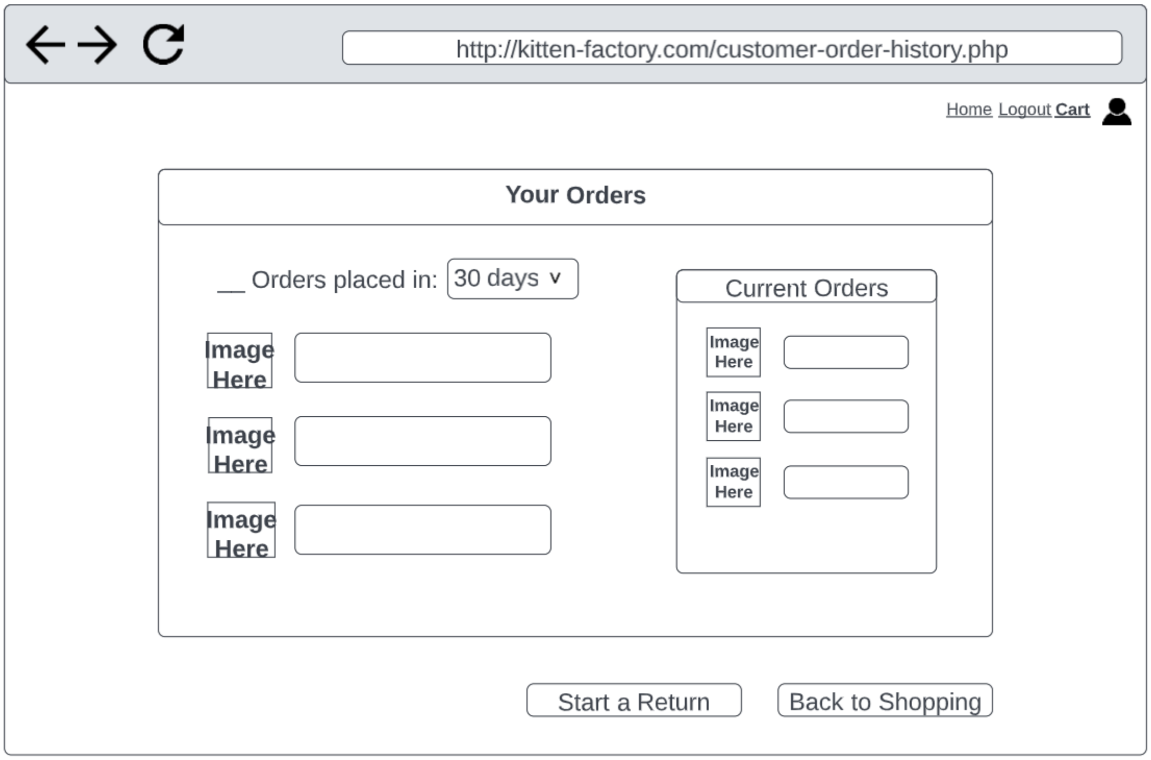
6. Admin Generate Sales Report



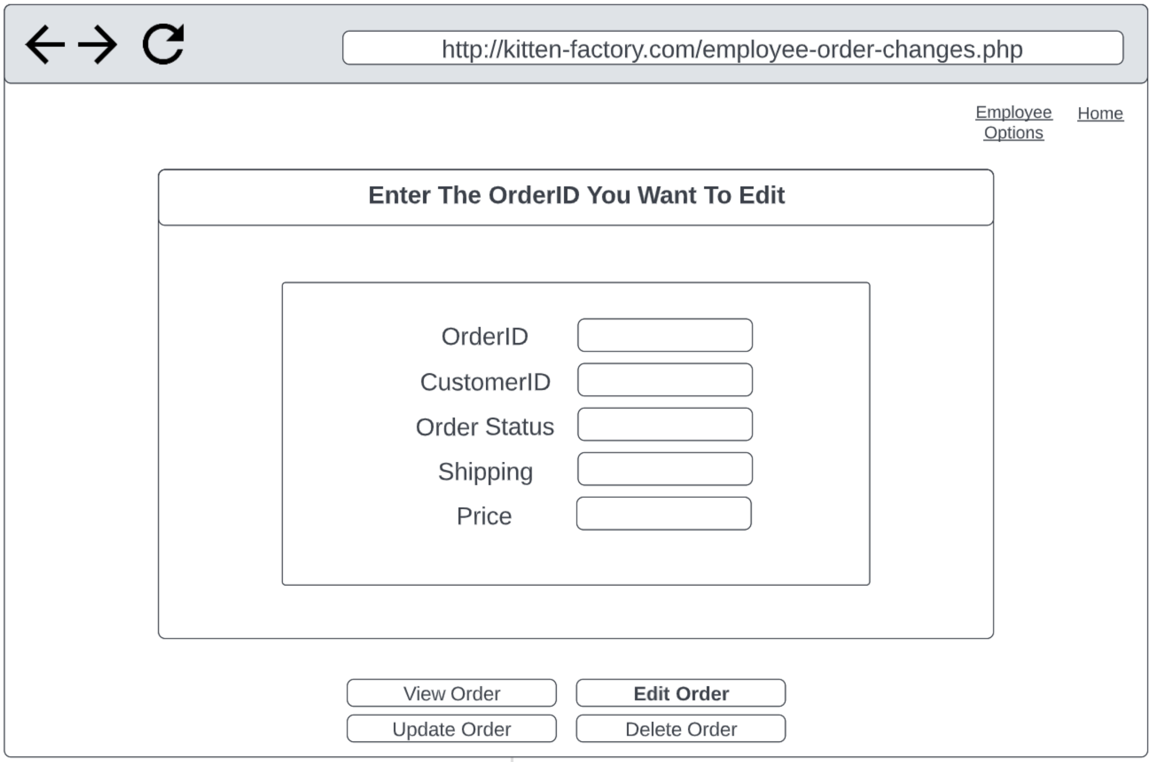
7. Generate Popularity Reports



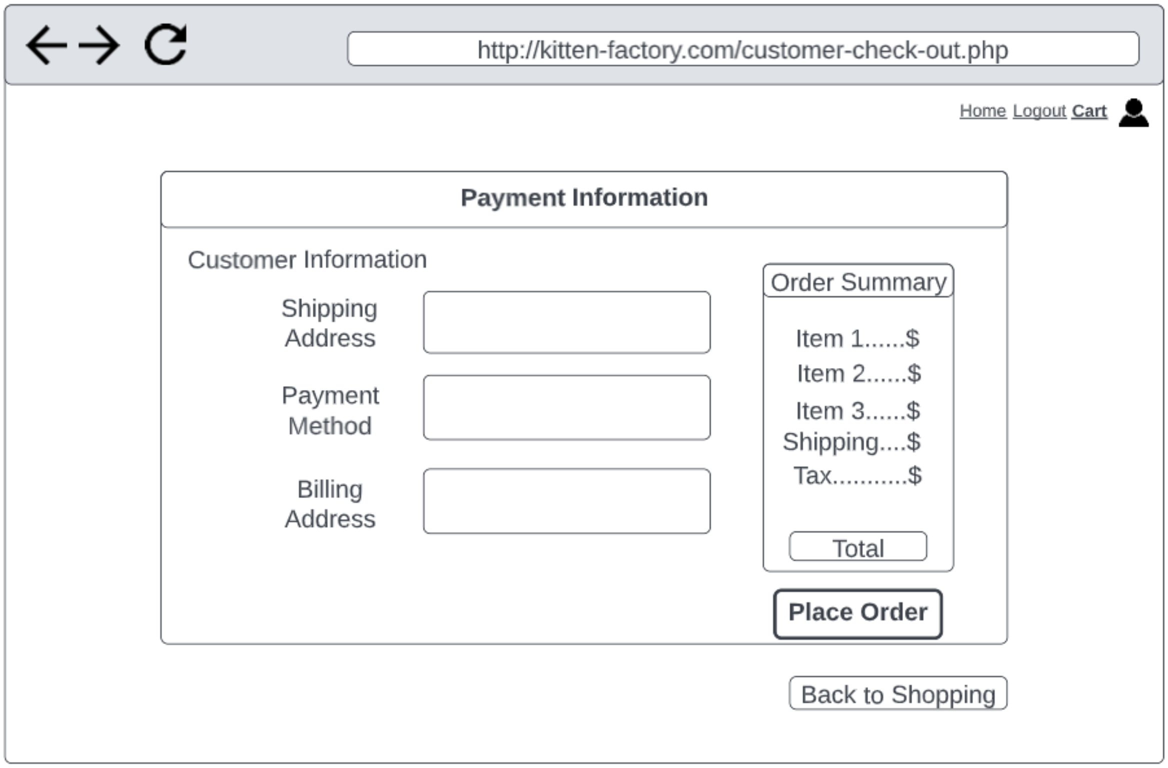
8. View Order History



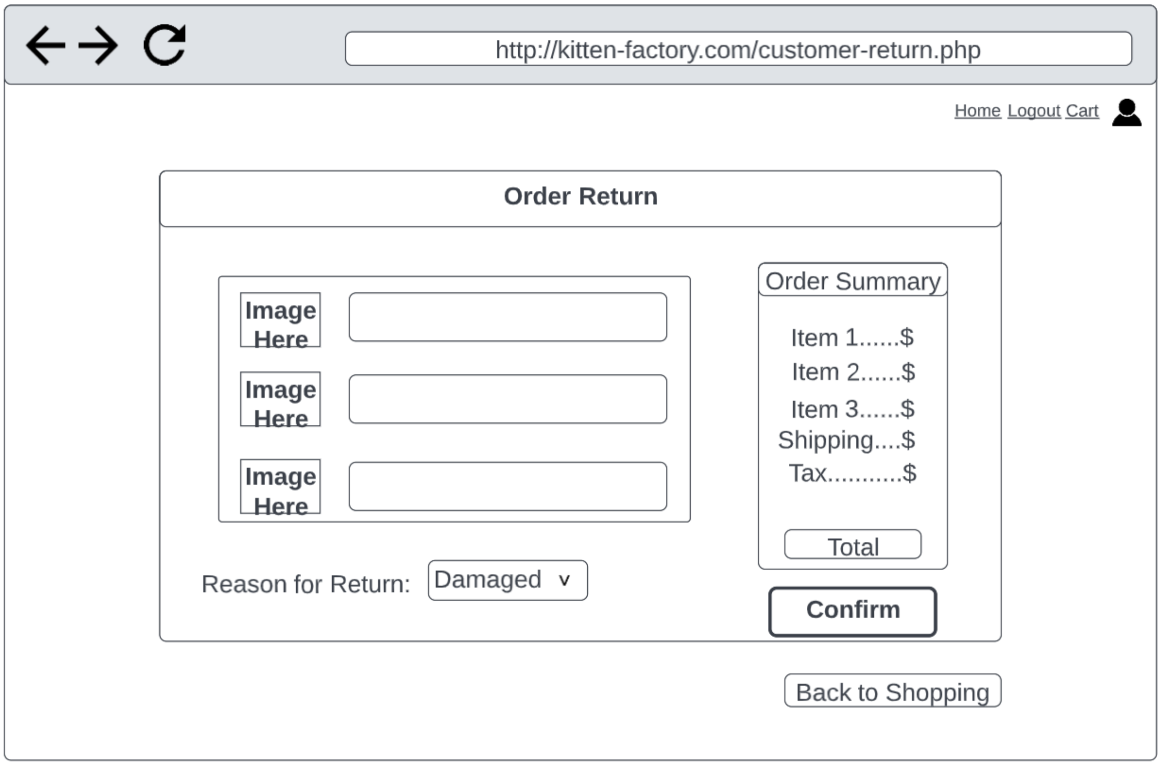
9. Employee View/Add/Update/Delete Order



10. Make a payment



11. Submit a return



http://kitten-factory.com/customer-return.php

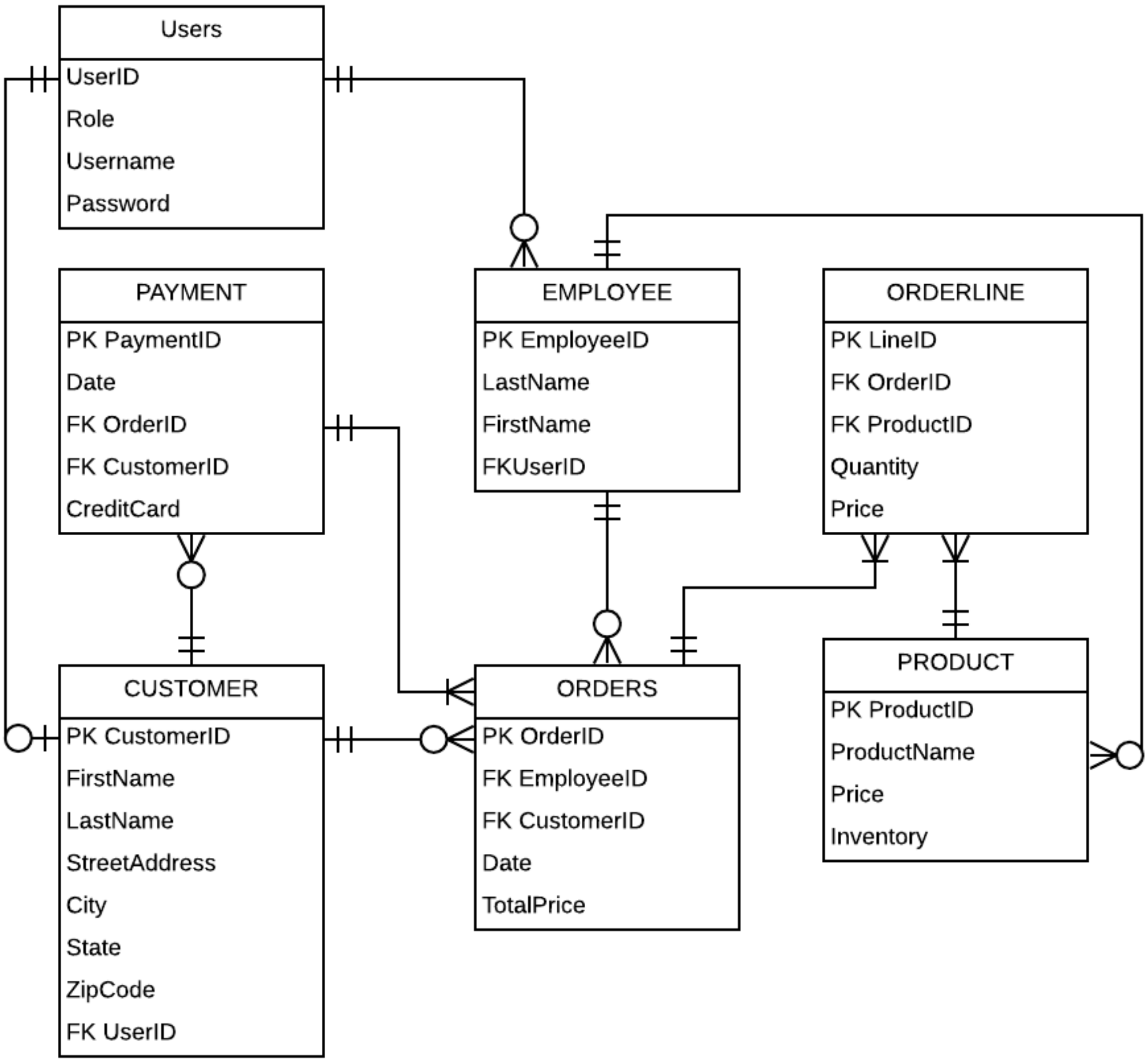
Order Return

Order Summary

Item 1......$
Item 2......$
Item 3......$
Shipping....$
Tax...........$

Reason for Return: Damaged v

ERD



Ethics

Our group will keep into account how customers' personal credit card information will be used to purchase our products. This data is very important to keep secure as if this data is leaked or stolen, millions of dollars can be lost from customers and we will lose not only their trust but the trust of new customers. An example of this being very important is the Target case we talked about in class where ⅓ of customers' credit card data was leaked which lost them hundreds of millions of dollars.

Another factor we wanted to keep in mind was how important making our UI seamless and simple for a user. Poor UI even with really good architecture will hurt user experience and severely decrease the growth of our website and company. We also do not want to fall into the trap of customers accidentally selecting options they did not mean to which would lead to many more returns of our products which we want to limit as much as possible.