



AMETHYST

jewelry Store

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## B. Database design

### 1. ER design

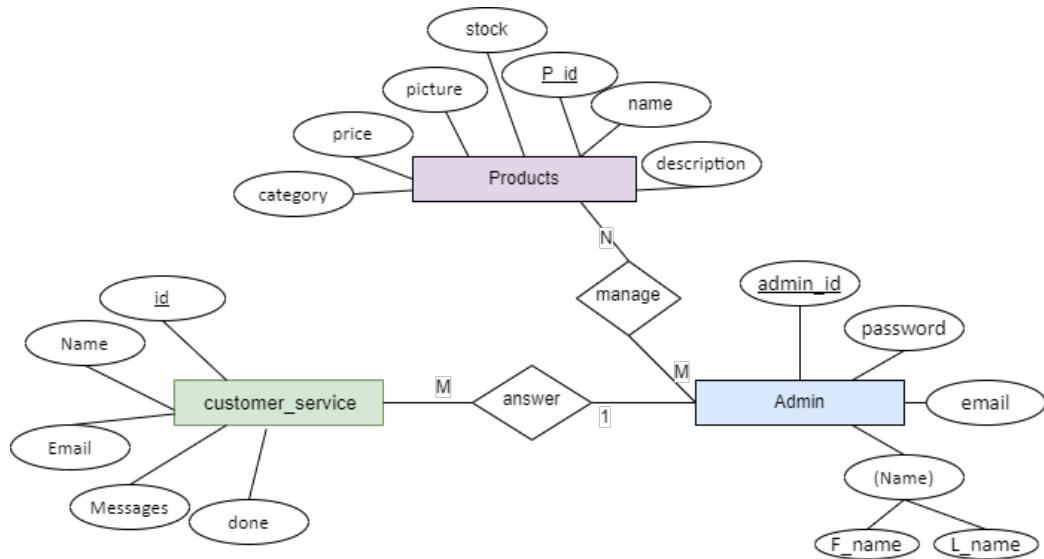


Figure 1: Amethyst Store ER design

### 2. Tables

- **Admin Table**

	← T →	admin_id	F_name	L_name	email	password
<input type="checkbox"/>	Edit  Copy  Delete	12312355	Hajar	Bawazir	Hajar.11@gmail.com	Hajar.123456
<input type="checkbox"/>	Edit  Copy  Delete	12477845	Sahar	Alzahrani	Sahar.22@gmail.com	Sahar.965835
<input type="checkbox"/>	Edit  Copy  Delete	12511789	Wadha	Alhajri	Wadha.33@gmail.com	Wadha.643843
<input type="checkbox"/>	Edit  Copy  Delete	12633221	Teaf	Bashamakh	Teaf.44@gmail.com	Teaf.537436
<input type="checkbox"/>	Edit  Copy  Delete	12799003	Asma	Alhajri	Asma.55@gmail.com	Asma.653754
<input type="checkbox"/>	Edit  Copy  Delete	12814467	Lama	Alghamdi	Lama.66@gmail.com	Lama.464378
<input type="checkbox"/>	Edit  Copy  Delete	12999734	Nour	Almatroudi	Nour.77@gmail.com	Nour.654785
<input type="checkbox"/>	Edit  Copy  Delete	13067846	Waad	Alsobi	Waad.88@gmail.com	Waad.654784

Figure 2: Admin Table

- Products Table

	<input type="button" value="T"/>	<input type="button" value="L"/>	<input type="button" value="D"/>	admin_id	F_name	L_name	email	password
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12312355	Hajar	Bawazir	Hajar.11@gmail.com	Hajar.123456
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12477845	Sahar	Alzahrani	Sahar.22@gmail.com	Sahar.965835
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12511789	Wadha	Alhajri	Wadha.33@gmail.com	Wadha.643843
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12633221	Teaf	Bashamakh	Teaf.44@gmail.com	Teaf.537436
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12799003	Asma	Alhajri	Asma.55@gmail.com	Asma.653754
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12814467	Lama	Alghamdi	Lama.66@gmail.com	Lama.464378
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12999734	Nour	Almatroudi	Nour.77@gmail.com	Nour.654785
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13067846	Waad	Alsobi	Waad.88@gmail.com	Waad.654784

Figure 3: Products Table

- Customer Service Table

	<input type="button" value="T"/>	<input type="button" value="L"/>	<input type="button" value="D"/>	id	Name	Email	Message	Done
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	Lola Marshall	Lola@gmail.com	Did you know the word essay is derived from a Lat... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	Chandler Mathews	Chandler@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	Payten Pierce	Payten@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	Fernando Cameron	Chaim@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	Jaslene Odom	Jaslene@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	Colton Dorsey	Colton@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	Eugene Tucker	Eugene@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	Armani Wolfe	Armani@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	Lola Marshall	Lola@gmail.com	Styling an HTML table isn't the most glamorous job... 0	
<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	Chandler Mathews	Chandler@gmail.com	Styling an HTML table isn't the most glamorous job... 0	

Figure 4:Customer Service Table

## C. Web application Interface

### 1. Customer Home:

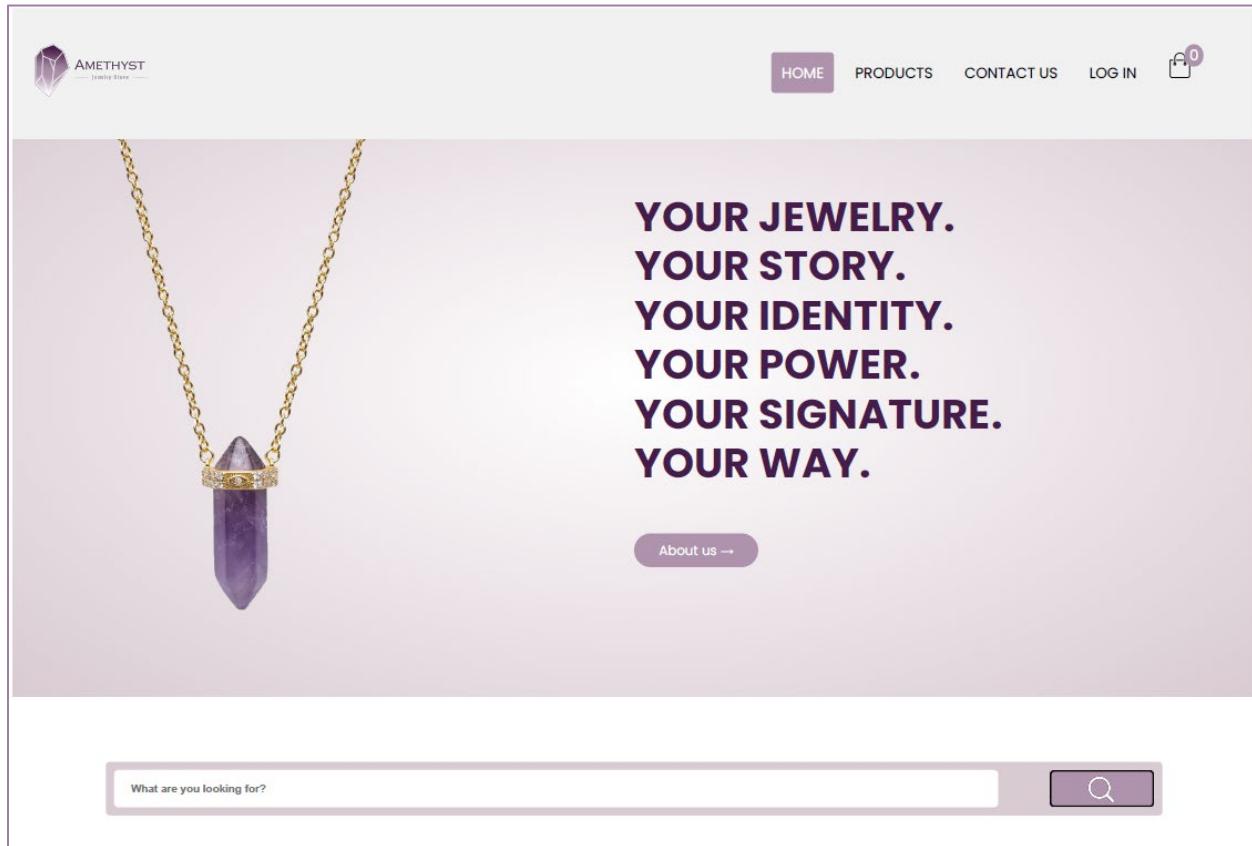


Figure 5: Customer Home cover page

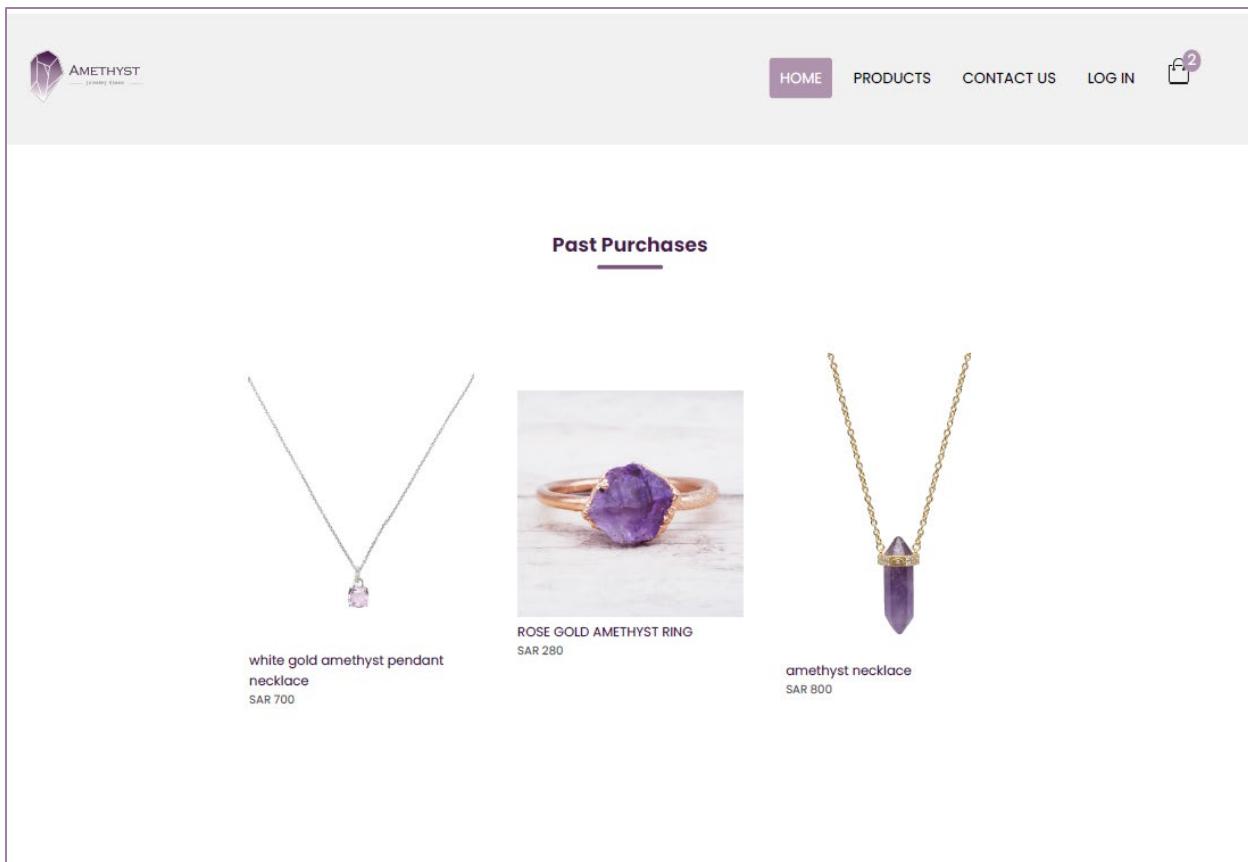


Figure 7: past purchases

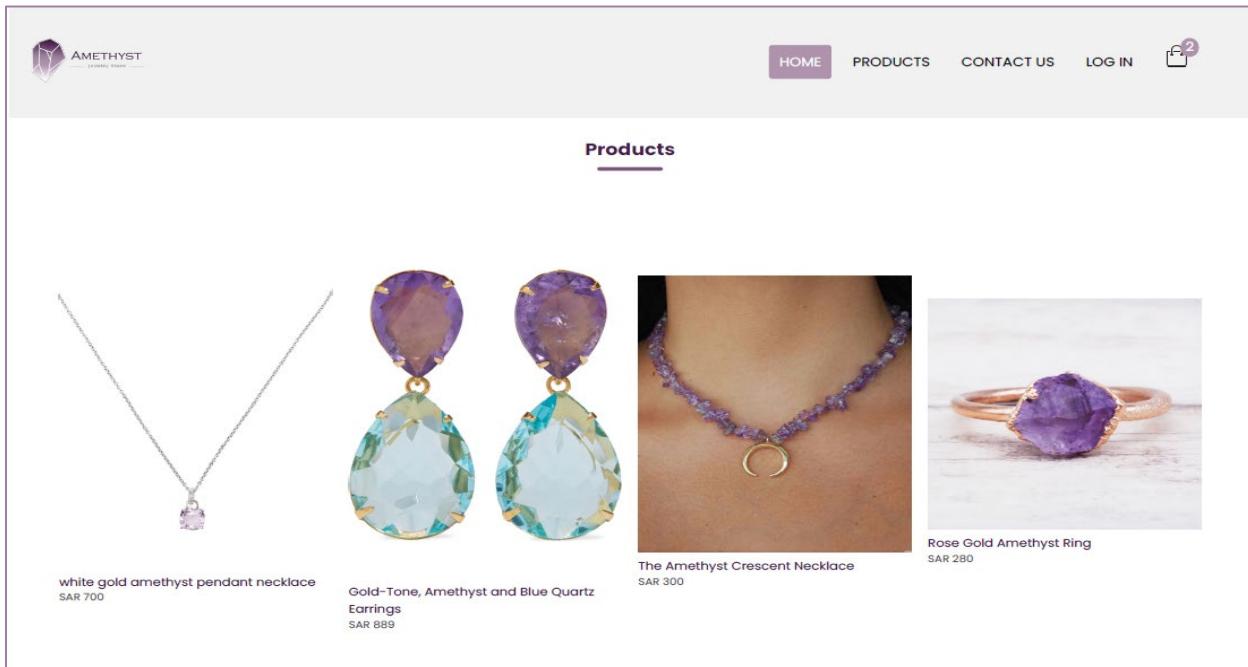


Figure 6: Display Products

## 2. Products Details:

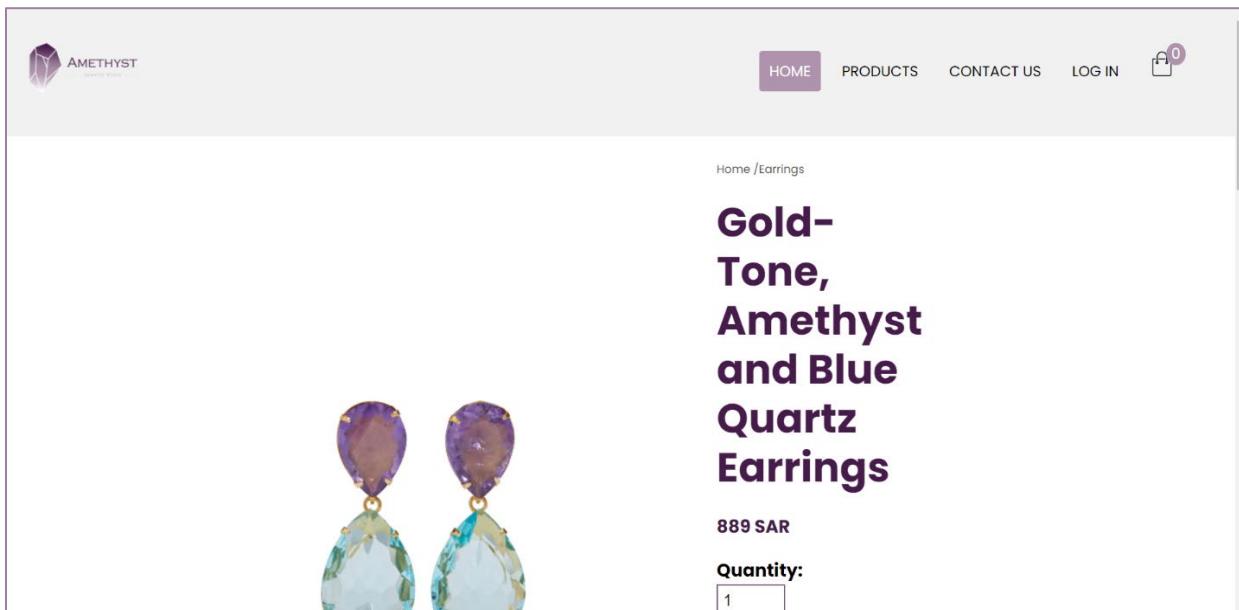


Figure 8: Product Details (1)

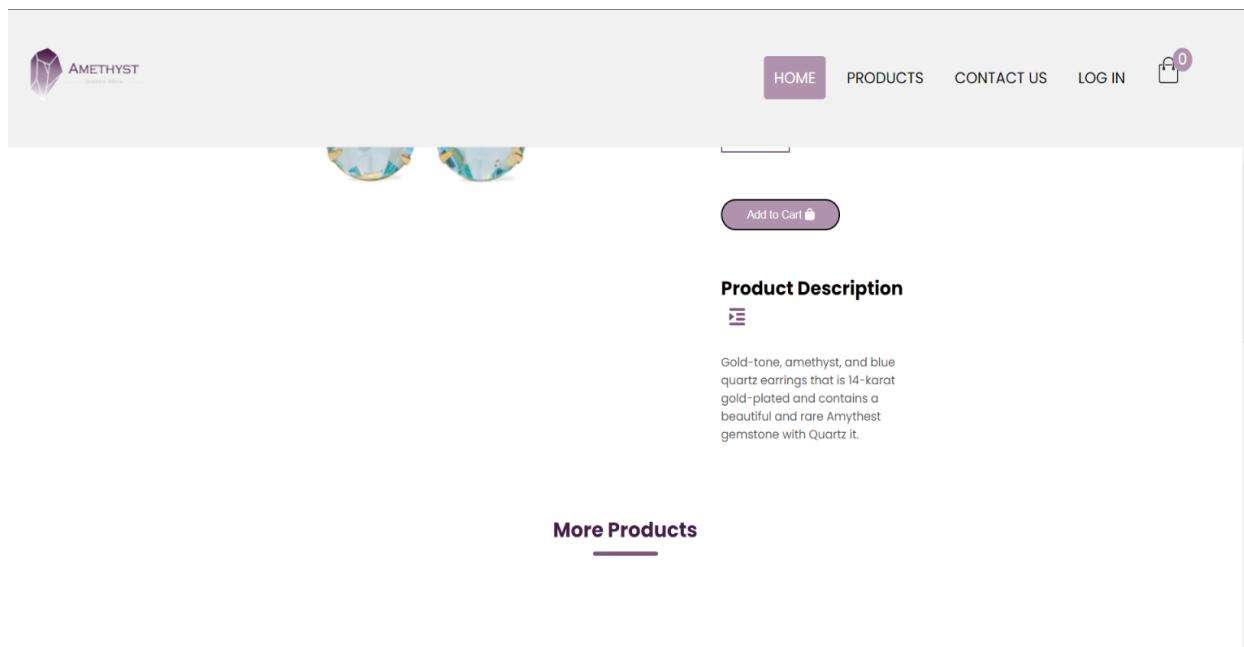


Figure 9: Product Details (2)

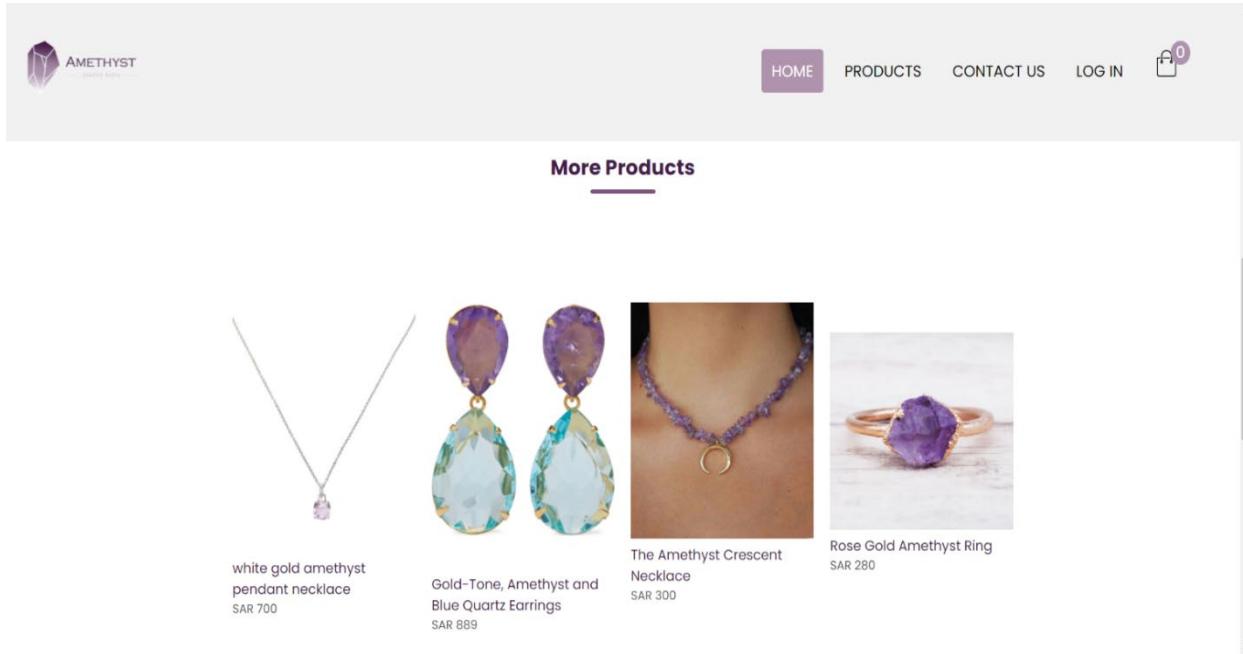


Figure 10: Product Details (3)

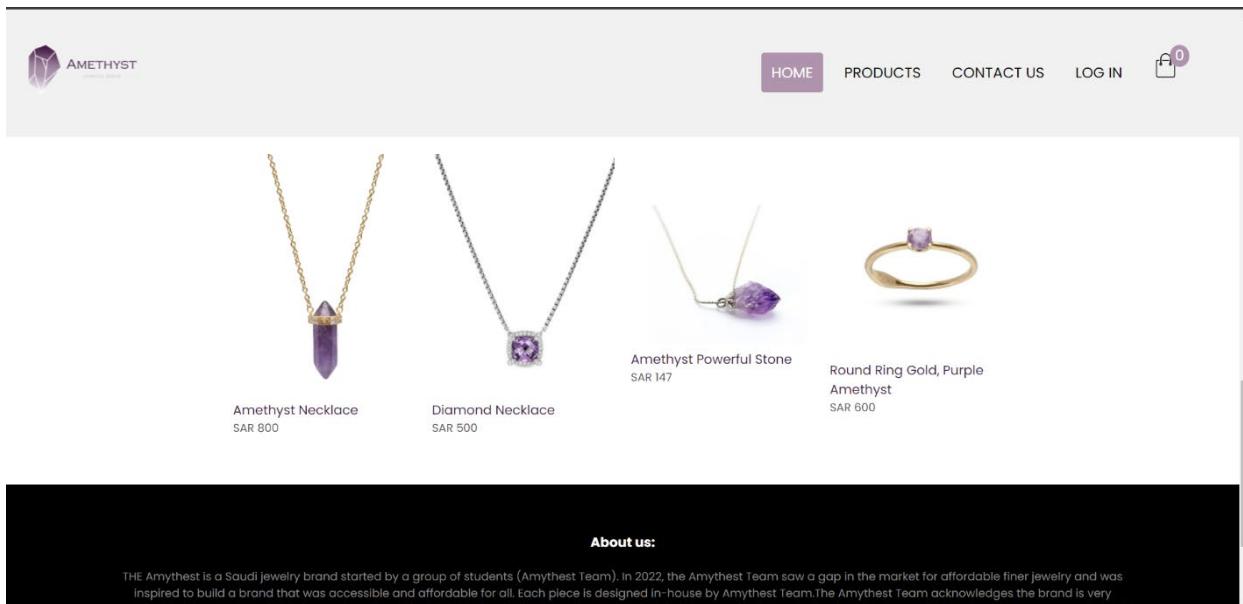


Figure 11: Product Details (4)

### **3. Shopping cart:**

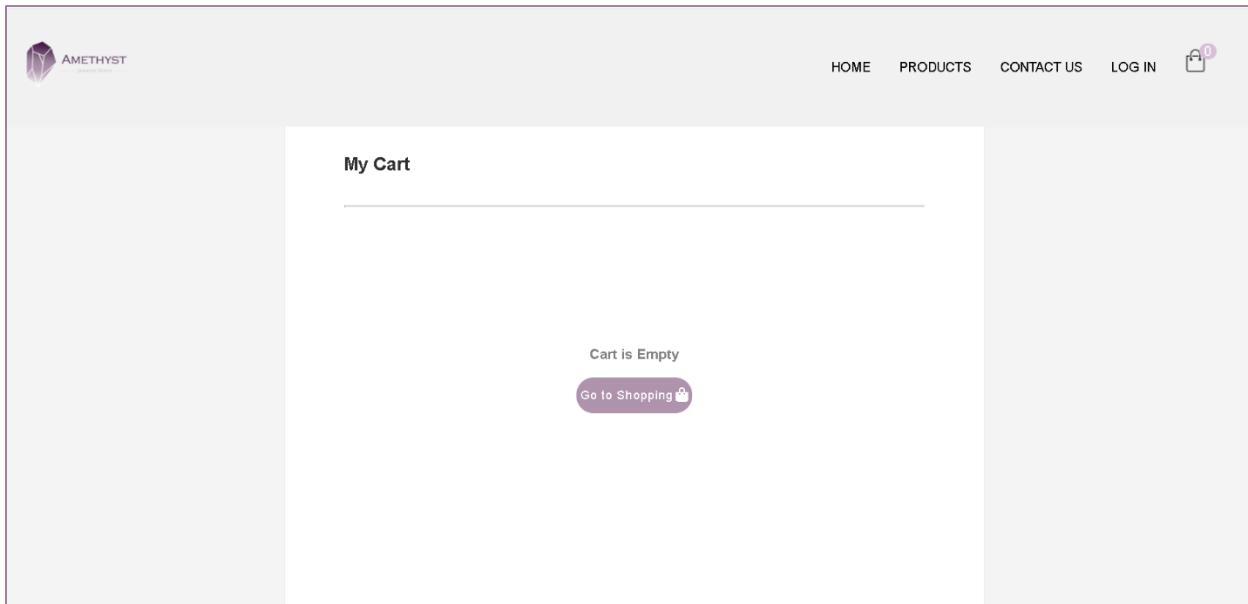


Figure 12: Cart is empty

The screenshot shows a web page titled "My Cart". At the top, there is a navigation bar with links for "HOME", "PRODUCTS", "CONTACT US", "LOG IN", and a shopping cart icon showing "1". Below the navigation bar, the main content area displays a progress bar with three steps: "Cart", "Checkout & Payment", and "Complete Order". The "Cart" step is highlighted with a dark purple dot. Below the progress bar, there is a table showing the contents of the shopping cart:

Products	Quantity	Subtotal
Amethyst Powerful Stone Price: SAR 147 necklace	<input type="text" value="1"/>	SAR 147
<b>Subtotal</b>		SAR 147
<b>Delivery Cost</b>		SAR 10
<b>Total</b>		SAR 157

At the bottom of the cart area, there are two buttons: "Empty shopping cart" and "Checkout".

Figure 13: Shopping Cart

#### 4. Checkout:

The screenshot shows the Amethyst website's checkout process. At the top, there is a navigation bar with links for HOME, PRODUCTS, CONTACT US, LOG IN, and a user icon. Below the navigation, a progress bar indicates the current step is "Checkout & Payment". The main content area is divided into two sections: "Checkout" on the left and "Payment" on the right.

**Checkout** section fields include:

- First Name: [Input field]
- Last Name: [Input field]
- Email: Amethyst@hotmail.com
- Phone Number: 05x XXX XXXX
- City: [Input field]
- Street: [Input field]
- Building Number: [Input field]

**Payment** section fields include:

- Cardholder's Name: [Input field]
- Card Number: [Input field]
- Expires Date: [Input field] mm/yy
- CVV/CVC: [Input field]

Payment method options:

- Pay SAR 310 with visa or MasterCard
- Pay SAR 310 with mada credit card

At the bottom, there are "Back" and "Buy" buttons.

Figure 14: Checkout

## 5. Contact Us:

The screenshot shows the 'Contact Us' page of the Amethyst website. At the top, there is a navigation bar with links for HOME, PRODUCTS, CONTACT US (which is highlighted in purple), LOG IN, and a shopping cart icon showing 0 items. The main title 'Contact Us' is centered above a large, purple-highlighted form area. The form is titled 'Send Message' and contains three input fields: 'Full Name', 'Email', and a larger text area for 'Type your Message ...'. A 'Send' button is located at the bottom right of the form. Below this, there is another navigation bar with the same links as the top one. Further down, there are icons and text for 'Address' (KSA Dhahran), 'Phone' (+966 583925584), and 'Email' (Amethyst@gmail.com). A map is also displayed, showing the location of the company in Saudi Arabia.

AMETHYST

HOME PRODUCTS CONTACT US LOG IN 0

## Contact Us

**Send Message**

Full Name

Email

Type your Message ...

Send

AMETHYST

HOME PRODUCTS CONTACT US LOG IN 0

**Address**  
KSA  
Dhahran

**Phone**  
+966 583925584

**Email**  
Amethyst@gmail.com

View larger map

Advanced Metals Company | AMCO

Hunting Energy Saudi Arabia

Storage Station Fulfillment Center

Gulf M

Petronash Ar

Radisson Hotel & Apartments Dammam

Almarai

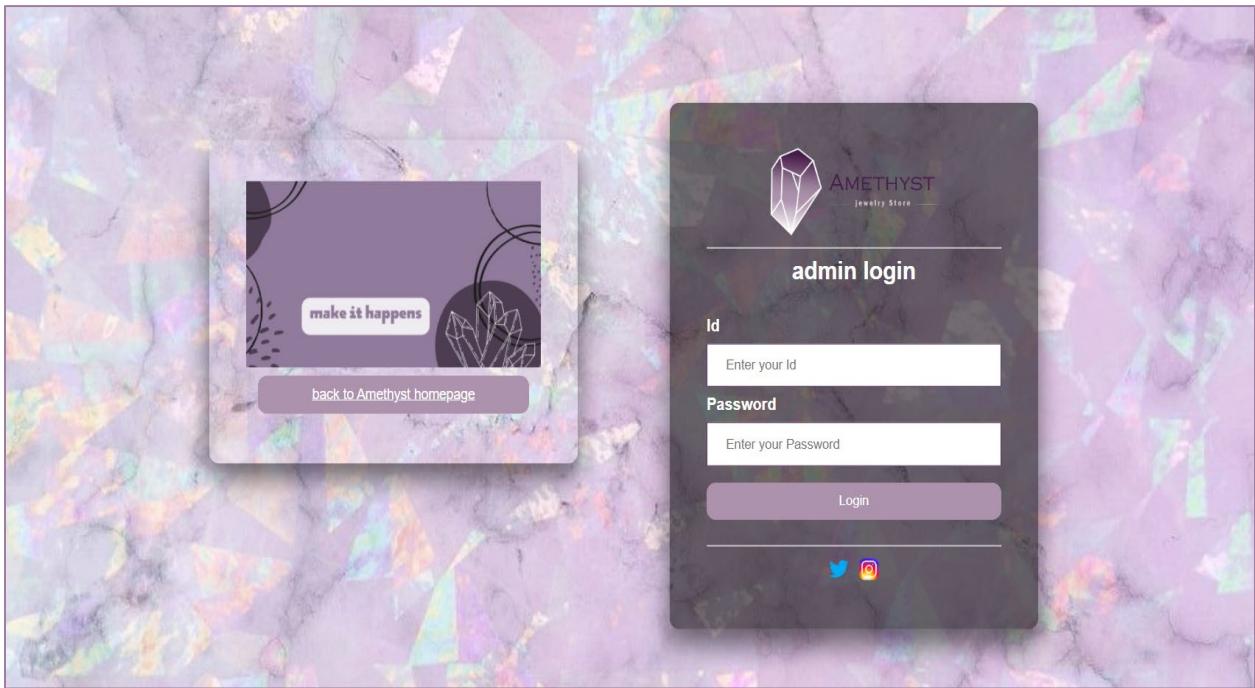
Google

Keyboard shortcuts

Map data ©2022 · Terms of Use

Figure 15: Contact Us

## **6. Admin Login:**



*Figure 16: Admin Login*

## 7. Admin Home:

**Welcome Sahar Alzahrani**

HOME PRODUCTS ADD PRODUCTS CUSTOMER SERVICE LOG OUT

What are you looking for?

**Featured Products**

Diamond Necklace  
500 SAR

Round Ring Gold, Purple Amethyst  
600 SAR

Amethyst Powerful Stone  
147 SAR

The Amethyst Crescent Necklace  
300 SAR

**Welcome Sahar Alzahrani**

HOME PRODUCTS ADD PRODUCTS CUSTOMER SERVICE LOG OUT

**Products**

white gold amethyst pendant necklace  
700 SAR

Gold-Tone, Amethyst and Blue Quartz Earrings  
889 SAR

The Amethyst Crescent Necklace  
300 SAR

Rose Gold Amethyst Ring  
280 SAR

Diamond Necklace

Round Ring Gold, Purple Amethyst

Amethyst Powerful Stone

The Amethyst Crescent Necklace

Figure 17: Admin Home Page

## 8. Add Product:

The screenshot displays two versions of the 'Add Product' page from a web browser.

**Top Screenshot (Initial Form):**

- Header:** Welcome Sahar Alzahrani, AMETHYST, HOME, PRODUCTS, ADD PRODUCTS (highlighted), CUSTOMER SERVICE, LOG OUT.
- Section:** Add a product
- Image Upload:** A placeholder area labeled "product image" with a cloud icon and text "No file chosen, yet!". Below it is a "CHOOSE AN IMAGE" button.
- Product Information:** Fields for Product ID (placeholder: Enter the product ID), Product Name (placeholder: Enter the product name), Product Price (placeholder: Enter the product price), Product Stock (placeholder: Enter the product stock), and Product Type (dropdown menu: Select a type).

**Bottom Screenshot (Partially Completed Form):**

- Header:** Welcome Sahar Alzahrani, AMETHYST, HOME, PRODUCTS, ADD PRODUCTS (highlighted), CUSTOMER SERVICE, LOG OUT.
- Section:** Product Type: (dropdown menu: Select a type)
- Section:** Product Description
- Description:** (Text area placeholder: Enter product description)
- Action:** Add Product (button)

Figure 18: Add Product

## 9. Modify Products:

The screenshot shows a web application for modifying product details. At the top, there's a header with the AMETHYST logo and a welcome message: "Welcome Sahar Alzahrani". Below the header, a title "Modify Product Details" is centered. To the left of the title is a photograph of a purple amethyst crescent necklace worn around a person's neck. On the right side of the title, there are several input fields and dropdown menus:

- Name:** The Amethyst Crescent Necklace
- Price:** 300 SAR
- Stock:** 10
- Product Type:** Necklace
- Product Image:** A placeholder box with "Choose File | No file chosen".

Figure 19: Modify Products (1)

This screenshot shows the same "Modify Product Details" page after changes have been made. The product image field now contains a thumbnail of the necklace. The description field has been updated with the following text:

This necklace is made with healing amethyst stones and one gold-plated crescent charm.

At the bottom of the page, there is a "Confirm Changes" button and a "More Products" link.

Figure 20: Modify Products (2)

 AMETHYST  
GEMS & JEWELS

Welcome Sahar Alzahrani

HOME PRODUCTS ADD PRODUCTS CUSTOMER SERVICE CUSTOMER HOME LOG OUT

**More Products**



white gold amethyst pendant necklace SAR 700

Gold-Tone, Amethyst and Blue Quartz Earrings SAR 889

The Amethyst Crescent Necklace SAR 300

Rose Gold Amethyst Ring SAR 280

Figure 22: Modify Products (3)

 AMETHYST  
GEMS & JEWELS

Welcome Sahar Alzahrani

HOME PRODUCTS ADD PRODUCTS CUSTOMER SERVICE CUSTOMER HOME LOG OUT



white gold amethyst pendant necklace SAR 700

Gold-Tone, Amethyst and Blue Quartz Earrings SAR 889

The Amethyst Crescent Necklace SAR 300

Rose Gold Amethyst Ring SAR 280

Amethyst Necklace SAR 800

Diamond Necklace SAR 500

Amethyst Powerful Stone SAR 147

Round Ring Gold, Purple Amethyst SAR 600

Figure 21: Modify Products (4)

## 10. Customer Service:

The screenshot shows a customer service interface for 'AMETHYST'. At the top, there's a logo and the text 'Welcome Sahar Alzahrani'. A navigation bar includes links for HOME, PRODUCTS, ADD PRODUCTS, CUSTOMER SERVICE, and LOG OUT. Below this, there are two sections: 'Customer Messages (Need to Respond)' and 'Customer Messages (Done)'.  
  
**Customer Messages (Need to Respond)**  
A table with columns: Done?, Name, Email, and Message. It lists 9 messages, all of which have the 'Done?' checkbox unchecked.

Done?	Name	Email	Message
<input type="checkbox"/>	Chandler Matthews	Chandler@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Payten Pierce	Payten@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Fernando Cameron	Chain@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Jaslene Odom	Jaslene@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Colton Dorsey	Colton@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Eugene Tucker	Eugene@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Armani Wolfe	Armani@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Lola Marshall	Lola@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Chandler Matthews	Chandler@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.

  
**Customer Messages (Done)**  
A table with columns: Done?, Name, Email, and Message. It lists 1 message, which has the 'Done?' checkbox checked.

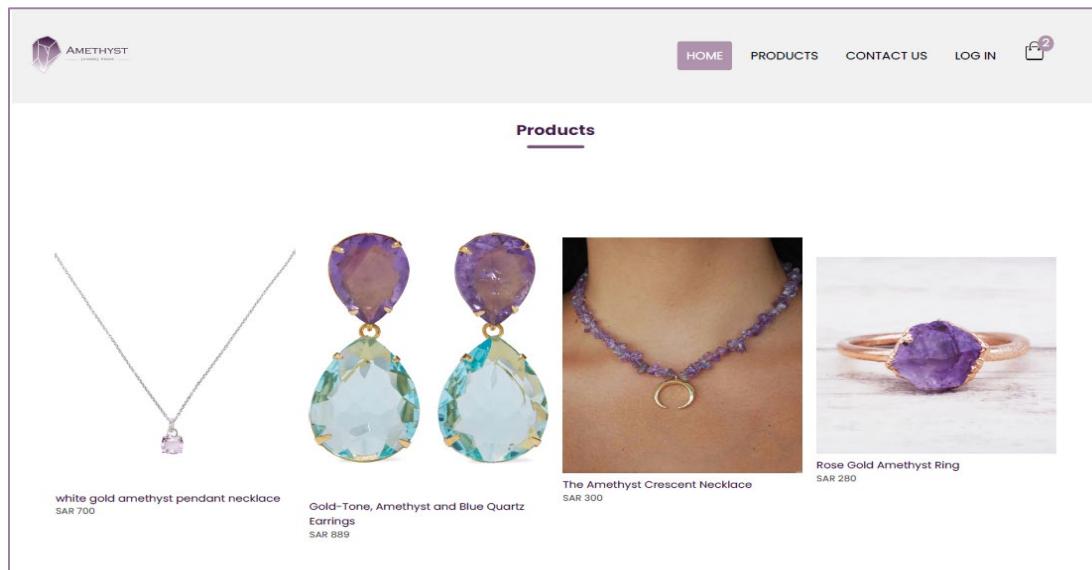
Done?	Name	Email	Message
<input checked="" type="checkbox"/>	Lola Marshall	Lola@gmail.com	Did you know the word essay is derived from a Latin word exagium, which roughly translates to presenting ones case? So essays are a short piece of writing representing ones side of the argument or ones experiences, stories, etc. Essays are very personalized. So let us learn about types of essays, format, and tips for essay-writing.

Figure 23: Customer Home interface

## D. Fulfilled requirements.

### 1. Display Products.

Product will be display from data base using PHP and HTML code by using getData function which will be retrieve data from data base.



## **2. Display Product Details & Add to Cart:**

The product details of the selected product details from the customer homepage would be shown to the user on the product details page using the product's ID. On this page the customer will be able to input the required quantity in an input box and add the items to the shopping cart by clicking an **add to shopping cart** button which displays “Add to Cart” with a cart logo.

The screenshot shows two views of a product detail page for "Gold-Tone, Amethyst and Blue Quartz Earrings".

**Top View:** The top half shows the product image (two teardrop-shaped earrings with purple amethyst and blue quartz stones), the product title "Gold-Tone, Amethyst and Blue Quartz Earrings", the price "889 SAR", and a quantity input field set to "1". The "Add to Cart" button is visible at the bottom right of this section.

**Bottom View:** The bottom half shows a larger image of the earrings, the "Product Description" section with a summary of the item's features, and the "Add to Cart" button again at the bottom right.

The website header includes a logo, navigation links for HOME, PRODUCTS, CONTACT US, and LOG IN, and a shopping cart icon with a "0" notification.

*Figure 24: Display Product Details Requirement*

### **3. Checkout**

All customer pages have a shopping cart image with quantity on it and can be reached. When clicking on the shopping cart image it will redirect the customer to the shopping Cart and Checkout page.

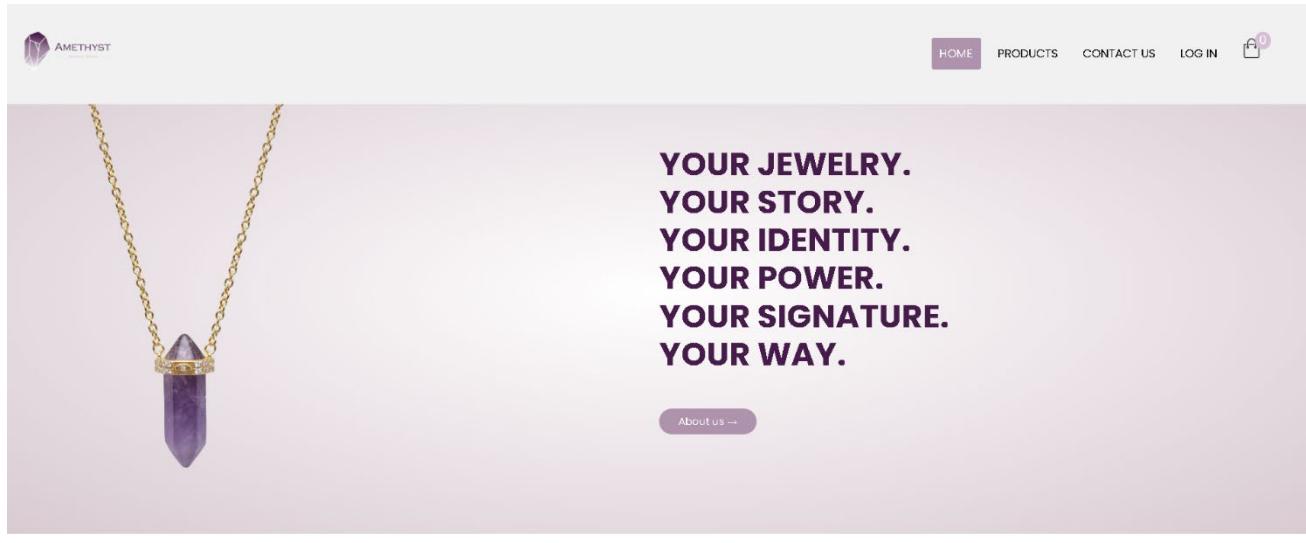


Figure 25:home page with shopping cart image

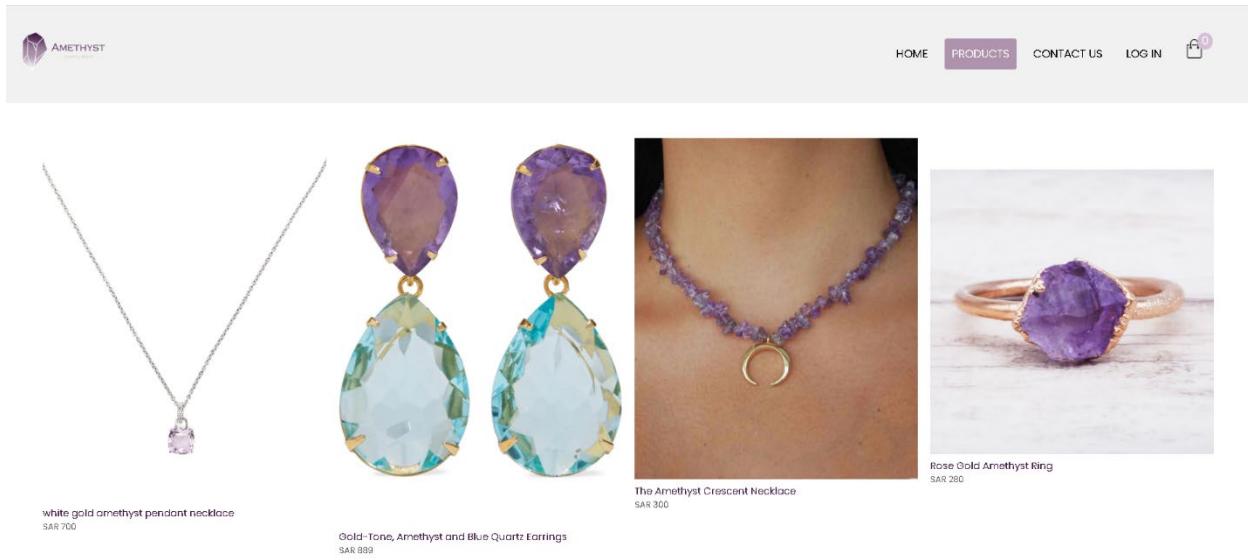


Figure 26:Products with shopping cart image

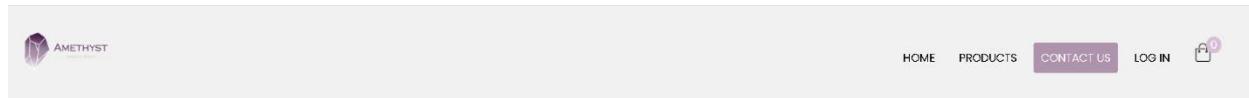


Figure 27: Contact us with shopping cart image

On Cart section the customer can delete single product, modify quantity of product and empty the cart. Also, can buy all products on the cart by click on Checkout button will move to checkout section to make order.

A screenshot of the Amethyst website's My Cart section. The title "My Cart" is at the top. Below it is a progress bar with three steps: "Cart" (purple dot), "Checkout & Payment" (light gray dot), and "Complete Order" (light gray dot). A table below shows the cart contents. The table has columns for Products, Quantity, and Subtotal. It lists one item: "The Amethyst Crescent Necklace" with a price of SAR 300. The quantity is set to 1. There are also summary rows for Subtotal (SAR 300), Delivery Cost (SAR 10), and Total (SAR 310). At the bottom, there are buttons for "Empty shopping cart" and "Checkout ⚡".

Products	Quantity	Subtotal
The Amethyst Crescent Necklace Price: SAR 300 necklace	1	SAR 300
Subtotal		SAR 300
Delivery Cost		SAR 10
Total		SAR 310

Figure 28: shopping cart section

#### 4. Buy

When customer clicks on Buy button and get feedback of form validation of entries .And these feedbacks are accepted to make order they will redirect customer to Complete Order page to confirm that order has been placed, and updated database has been made. Then the shopping cart will be empty (end the session).

P_id	name	picture	category	price	stock
666	Round Ring Gold, Purple Amethyst	images/RoundRing.jpg	Ring	600	11

Figure 31: database product stock before make order

Products	Quantitiy	Subtotal
 Round Ring Gold, Purple Amethyst Price: SAR 600 Ring	<input type="text" value="2"/>	SAR 1200
	Subtotal	SAR 1200
	Delivery Cost	SAR 10
	Total	SAR 1210

Figure 30:Quantity in the cart of the product

Figure 29:all entries are valid to make order

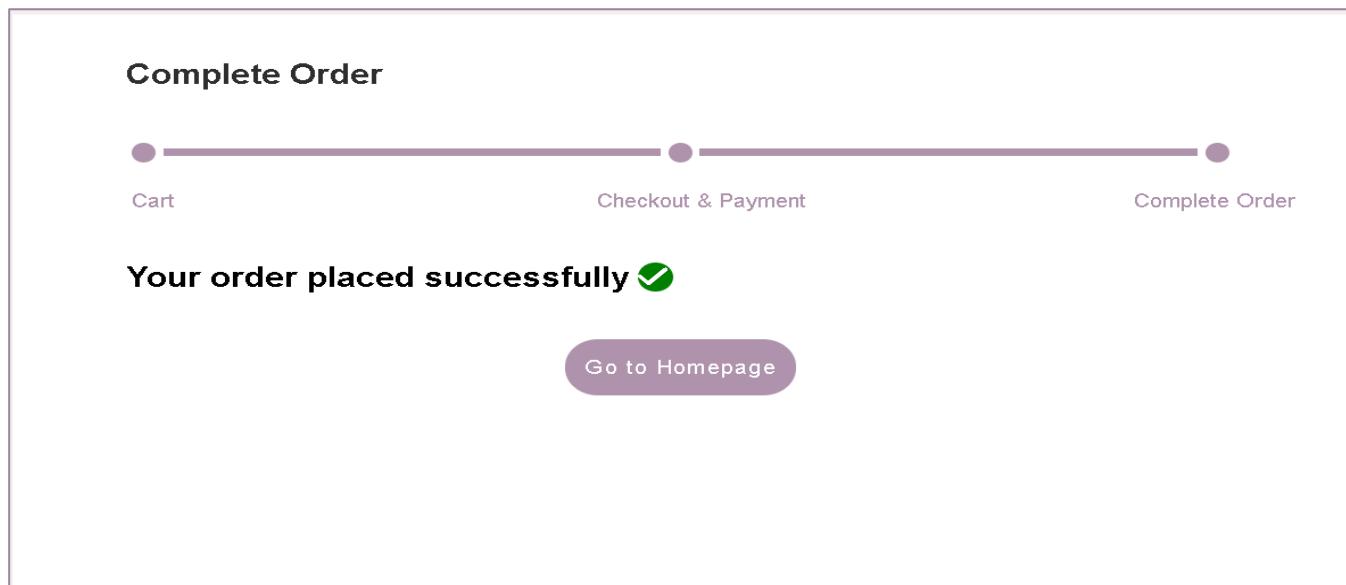


Figure 34: confirm the order has placed successfully

P_id	name	picture	category	price	stock
666	Round Ring Gold, Purple Amethyst	images/RoundRing.jpg	Ring	600	9

Figure 33: database product stock after make order

The screenshot shows a navigation bar with links for HOME, PRODUCTS, CONTACT US, LOG IN, and a shopping cart icon with a notification count of 1. The main content area is titled "My Cart" and displays a message "Cart is Empty". A purple button labeled "Go to Shopping" with a camera icon is centered below the message.

Figure 32: Cart is empty

## **5. Authenticate Managers**

When the admin enters id and password fields and clicks on the “Login” button, the id and password will be checked with data admins data in the data base. if there is match the admin is found, he will be Authenticated and transferred to “Admin Home” page. If not, an error message “username or password is incorrect” will appear.

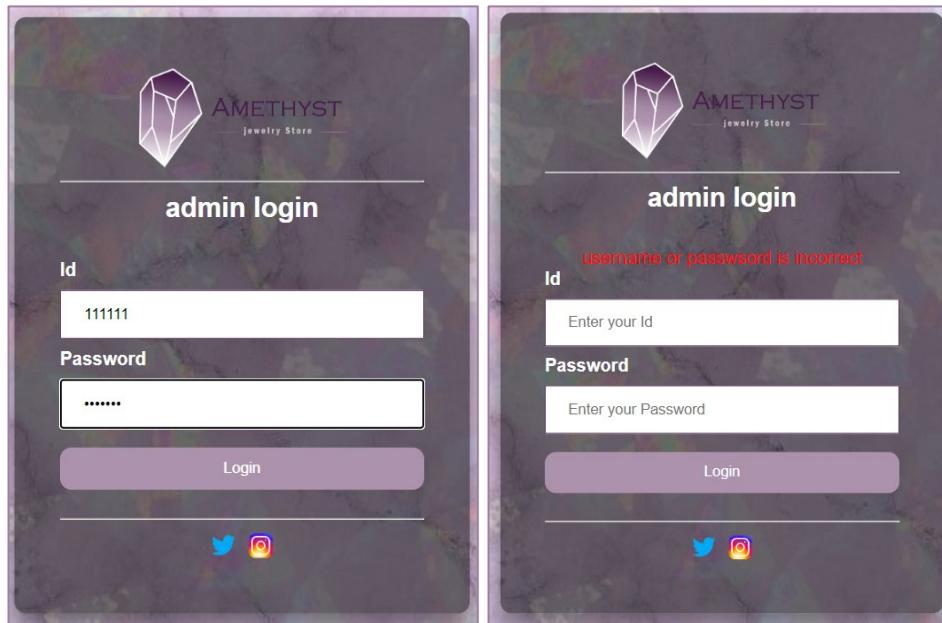


Figure 36 incorrect id and password

The image contains two side-by-side screenshots of a web application interface. The left screenshot shows the 'admin login' page with a purple gem icon and 'AMETHYST Jewelry Store' header. The 'Id' field contains '12477845' and the 'Password' field contains '\*\*\*\*\*'. A purple 'Login' button is at the bottom. The right screenshot shows the 'Admin Home' page with a header 'Welcome Sahar Alzahrani' and navigation links for 'HOME', 'PRODUCTS', 'ADD PRODUCTS', 'CUSTOMER SERVICE', and 'LOG OUT'. It features a search bar and a 'Featured Products' section. The products listed are: 'Diamond Necklace' (500 SAR), 'Round Ring Gold Purple Amethyst' (800 SAR), 'Amethyst Powerful Stone' (147 SAR), and 'The Amethyst Crescent Necklace' (300 SAR). Each product has a small image and its price below it.

Figure 35 correct id or password

## 6. Add New Product

After the authenticated admin clicks on the “Add Product” button in the header they will be led to the add product page. The add product page shows a form that allows the admin to enter information about the new product and will validate the information. If the ID is not 3 digits or if the name contains a number an error messages will appear. Also, all the fields have to be filled or a message will show asking to fill the empty fields. If the requirements are met the product will be added to the database.

The screenshot displays the 'Add a product' form on a web browser. The top navigation bar includes links for HOME, PRODUCTS, ADD PRODUCTS (which is highlighted in purple), CUSTOMER SERVICE, and LOG OUT. The main content area is titled 'Add a product'.

**Product Information:**

- Product ID:** [Input field] Enter the product ID
- Product Name:** [Input field] Enter the product name
- Product Price:** [Input field] Enter the product price
- Product Stock:** [Input field] Enter the product stock
- Product Type:** [Select dropdown] Select a type

**Product Description:**

**Description:** [Text area] Enter product description

**Add Product** [Large purple button at the bottom]

Figure 37: Add New Product Requirement

## **7. Search for a Product (Both in Customer and Admin Home):**

when the customer clicks on search button without typing anything, this message will appear "please enter a name to search and retry "



A screenshot of a search interface. It features a light gray input field with a thin black border and rounded corners. Inside the field, the placeholder text "What are you looking for?" is centered in a small, dark gray font. To the right of the input field is a dark purple rectangular button with a white magnifying glass icon in the center.

**Please enter a name to search and retry**

*Figure 38: Search without typing (Entry)*

when the customer search about products that doesn't exist, this message will be appear "Sorry, no products found with the name: ".



A screenshot of a search interface. It features a light gray input field with a thin black border and rounded corners. Inside the field, the placeholder text "What are you looking for?" is centered in a small, dark gray font. To the right of the input field is a dark purple rectangular button with a white magnifying glass icon in the center.

**Sorry, no products found with the name "necklak"**

*Figure 39 search for product not found*

when the customer search for only one letter, all products name that contains that letter will be appear. For example, when customer search for "g", all products name that contains "g" will be appear.

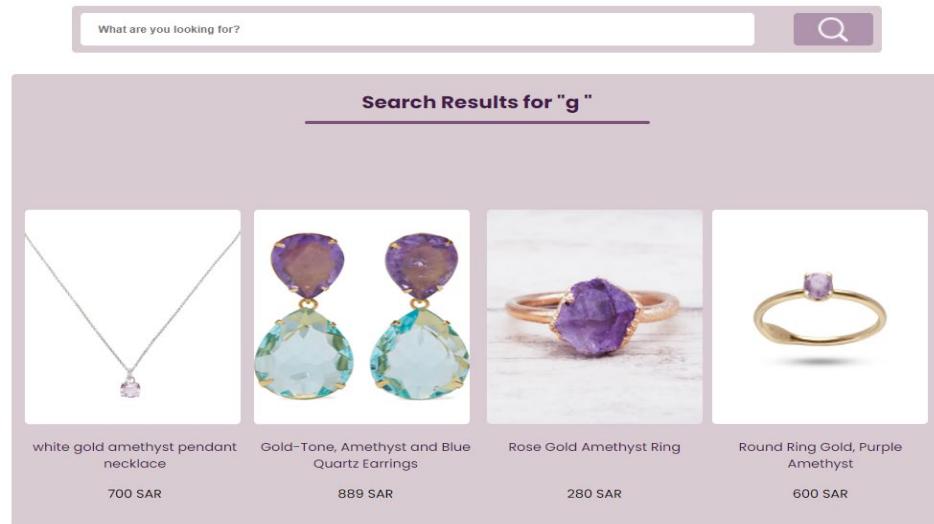


Figure 40: Search for A Letter

When the customer search for specific products name that product will be appear.

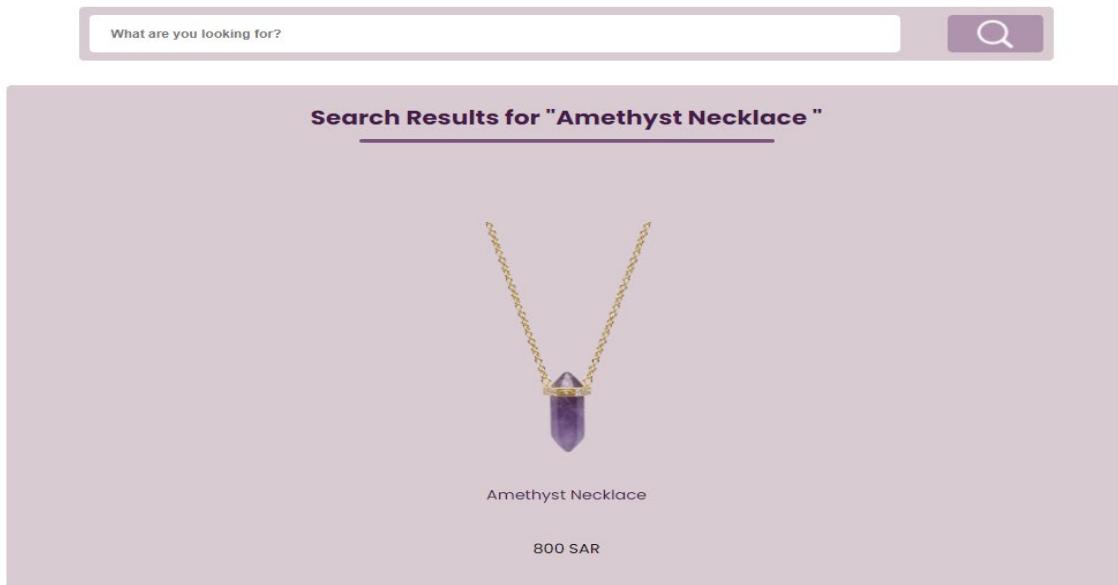
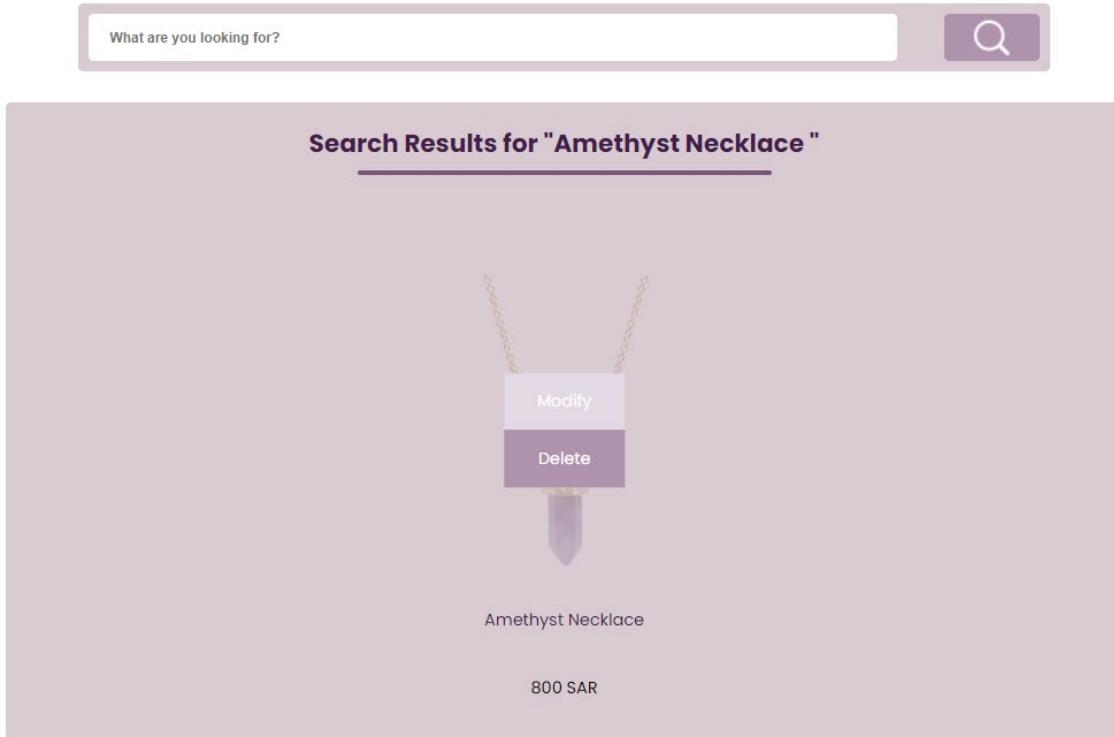


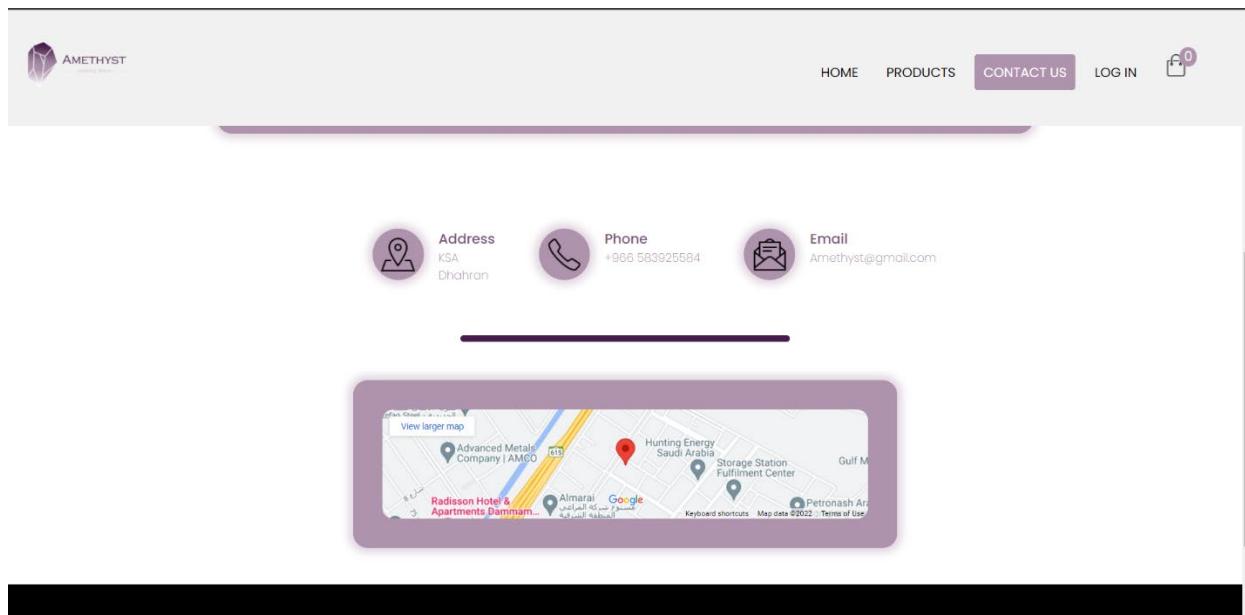
Figure 41: Search For Specific Products Name

**8. Search for a product to modify or delete (On Admin Home Page):**



*Figure 42: Search Modify and Delete*

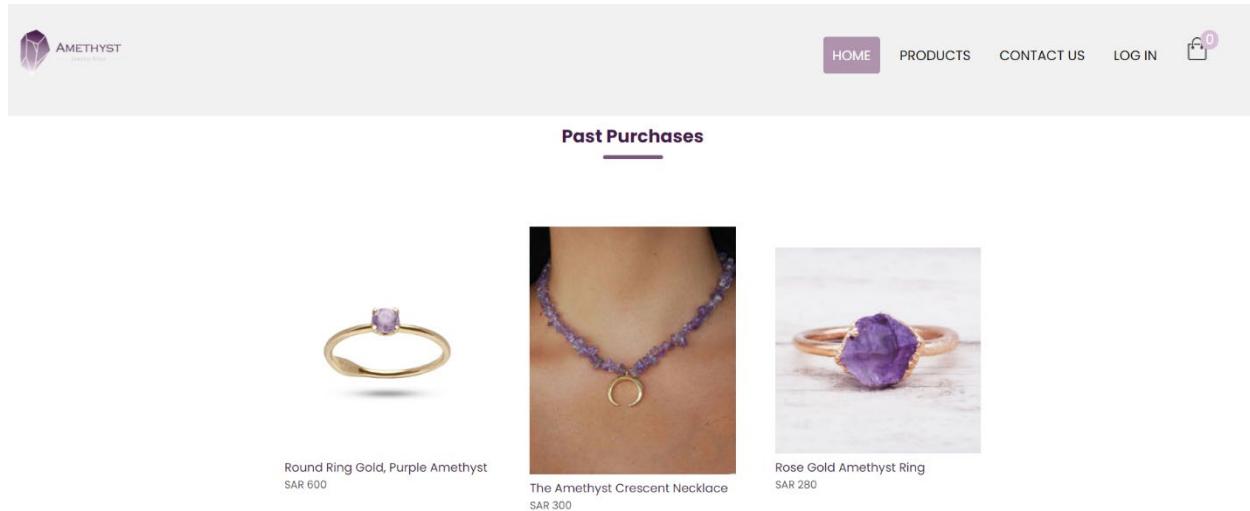
## **9. Display address and location map**



*Figure 43: Display address and location map*

## **10. Past purchases**

The customers will be able to see their past purchases on the home page. we used Cookies to achieve this functionality.



*Figure 44: Past purchases*

## 11.Forms Validation

The Form Validation was used in these interfaces: admin login, contact us, add product, modify product, product details, cart, and checkout. we used JavaScript to achieve this functionality.

The following figure shows some examples for form validation, and the complete explanation is shown under each interface name in the testing cases section.

The figure displays three examples of form validation:

- admin login:** A dark-themed login interface for 'AMETHYST Jewelry Store'. It features fields for 'Id' and 'Password', both of which have red validation messages: 'please enter your id and password' and 'Email Invalid' respectively. A 'Login' button is present at the bottom.
- Product Information:** A form for adding a new product. It includes fields for 'Product ID' (containing '1234' with the error '\*ID must contain 3 characters'), 'Product Name' ('The Amethyst Crescent Necklacell' with the error '\* name cannot include a number'), 'Product Price' (empty with the placeholder 'Enter the product price'), 'Product Stock' (empty with the placeholder 'Enter the product stock'), and 'Product Type' (a dropdown menu with the placeholder 'Select a type').
- Send Message:** A form for sending a message. It has fields for 'Name' ('wadha mohammed' with 'Valid' feedback), 'Email' (empty with 'Email Invalid' feedback), and a message body ('Type your Message ...'). A 'send' button is located at the bottom right, accompanied by the error message 'Please fix errors to submit.'

Figure 45 examples of Forms Validation

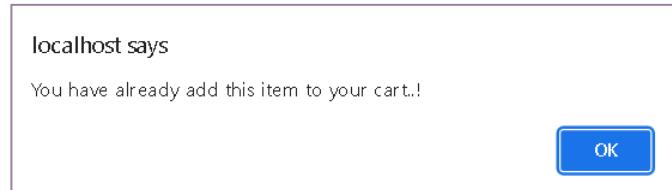
## **12.Help Window**

Include a pop-up help window in the product details page suitable to your project. Which were two pop-up windows, one for confirming that the product has been added to the cart which states “The Product Has Been Added to the Cart...!”.



*Figure 46: Pop Up Message for Product Details Page (1)*

And the other help window is a pop-up message stating that the product is already within the cart which says, “You have already added this item to your cart...!”.



*Figure 47: Pop Up Message for Product Details Page (2)*

### **13. Accessibility:**

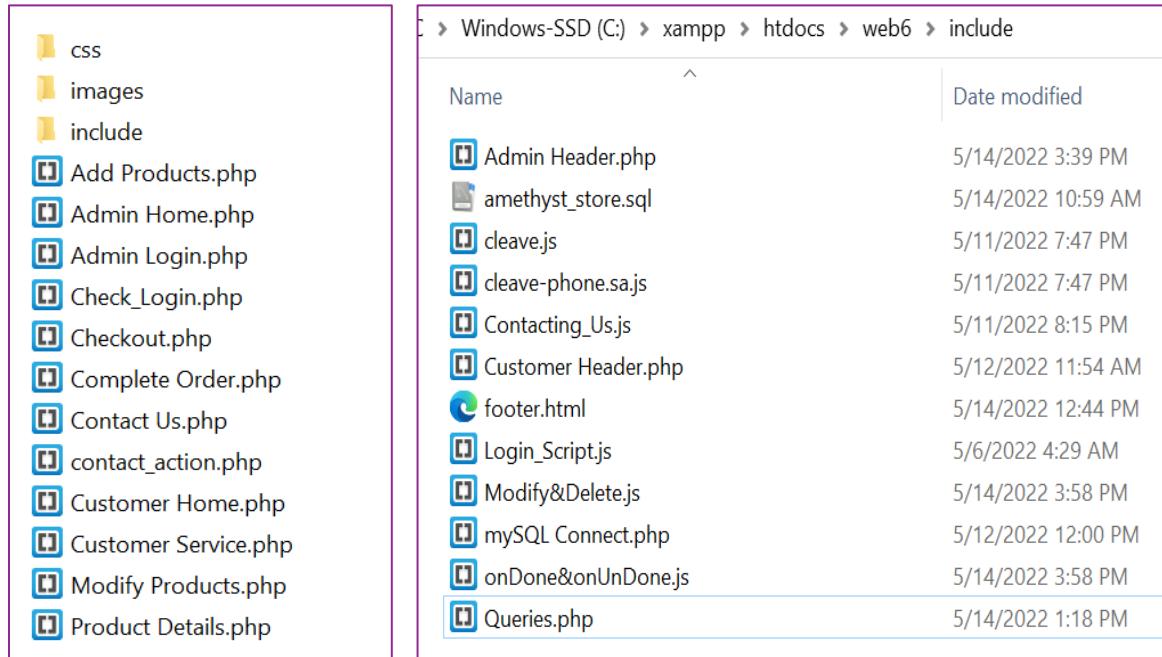
we used alt attribute in images and summary for tables to make it accessible by disabled users.



*Figure 48 accessibility for image name to disabled*

## **14. Efficiency:**

We made sure that writing the code was efficient, as we added a file for photos and a file for CSS files. Also, include file containing the header, footer, javascript files, and Queries.php contains all functions that we have used in this project



The screenshot shows a Windows File Explorer window with the following details:

Path: C:\Windows-SSD (C:) \xampp \htdocs \web6 \include

Name	Date modified
Admin Header.php	5/14/2022 3:39 PM
amethyst_store.sql	5/14/2022 10:59 AM
cleave.js	5/11/2022 7:47 PM
cleave-phone.sa.js	5/11/2022 7:47 PM
Contacting_Us.js	5/11/2022 8:15 PM
Customer Header.php	5/12/2022 11:54 AM
footer.html	5/14/2022 12:44 PM
Login_Script.js	5/6/2022 4:29 AM
Modify&Delete.js	5/14/2022 3:58 PM
mySQL Connect.php	5/12/2022 12:00 PM
onDone&onUnDone.js	5/14/2022 3:58 PM
Queries.php	5/14/2022 1:18 PM

On the left, there is a sidebar with icons for CSS, images, and include, followed by a list of PHP files:

- css
- images
- include
- Add Products.php
- Admin Home.php
- Admin Login.php
- Check\_Login.php
- Checkout.php
- Complete Order.php
- Contact Us.php
- contact\_action.php
- Customer Home.php
- Customer Service.php
- Modify Products.php
- Product Details.php

Figure 49 efficiency by using files

## E. Testing cases

### 1. Admin Login:

When the admin clicks on the “LOG IN” button on the “Customer Home” page, he will be taken to the “Admin Login” page.

When admin clicks on the “back to Amethyst homepage” button on the “Admin Login” page he will be taken to the “Customer Home” page.

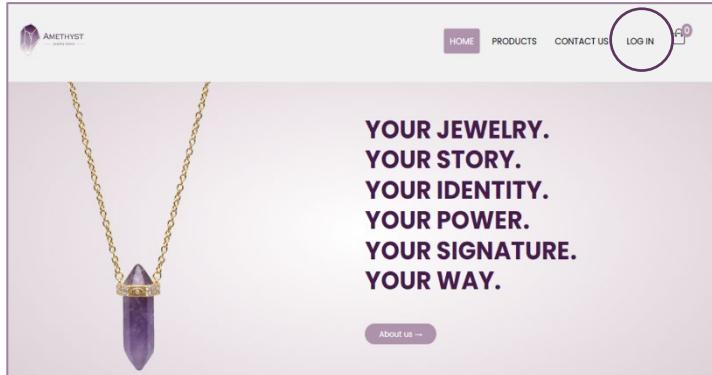


Figure 51 entering "Admin Login" page

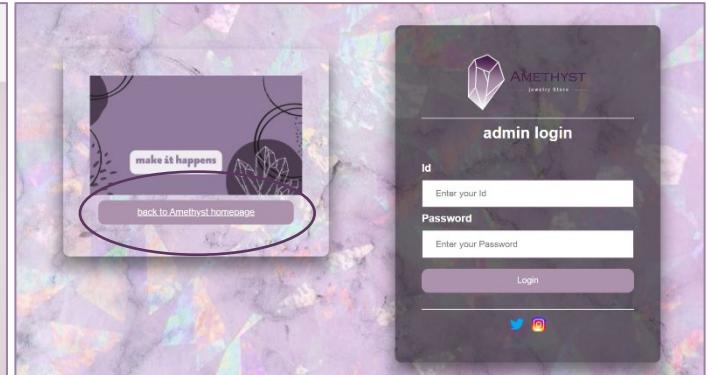


Figure 51 back to "Customer Home" page

When admin clicks on the “Login” button and all or one the fields are left empty, an error message will appear to the admin as shown below:

Id  
Enter your Id

Password  
Enter your Password

Login

Id  
12477845

Password  
Enter your Password

Login

Id  
Enter your Id

Password  
.....

Login

Figure 52 empty fields error messages in "Admin Login" page

When the admin enters id and password fields and clicks on the “Login” button, his entry will be checked. If the admin is found in the Database, he will be Authenticated, and “Admin Home” page will open. If not, an error message will appear.

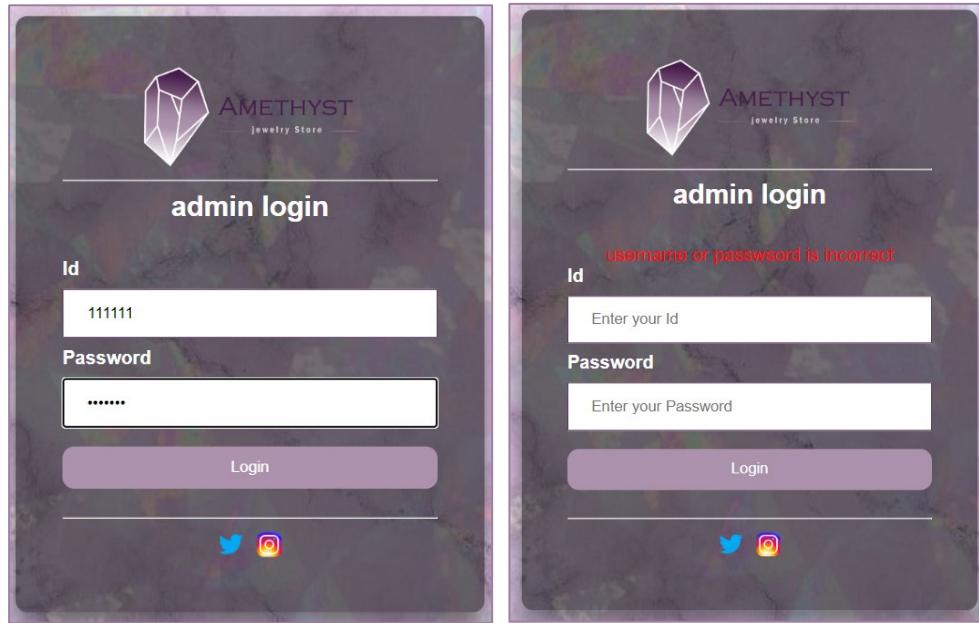


Figure 54 incorrect id or password

Figure 53: correct id and password

## **2. Admin Home Interface (Modify and Delete):**

Admin Home interface is the first interface that opens when the admin logs in successfully.

It has 3 main sections: Search, Featured Products (only 4 sorted by most stock) and All products.

The screenshot shows the Admin Home interface with the 'Featured Products' section. The top navigation bar includes a logo, 'HOME', 'PRODUCTS', 'ADD PRODUCTS', 'CUSTOMER SERVICE', and 'LOGOUT'. Below the navigation is a heading 'Featured Products' with four product items:

Product Image	Name	Price
	white gold amethyst pendant SAR 700	
	ROSE GOLD AMETHYST RING SAR 280	
	amethyst necklace SAR 800	
	Diamond Necklace SAR 500	

Figure 55: Admin Home - Featured Products

The screenshot shows the Admin Home interface with the 'Products' section. The top navigation bar includes a logo, 'HOME', 'PRODUCTS', 'ADD PRODUCTS', 'CUSTOMER SERVICE', and 'LOGOUT'. Below the navigation is a heading 'Products' with four product items. A callout box with 'Modify' and 'Delete' buttons points to the first product, a white gold amethyst pendant necklace.

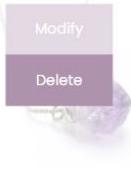
Product Image	Name	Price
	white gold amethyst pendant necklace SAR 700	
	DIAMOND EARRINGS SAR 3,113	
	Gold-tone, amethyst and blue quartz earrings SAR 889	
	The Amethyst Crescent Necklace SAR 300	

Figure 56: Admin Home - Products

From this page the admin can delete a product by hovering on the wanted product then clicking on delete. After that a confirmation pop up will show up, the product will be deleted only when clicks on ok.

### Featured Products

---



Modify
Delete

Amethyst Powerful Stone

147 SAR



Rose Gold Amethyst Ring

280 SAR



Amethyst Necklace

800 SAR



white gold amethyst pendant necklace

700 SAR

localhost says

Are you sure you want to Modify this product?

OK
Cancel

### Modify Product Details

**Name:**

**Price:**  SAR

**Stock:**

**Product Type:**

**Product Image:**  No file chosen

**Description:**



Rose Gold Amethyst



*Figure 58: Admin Home - Modify*

*Figure 57: Admin Home - Delete*

Same method is done for modifying a product except that when clicking on modify product it will redirect admin to Modify Product Page.

### **3. Customer Service Interface:**

This interface is where the admin will reply to clients who submitted from “Contact Us” interface from the client side.

If there were no messages from clients, then this message will show “No Messages To Reply To & No Replies”



*Figure 59: Customer Service - no messages*

If there were messages from clients then the admin has to reply to them by clicking on their email and reply to them by email (The default email application will open), after that click on “Done” checkbox next to the client’s name.

**Welcome Sahar Alzahrani**

**Customer Messages (Need to Respond)**

Done?	Name	Email	Message
<input type="checkbox"/>	Lola Marshall	Lola@gmail.com	Did you know the word essay is derived from a Latin word exagium, which roughly translates to presenting ones case? So essays are a short piece of writing representing ones side of the argument or ones experiences, stories, etc. Essays are very personalized. So let us learn about types of essays, format, and tips for essay-writing.
<input type="checkbox"/>	Chandler Mathews	Chandler@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Payten Pierce	Payten@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Fernando Cameron	Chairim@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Jaslene Odorn	Jaslene@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Colton Dorsey	Colton@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Eugene Tucker	Eugene@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Armani Wolfe	Armani@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Lola Marshall	Lola@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.

**You Haven't Replied To Any Messages**

**Welcome Sahar Alzahrani**

**Customer Messages (Need to Respond)**

Done?	Name	Email	Message
<input type="checkbox"/>	Lola Marshall	Lola@gmail.com	Did you know the word essay is derived from a Latin word exagium, which roughly translates to presenting ones case? So essays are a short piece of writing representing ones side of the argument or ones experiences, stories, etc. Essays are very personalized. So let us learn about types of essays, format, and tips for essay-writing.
<input type="checkbox"/>	Chandler Mathews	Chandler@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
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<input type="checkbox"/>	Chairim@gmail.com	Chairim@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Jaslene@gmail.com	Jaslene@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Colton@gmail.com	Colton@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Eugene@gmail.com	Eugene@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Armani@gmail.com	Armani@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
<input type="checkbox"/>	Lola@gmail.com	Lola@gmail.com	Styling an HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.

localhost says  
Are you sure you want to Done this message?  
**OK**   **Cancel**

**Welcome Sahar Alzahrani**

**Customer Messages (Done)**

Done?	Name	Email	Message
<input checked="" type="checkbox"/>	Lola Marshall	Lola@gmail.com	Did you know the word essay is derived from a Latin word exagium, which roughly translates to presenting ones case? So essays are a short piece of writing representing ones side of the argument or ones experiences, stories, etc. Essays are very personalized. So let us learn about types of essays, format, and tips for essay-writing.

Figure 60: Customer Service - Reply

if the admin replies to all messages, then this is what the interface will look like:

The screenshot shows a web application interface for customer service. At the top, there is a header with the Amethyst logo, a welcome message "Welcome Sahar Alzahrani", and navigation links for "HOME", "PRODUCTS", "ADD PRODUCTS", "CUSTOMER SERVICE", and "LOG OUT". Below the header, a purple banner displays the text "No Messages To Reply To". Underneath this, a section titled "Customer Messages (Done)" contains a table with the following data:

Done?	Name	Email	Message
<input checked="" type="checkbox"/>	Lola Marshall	Lola@gmail.com	Did you know the word essay is derived from a Latin word exiguum, which roughly translates to presenting ones case? So essays are a short piece of writing representing ones side of the argument or ones experiences, stories, etc. Essays are very personalized. So let us learn about types of essays, format, and tips for essay-writing.
<input checked="" type="checkbox"/>	Chandler Mathews	Chandler@gmail.com	Styling on HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.
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<input checked="" type="checkbox"/>	Lola Marshall	Lola@gmail.com	Styling on HTML table isn't the most glamorous job in the world, but sometimes we all have to do it. This article provides a guide to making HTML tables look good, with some specific table styling techniques highlighted.

Figure 61: Customer Service - Done Replying

#### **4. Contact Us:**

When admin clicks on the “Send” button and all or one the fields are left empty, an error message will appear to the customer as shown below:

The screenshot shows a 'Send Message' form with four input fields. The first field, 'Full Name', is empty and highlighted with a red border. Below it, a red error message says 'Name is required'. The other three fields ('Email' and 'Type your Message ...') are empty and have a light gray background. At the bottom, a red message says 'Please fix errors to submit.' and a 'Send' button is visible.

Figure 66: empty field in input (name)

The screenshot shows a 'Send Message' form with four input fields. The first field, 'Full Name', contains the invalid entry 'wadha' and has a red border. A red error message above the field says 'First and last name, please.' The other three fields ('Email' and 'Type your Message ...') are empty and have a light gray background. At the bottom, a red message says 'Please fix errors to submit.' and a 'Send' button is visible.

Figure 65: incoorect input(name)

The screenshot shows a 'Send Message' form with four input fields. The second field, 'Email', is empty and highlighted with a red border. Below it, a red error message says 'Email Invalid'. The other three fields ('Full Name' and 'Type your Message ...') are empty and have a light gray background. At the bottom, a red message says 'Please fix errors to submit.' and a 'Send' button is visible.

Figure 63: empty field in input (email)

The screenshot shows a 'Send Message' form with four input fields. The second field, 'Email', contains the invalid entry 'wo' and has a red border. A red error message below the field says 'Email Invalid'. The other three fields ('Full Name' and 'Type your Message ...') are empty and have a light gray background. At the bottom, a red message says 'Please fix errors to submit.' and a 'Send' button is visible.

Figure 64:incorrect input (email)

The screenshot shows a 'Send Message' form with four input fields. The third field, 'Type your Message ...', is empty and highlighted with a red border. Below it, a red error message says '30 more characters required'. The other three fields ('Full Name', 'Email', and the message field itself) are empty and have a light gray background. At the bottom, a red message says 'Please fix errors to submit.' and a 'Send' button is visible.

Figure 62: empty and invalid input (message )

When the customer enters fills all the fields and clicks on the “Send” button, all information will be stored in the database to show it in customer service, and "Thank You For Contacting Us" page will be shown to it.

The screenshot shows a 'Send Message' form with two input fields. The first field contains 'wadha mohammed' with a 'Valid' status below it. The second field contains 'wadd@gmail.com' with a 'Valid' status below it. Below these fields is a scrollable message area containing text about essays. At the bottom right is a 'Send' button.

Figure 67: Forms Validation (contact us)

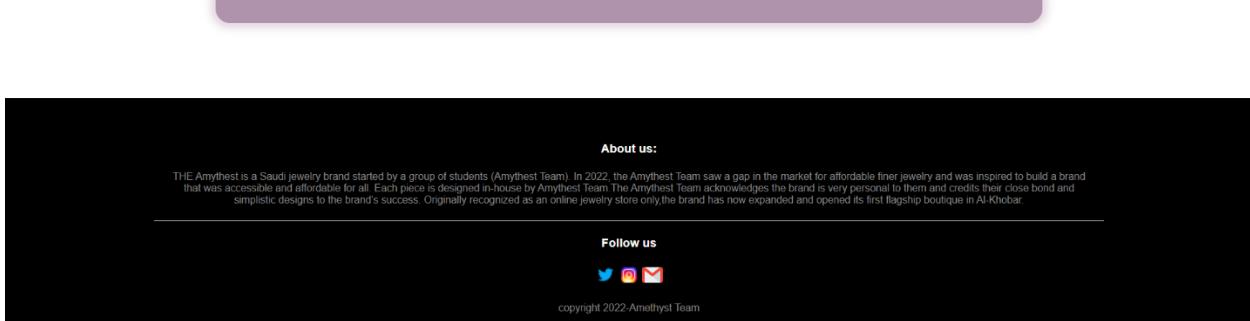
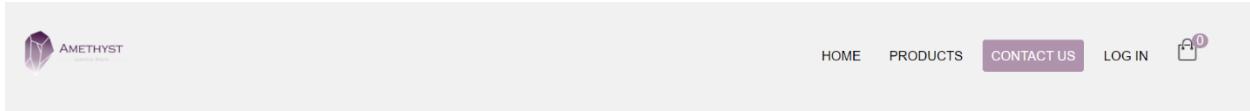


Figure 68: Forms Validation (contact us)

## 5. Add Product:

When the admin clicks the add product button before filling the fields a pop-up message will show to ask the admin to fill the missing fields and error messages will appear under the empty fields.

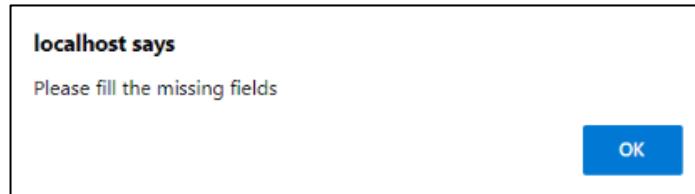


Figure 69: Pop-Up message

A screenshot of the "Add Products" page. The top navigation bar includes "HOME", "PRODUCTS", "ADD PRODUCTS" (which is highlighted), "CUSTOMER SERVICE", and "LOG OUT". The main form has sections for "product image", "Product Information", and "Product Description". Under "Product Information", fields for "Product ID", "Product Name", "Product Price", and "Product Stock" are shown with red validation messages: "An ID is required", "A name is required", "A price is required", and "A stock is required". The "Product Type" dropdown also has a red message: "A type is required".

Welcome Sahar Alzahrani

product image

No file chosen, yet!

CHOOSE AN IMAGE

\* An image is required

Product Information

Product ID: Enter the product ID

\* An ID is required

Product Name: Enter the product name

\* A name is required

Product Price: Enter the product price

\* A price is required

Product Stock: Enter the product stock

\* A stock is required

Product Type: Select a type

\* A type is required

Product Description

Description: \* A description is required

Enter product description

Figure 70: Error messages under empty fields

If the admin enters an id number that is not 3 digits or enters a name that includes numbers, error messages will appear before clicking the add button.

A screenshot of the "Add Products" page showing validation errors for specific inputs. In the "Product Information" section, the "Product ID" field contains "1234" and has a red message: "ID must contain 3 characters". The "Product Name" field contains "The Amethyst Crescent Neckacell" and has a red message: "name cannot include a number".

Product Information

Product ID: 1234

\* ID must contain 3 characters

Product Name: The Amethyst Crescent Neckacell

\* name cannot include a number

Product Price: Enter the product price

Product Stock: Enter the product stock

Product Type: Select a type

Figure 71: error messages for invalid entries

After clicking the add product button pop-up messages will appear if the ID or the name of the product already exist, and the product will not be added to the database.



Figure 72: ID already exists

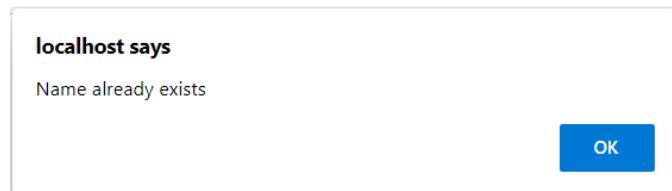


Figure 73: Name already exists

When the admin inputs all the fields correctly a pop-up message will show saying “Product added successfully”.

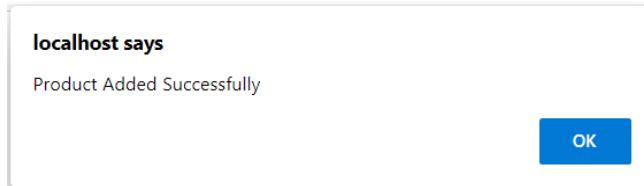


Figure 74: Product added successfully

## **6. Modify Products:**

When the admin would like to modify a product and clicks on the confirm changes button before filling in all the fields a pop-up message will be displayed asking the admin to fill in the missing fields and associated error messages will be shown under the needed and empty fields.



*Figure 75: Missing Fields Pop-Up Message (Modify Products)*

### **Modify Product Details**

**Name:**   
\* A name is required

**Price:**  SAR  
\* A price is required

**Stock:**   
\* A stock is required

**Product Type:**  Necklace

**Product Image:**  No file chosen  
\* An image is required

**Description:**   
\* A description is required

**Confirm Changes**



*Figure 76: Error Messages for Missing Fields (Modify Products)*

If the admin enters a product name that contains numbers, an error message will be shown before clicking the confirm changes button which says, “\*name cannot include a number”.

## Modify Product Details

**Name:**  \* name cannot include a number

**Price:**  SAR \* A price is required

**Stock:**  \* A stock is required

**Product Type:**

**Product Image:**  \* An image is required

**Description:**  \* A description is required

**Confirm Changes**



Figure 77: Error Messages for Name with Number (Modify Products)

After clicking the confirm changes button a pop-up message will appear if the product name is already within the database, and the product will not be modified within the database to reduce the repetition of the product name within the database and website.

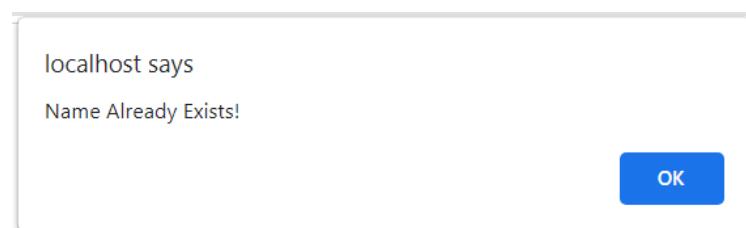


Figure 78: Name Already Exists Pop-Up Message (Modify Products)

As soon as the admin clicks on choose file and chooses an image it will be changed before clicking on the confirm changes button.

## Modify Product Details

**Name:**  
 \* name cannot include a number

**Price:**  
 SAR  
\* A price is required

**Stock:**  
 \* A stock is required

**Product Type:**  
 \*

**Product Image:**  
 \* An image is required

**Description:**  
 \* A description is required

**Confirm Changes**



Figure 79: Image Change Before Submitting the Form (Modify Products)

When the admin enters all data within the input fields correctly a pop-up message will be displayed which says, “Product Has Been Updated Successfully, Thank You For Your Time!”.

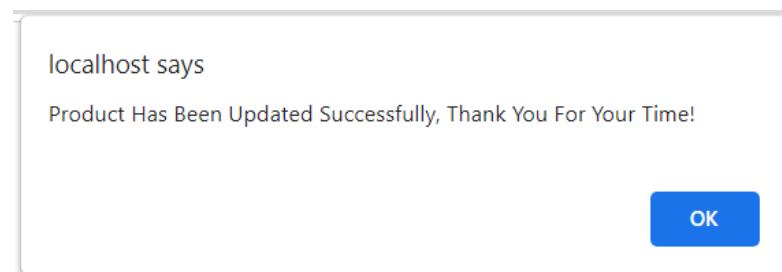


Figure 80: Successfully Update and Modify Pop-Up Message (Modify Products)

## **7. Product Details:**

If the product's stock in the database is zero the add to cart button will not be displayed and a message stating "Sorry but that item is out of stock, we apologize."

Home /Necklace

# New Ring



**300 SAR**

**Quantity:**

Sorry but that item is out of stock,  
we apologize.

**Product Description**



This necklace is made with healing  
amethyst stones and one gold-  
plated crescent charm.

*Figure 81: Product Out of Stock (Product Details)*

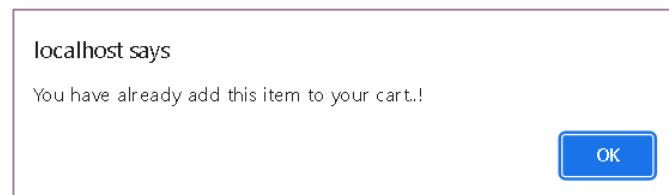
## **8. Cart & Checkout:**

When the customer clicks add to cart button first time in the cart shopping (product id has not in cart before) "The Product Has Been Added to the Cart..!".



*Figure 82:Product has been Added to the cart*

When the customer clicks add to cart button more than once of the same product (product id has been already on cart shopping) a pop-up message shows alerts customer "You have already added this item to your cart..!" .



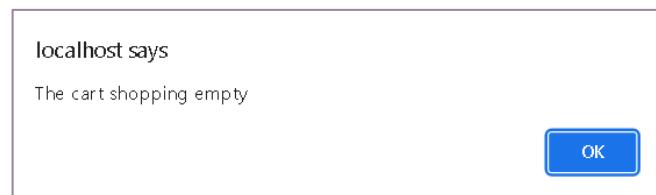
*Figure 83:product already in cart shopping*

When the customer clicks delete icon for specified product will appear a pop-up message says that The product name with "has been removed from your cart..!"



*Figure 84: Product has been removed from the cart*

When the customer clicks Empty shopping cart will appear a pop-up message says, "The cart shopping empty".



*Figure 85:the cart shopping empty*

When the customer clicks buy but all or one of fields are empty will appear text help below text filed and the text field will show red border to alert customer that should all fields has been filled to make order.

The screenshot shows a mobile payment interface with a progress bar at the top. Below the bar, there are two tabs: "Checkout" and "Payment". The "Payment" tab is selected. The form contains several input fields with validation messages:

- First Name:** An empty input field with a red border. Below it, the message "Please enter your First Name." is displayed in red.
- Last Name:** An empty input field with a red border. Below it, the message "Please enter your Last Name." is displayed in red.
- Email:** An input field containing "Amethyst@hotmail.com" with a red border. Below it, the message "Please enter a e-mail address." is displayed in red.
- Phone Number:** An input field containing "05x xxx xxxx" with a red border. Below it, the message "Please enter your phone number." is displayed in red.
- City:** An empty input field with a red border. Below it, the message "Please enter your city" is displayed in red.
- Street:** An empty input field with a red border. Below it, the message "Please enter the street" is displayed in red.
- Building Number:** An empty input field with a red border. Below it, the message "Please enter the Building Number" is displayed in red.
- Cardholder's Name:** An empty input field with a red border. Below it, the message "Please enter Cardholder's Name" is displayed in red.
- Card Number:** An empty input field with a red border. Below it, the message "Please enter your Card Number" is displayed in red.
- Expires Date / CVV / CVC:** A row of three input fields: "mm/yy" (with a camera icon), "Please enter the Expires Date.", and "Please enter your CVV." (with a lock icon).
- Payment Options:** Two radio buttons for payment methods: "Pay SAR 610 with visa or MasterCard" (selected) and "Pay SAR 610 with mada credit card".

At the bottom, there are "Back" and "Buy" buttons. The "Buy" button is highlighted in purple.

Figure 86:text fields empty validation

When the customer clicks buy but all or one of fields are do not match the correct format will appear text help below text filed and the text field will show red border to alert customer that should all fields has been filled with correct format and length, the Expire date should be at least

greater than current date (month/year), email field should contains @ sign and follow format of Email and phone number should begin with 05 and the length is 10 numbers to make order.

The screenshot shows a mobile application interface for a payment process. At the top, there is a navigation bar with three items: "Cart", "Checkout & Payment", and "Complete Order". Below this, the "Checkout" section is displayed, followed by the "Payment" section.

**Checkout Section:**

- First Name:** teaf (Valid)
- Last Name:** bashamakh 2 (Error: Not a valid Last Name, Should Not Contain Numbers)
- Email:** 2190005515 (Error: Not a valid email, should be in format xxx@domin.com)
- Phone Number:** 4444444444 (Error: Not a valid phone number, should be in format 05x xxxx xxxx all number)
- City:** Dammam1 (Error: Not a valid City Name, Should Not Contain Numbers)
- Street:** A-hazam 1 (Valid)
- Building Number:** 3000aa (Error: Not a valid Building Number, Should Only Contain Numbers)

**Payment Section:**

Cardholder's Name: Hajar Ba

Card Number: 1111 1111 1111 (Error: Not a valid Card Number, should be 18 numbers)

Expires Date: 05/22

CVV / CVC: .. (Error: The Card is Expired)

\* CVV or CVC is the card security code, unique three digits number on the back of your card separate from its number.

**Buttons at the bottom:**

- Back
- Buy (Large purple button)

Figure 87:text fields format validation

Also, some fields should only contain letters (First and Last name, City, Cardholder's name) or only contain digits (Phone number, Building number, Card number, Expire date, CVV) and some other can be both letters and digits (Street).

There are fields that automatically validate the format of field (phone number, Card number, Expire date, CVV).

When customer fills all fields correctly all fields will show green border before leading customer to Complete Order page to confirm that the order has been placed, and the cart will be empty (session end).

The screenshot shows a mobile application interface for a checkout process. At the top, there is a horizontal progress bar with three dots. The first dot is dark purple, the second is light grey, and the third is white. Below the progress bar, the text "Cart", "Checkout & Payment", and "Complete Order" are displayed, with "Checkout & Payment" being the active step.

The main area is divided into two sections: "Checkout" on the left and "Payment" on the right.

**Checkout Section:**

- First Name:
- Last Name:
- Email:
- Phone Number:
- City:
- Street:
- Building Number:

**Payment Section:**

- Cardholder's Name:
- Card Number:
- Expires Date:
- CVV / CVC:

Below the payment section, there is a note: "\* CVV or CVC is the card security code, unique three digits number on the back of your card separate from its number."

At the bottom, there are two buttons: "Back" on the left and a large purple "Buy" button on the right.

Figure 88: all entries are valid to make order

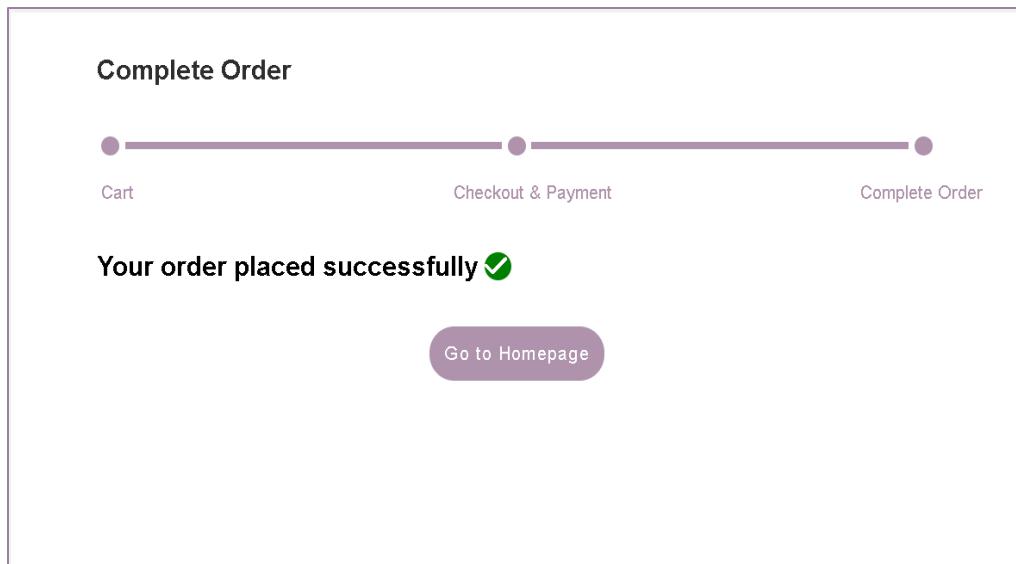


Figure 90: confirm the order has placed successfully

P_id	name	picture	category	price	stock
666	Round Ring Gold, Purple Amethyst	images/RoundRing.jpg	Ring	600	11

Figure 89:: database product stock before make order

## 9. Checkout:

Products	Quantitiy	Subtotal
 <b>Round Ring Gold, Purple Amethyst</b> Price: SAR 600 Ring	 2	SAR 1200
	Subtotal	SAR 1200
	Delivery Cost	SAR 10
	Total	SAR 1210

Figure 91:Quantity in the cart of the product

### Calculation:

Product price =600

Quantity =2

Subtotal=600\*2=1200

Total =1200 +10=1210

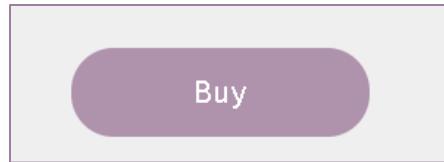


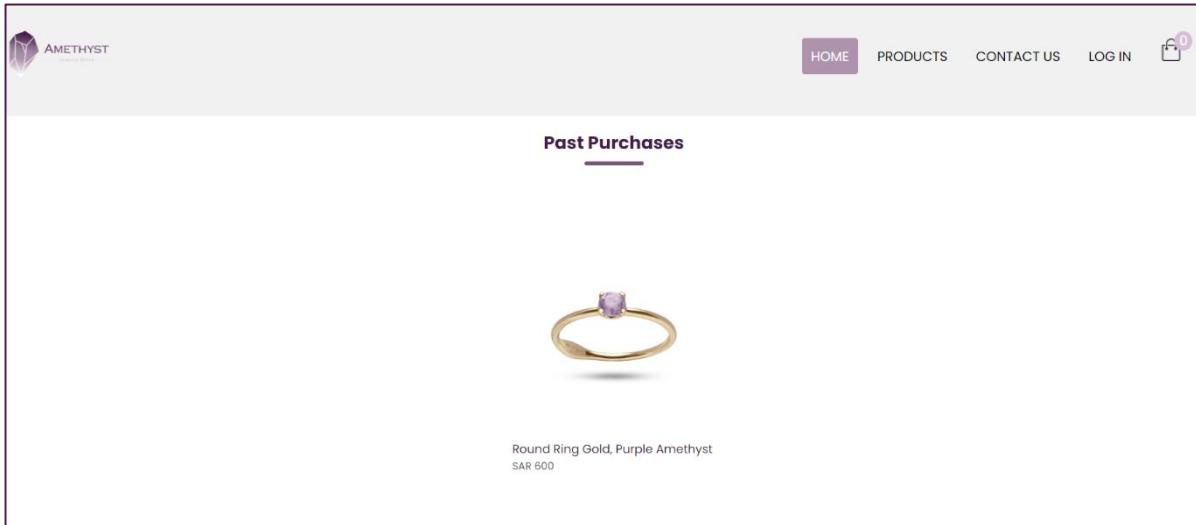
Figure 92: Buy button for validation and make order.

P_id	name	picture	category	price	stock
666	Round Ring Gold, Purple Amethyst	images/RoundRing.jpg	Ring	600	9

Figure 93: database product stock after make order

## **10. Past purchases**

After completing the purchase, the purchased products will appear on the home page under the title Past purchases



*Figure 94: Past purchases*

If the customer makes another purchase, the products he purchased will appear in addition to the products from his first order

My Cart		
	Cart	Checkout & Payment
		Complete Order
<b>Products</b>		
	 The Amethyst Crescent Necklace Price: SAR 300 necklace	<input type="text" value="1"/> SAR 300
	 Rose Gold Amethyst Ring Price: SAR 280 Ring	<input type="text" value="1"/> SAR 280
		<hr/>
Subtotal		SAR 580
Delivery Cost		SAR 10
Total		SAR 590

Figure 96: Second purchase

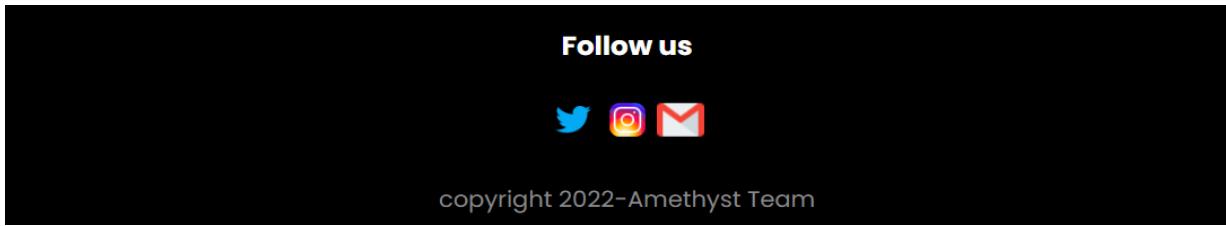
Figure 97: Second purchase



Figure 95: Past Purchases After The Second purchase

## **11.Social media icons:**

If the customer clicks on one of the social media icons which is twitter, Instagram, email. that media will be open.



The figure consists of three panels. The top panel is a black card with white text and icons. The middle panel is an Instagram profile for 'amytheststore' showing posts of jewelry. The bottom panel is a Hotmail inbox showing a message being composed to an email address that is a social media link.

*Figure 98 social media accounts*