

ART GALLERY PROJECT

Team Members:

1-Ahmad Mohamed Elkhyat

2-Laila Ashraf Ahmed

3-Ahmed Morshedy

4-Mustafa Hussien

Techencies we use in project :

Frontend : Next.js

Backend : Node.js with Express.js

DataBase : MySql

Project is separating into two sides:

1-Client side

2-Server side

We will talk about :

Database Design and Implementation

We designed and implemented 7 core tables in the database to represent key entities:

- Users
- Admins (stored in the same table as users with role differentiation)
- Categories
- Products
- Orders
- Order Items
- Carts
- Reviews

Backend Endpoints

For each table, we developed a full set of CRUD operations and created 40 endpoints in total, organized as follows:

- GET: Fetch all records.
- GET (id): Fetch a specific record by ID.

- **POST:** Create a new record.
- **PATCH (id):** Update a specific record by ID.
- **DELETE (id):** Delete a specific record by ID.

Endpoints include :

- /users
- /admins
- /categories
- /products
- /orders
- /order-items
- /carts
- /reviews

Validation and Testing

- **Input Validation:** Implemented for all endpoints to ensure data integrity.
- **Comprehensive Testing:** Tested all possible use cases using Postman, such as:
 - Missing or incomplete data inputs.
 - Invalid data formats.
 - All CRUD functionalities across each endpoint.

Architecture and Workflow

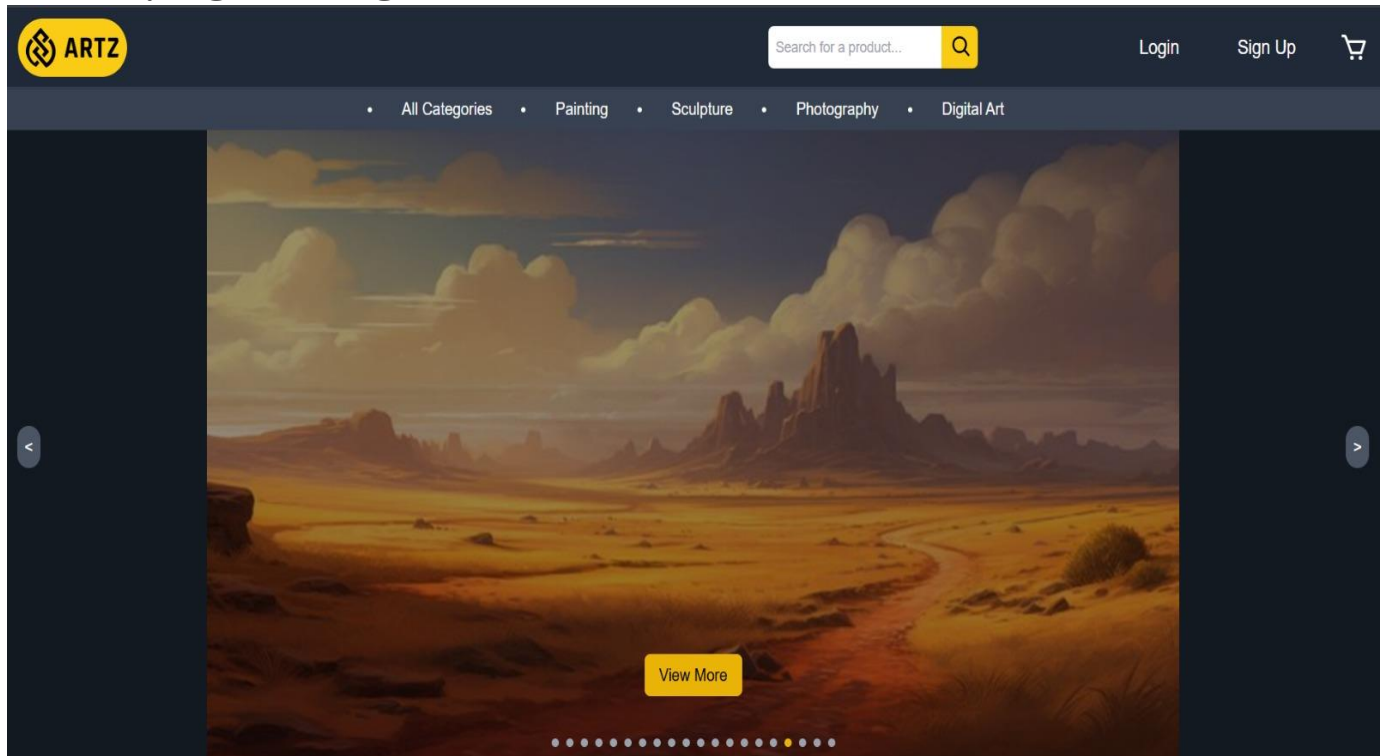
- Followed the MVC (Model-View-Controller) structure to maintain organized code and scalability.

FrontEnd Design :

Separated into two parts:

1-Users :

Homepage design :



Products



Ocean Waves

A serene view of ocean waves crashing on the shore....

\$120.00

Add to Cart



Abstract Night

A captivating abstract painting of a starry night....

\$180.00

Add to Cart



Forest Path

A tranquil forest path in autumn....

\$140.00

Add to Cart



Modern Art Piece

An innovative piece that challenges traditional forms....

\$250.00

Add to Cart



Customer Reviews

Customer 2

Absolutely stunning! The colors are vibrant and mesmerizing.

Rating: 5 ★

Customer 3

Great sculpture, but a bit smaller than expected.

Rating: 4 ★

Customer 4

This piece is breathtaking! Highly recommend.

Rating: 5 ★

Customer 5

Nice artwork, but the shipping took too long.

Rating: 3 ★

Customer 2

Amazing piece, it looks even better in person!

Rating: 5 ★

Customer 3

Very good quality, but the delivery was slow.

Rating: 4 ★

Customer 4

Perfect addition to my collection, highly recommended!

Rating: 5 ★

Customer 5

The artwork was okay, but not as expected.

Rating: 3 ★

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Create an Account

Name

Email

Password

Address

Phone Number

Gender

Male

Sign Up

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Welcome, Ahmed Elkhyat

Email: ahmed@gmail.com

Address: 24 Abbas El Akkad, Cairo, Egypt

Phone Number: +201112345678


Gender: Male

Go to Home

Log Out

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Shopping cart:




Search for a product...


Ahmed ElkhyatLogout


All CategoriesPaintingSculpturePhotographyDigital Art

Shopping Cart





Ocean Waves
- 2 +
\$240.00






Abstract Night
- 1 +
\$180.00





Stone Sculpture
- 1 +
\$500.00







Clear Cart


Total: \$920.00

Checkout

Add Product



Checkout and Billing :




Search for a product...

Ahmed ElkhyatLogout


All CategoriesPaintingSculpturePhotographyDigital Art

Checkout


Your Cart



Ocean Waves
2 × \$120.00
Rating: N/A



Abstract Night
1 × \$180.00
Rating: N/A



Stone Sculpture
1 × \$500.00
Rating: N/A

Total: \$920.00

Total: \$920.00

Billing Information

Name

Ahmed Elkhyat

Email

ahmed@gmail.com

Address

24 Abbas El Akkad, Cairo, Egypt

Phone


+201112345678

Submit

By proceeding, you agree to our [Terms of Service](#) and [Privacy Policy](#).

2-Admins :

Admin home page :



Products






















Orders

Customers

Products

Search Products...

Create Product +

Id	Image	Title	Category	Amount	Count	
1		Ocean Waves	Painting	120.00\$	15	 
2		Abstract Night	Painting	180.00\$	8	 
3		Forest Path	Painting	140.00\$	12	 
4		Modern Art Piece	Sculpture	250.00\$	6	 
5		Stone Sculpture	Sculpture	500.00\$	3	 
6		Nature Photography	Photography	100.00\$	20	 
7		City Lights	Photography	130.00\$	10	 

Create product:

ARTZ

Products

Orders

Customers

Sign Out

Products / Create Product

Choose Image

+

Product Title

Enter a title

Product Description

Enter a description

Category

Select a category

Product Amount

Enter USD amount

Cancel>Create Product

Edit product :

ARTZ

Products

Orders

Customers

Sign Out

Products / Edit Product

Ocean Waves

Choose a price

120.00

Product description

A serene view of ocean waves crashing on the shore.

Choose Category

Painting

Product Count

15

Cancel>Edit Product

Orders :

ARTZ

Products

Orders

Customers

Orders

Q Search Orders...

Customer	Email	Amount	Date	Status	
Ahmed Elkhyat	ahmed@gmail.com	380.00\$	Nov 29, 2024	Pending	<div><div></div><div></div></div>
Laila Ashraf	laila@gmail.com	300.00\$	Nov 29, 2024	Pending	<div><div></div><div></div></div>
Ahmed Morshedy	morshedy@gmail.com	450.00\$	Nov 29, 2024	Pending	<div><div></div><div></div></div>
Mustafa Hussein	mustafa@gmail.com	120.00\$	Nov 29, 2024	Pending	<div><div></div><div></div></div>
Ahmed Elkhyat	ahmed@gmail.com	250.00\$	Nov 29, 2024	Shipped	<div><div></div><div></div></div>
Laila Ashraf	laila@gmail.com	370.00\$	Nov 29, 2024	Delivered	<div><div></div><div></div></div>
Ahmed Morshedy	morshedy@gmail.com	590.00\$	Nov 29, 2024	Cancelled	<div><div></div><div></div></div>
Mustafa Hussein	mustafa@gmail.com	180.00\$	Nov 29, 2024	Delivered	<div><div></div><div></div></div>

Edit order:

ARTZ

Products

Orders

Customers

Sign Out

Orders / Edit Order

Choose customer

Ahmed Elkhyat

Choose an amount

380.00

Set the invoice status

Pending

Shipped


Delivered

Cancelled

Cancel

Edit Order









Customers :




- Products
- Orders
- Customers
- Sign Out

Customers

Q Search Customer...

Id	Name	Email	Phone Number	Address	
2	Ahmed Elkhyat	ahmed@gmail.com	+201112345678	24 Abbas El Akkad, Cairo, Egypt	 
3	Laila Ashraf	laila@gmail.com	+201223456789	102 Rehab City, Cairo, Egypt	 
4	Ahmed Morshed	morshedy@gmail.com	+201334567890	15 El-Salam Street, Cairo, Egypt	 
5	Mustafa Hussein	mustafa@gmail.com	+201445678901	5 El-Ghazali Street, Cairo, Egypt	 

Edit customers :



- Products
- Orders
- Customers
- Sign Out

Customers / Edit Customer

Customer Name

Ahmed Elkhyat

Customer Email

ahmed@gmail.com

Customer Address

24 Abbas El Akkad, Cairo, Egypt

Customer Phone Number

+201112345678

Customer Gender

☒ Male ☐ Female

Cancel

Edit Order