DATA BASE FINAL PROJECT

What is the system for?

This system is designed as a simplified e-commerce platform **similar to "Noon"**, where users can register, browse products, place orders, and make payments.

It manages the main components of online shopping such as Users, Products, Orders, Order Items, and Payments, ensuring smooth and reliable transactions.

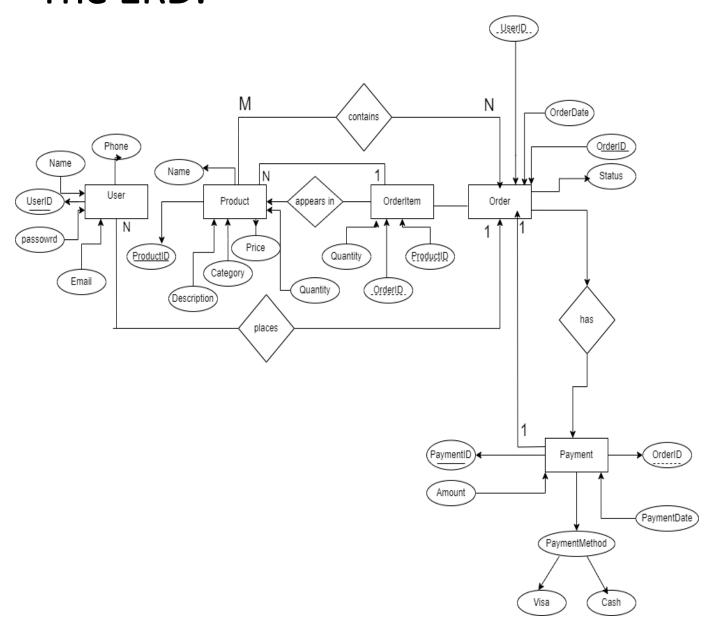
Who are the users?

Customers: These are the people who:

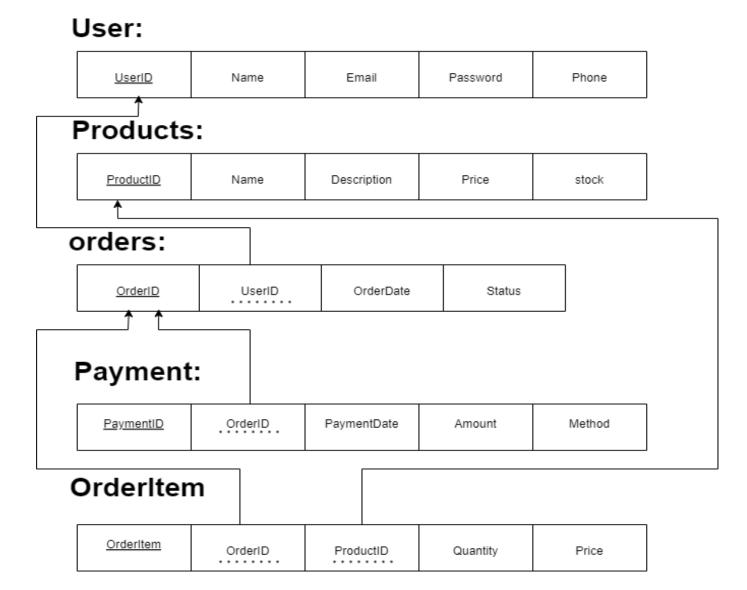
- Register on my platform.
- Browse and search for products.
- Place orders.
- Make payments for the products they wish to buy.

Entity	Attributes
Users	UserID, Name, Email, Password, Phone
Products	ProductID, Name, Description, Price, Quantity, Category
Orders	OrderID, UserID, OrderDate, Status
OrderItem	OrderID, ProductID, Quantity)
Payments	PaymentID, OrderID, Amount, PaymentDate, PaymentMethod

The ERD:



THE MAPPING:



Normalization:

1NF:	Paymet amount	Paymet Method	Quantity	Product Price	ProductName	UserEmail	User Name	Order ID
	Users							

2NF:

Email	Name	UserID
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Product

Price	Name	ProductID
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Order



Orderltem

OderID	ProductID	Quatitiy

Payment:

PaymentID	OrderID	PaymentDate	Amount	Method
	1			

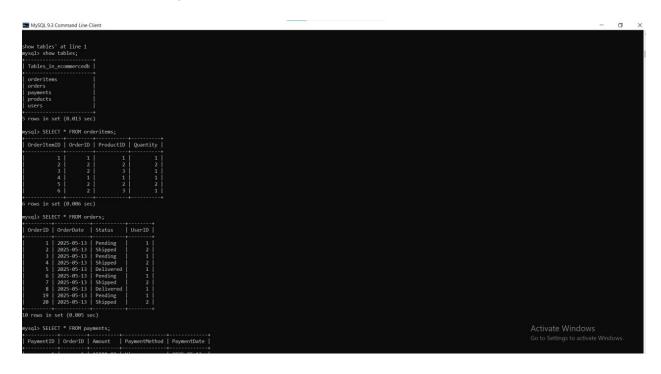
3NF

All tables are in 2NF

There are no transitive dependencies

Each non-key attribute depends only on the primary key of its own table

Insert Sample Data & SQL Queries:





	ECT = FRO							
serID	Name		Password	Phone				
1	Zizi	zizi@mail.com	zizi123	01111111111				
2	Ali	ali@mail.com	ali123	01234567890				
3		zizi@example.com		01000000001				
4	Ahmed	ahmed@example.com	ahmed123	010000000002				
5	Sara	sara@example.com	sara123	01000000003				
58	Zizi	zizil@example.com	zizi123	01000000001				
59	Ahmed	ahmed1@example.com	ahmed123	01000000002				
60	Sara	sara1@example.com	sara123	01000000003				
61	Omar	omar1@example.com	omar123	01000000004				
62	Mona	monal@example.com	mona123	01000000005				
63 64	Hana	hanal@example.com	hana123	01000000006				
65	Tarek Laila	tarek1@example.com laila1@example.com	tarek123	01000000007 010000000008				
66		mostafal@example.com						
67	Nour	nour1@example.com	nour123	01000000000				
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/sql> SELECT	ommand Line Client T * FROM Products		SE S	22
ProductID	Name	+ Description	Category	Price
1 2 3 4 5 6 7 8	Laptop Phone Charger Laptop Smartphone Wireless Mouse Backpack Laptop Phone	Gaming Laptop Android Smartphone Fast Charger Gaming laptop with RTX GPU Latest Android smartphone Ergonomic and wireless Laptop backpack with USB charger Gaming Laptop Audroid Smartphone	Electronics Electronics	10000.00 500.00 25000.00 12000.00 600.00 350.00 15000.00
8 9 10 us in se	Laptop Phone Charger + et (0.010	sec)	Gaming Lanton Android Smartphone Fast Charger Sec) 	Gaming Laptop Electronics Android Smartphone Electronics Fast Charger Accessories sec) Products MHERE ProductID = 1;
tID	Name Descri	wHERE ProductID = 1; ption Category Price		
		Laptop Electronics 15000.00		
-> Pr -> Pr -> Qu ->); OR 1050 (4 ql> SELECT OR 1054 (4 ql> SELECT -> WHERE	T ProductName, Pr 42522): Unknown c T * FROM Products Price > 100;	R(100), 2), oducts' already exists ice FROM Products; olumn 'ProductName' in 'field list'		
ProductID		Description	Category	Price
1 2 3 4 5	Laptop Phone Charger Laptop Smartphone	Gaming Laptop Android Smartphone Fast Charger Gaming laptop with RTX GPU Latest Android smartphone	Electronics Electronics Accessories Electronics Electronics Accessories	10000.00 500.00 25000.00 12000.00 600.00
6 7 8	Wireless Mouse Backpack Laptop	Laptop backpack with USB charger Gaming Laptop	Accessories	



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SECTION/ A3

THANK YOU...