# Database Final Project "E-commerce Store"

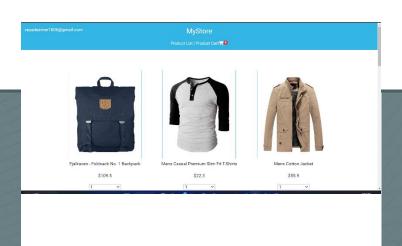
## Zeyad Ahmed Samer Saeed Eldamarawy

Date
31/12/2022
Course title
Database Systems

Dr.Salah Elewa

### **Project Description**

This project is a full-stack Ecommerce Store application. The user of this is project is able to sign up and sign in, view products, add products to cart and submit orders



### **Application Dependencies**

### Technologies used in that project:

- **Frontend:** Angular framework that uses the JavaScript language
- Backend: Node.js using express framework
- **<u>Database:</u>** PostgreSQL database
- **Database running environment:** The database is created and manipulated using Docker which creates a container(running environment) for PostgreSQL image (app).
- <u>Migration:</u> db-migrate library is used in order to run all the SQL files necessary for creation of the tables in certain order in addition to droping tables.

### Running the Backend

- Navigate to the storefrontapi directory using command "cd storefrontapi"
- 2. Run the docker compose file(which have set of commands and configurations necessary for creating the PostgreSQL running environment and database connections) using the command "docker compose up"
- 3. Execute the postgres terminal using to interact with PostgreSQL database using the following command "docker exec -it <image-name> /bin/bash". Note that <image-name> is storefrontapi-postgres-1. To check that the container is running run on your terminal "docker ps" to see running containers.
- 4. Navigate to postgres using the following commands.
  - Su postgres
  - psql
  - Create database store
  - \c store
  - Then you can run any queries
  - Then navigate to storefrontapi directory and run npm run watch

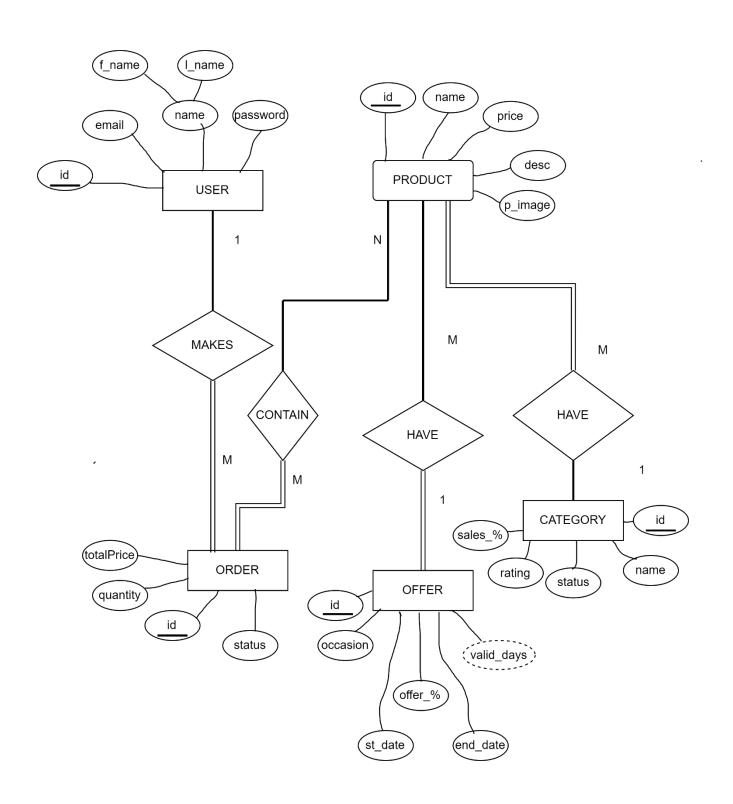
## **Running the Frontend**

1. Navigate to the Mystore-app/app directory using

"cd Mystore-app/app"

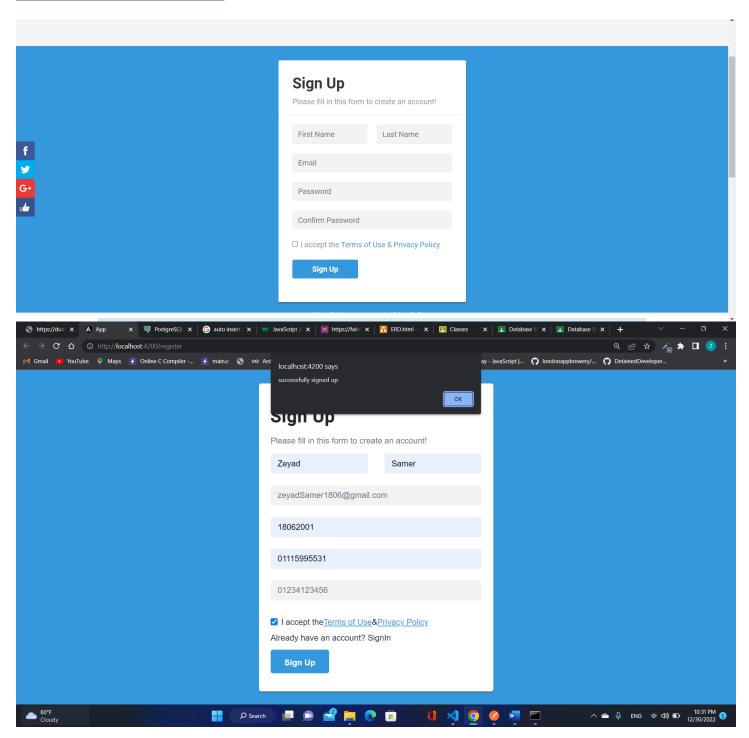
2. Then run "ng serve -o"

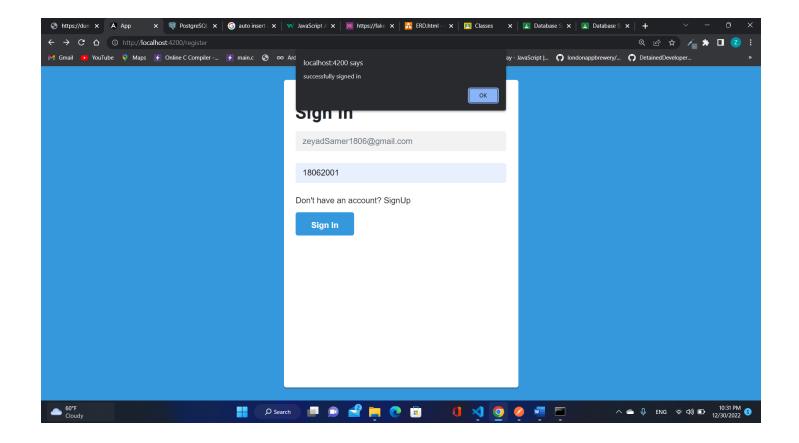
# **ERD Diagram**



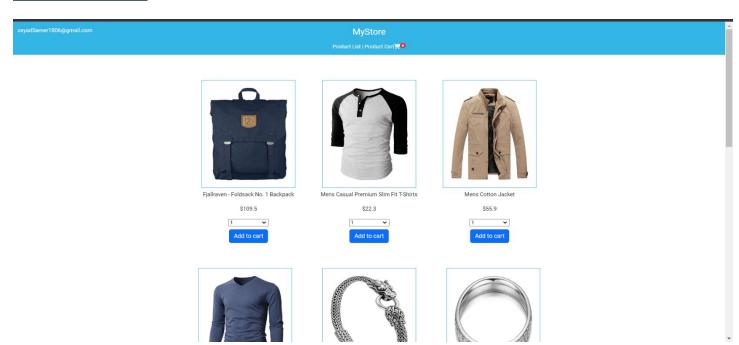
## **Project Flow**

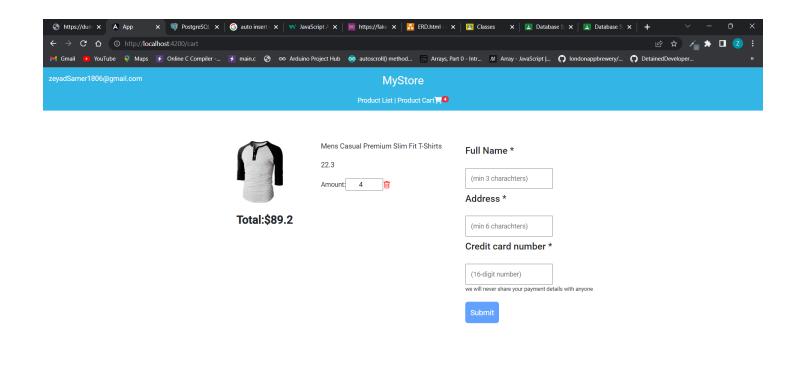
## Sign up and Sign in:



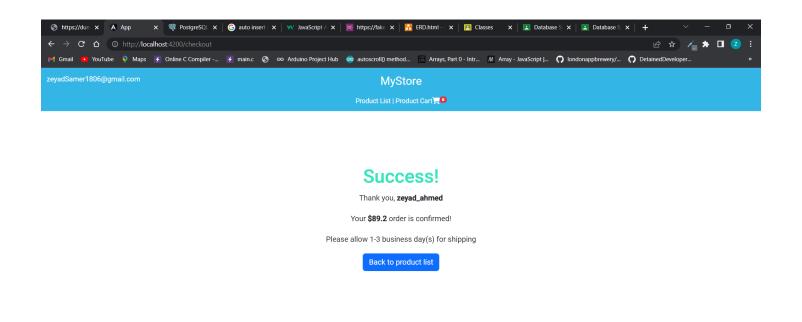


## **Application:**





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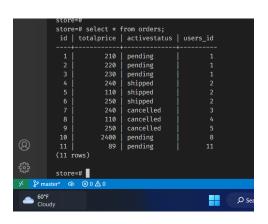


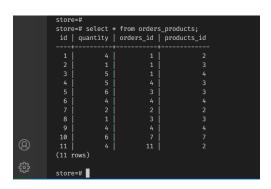


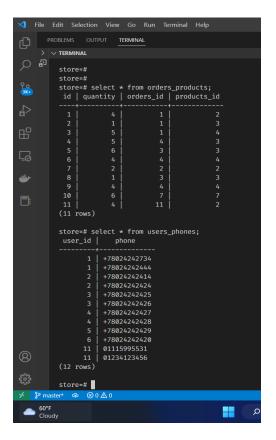
## **SQL Queries and Tables**

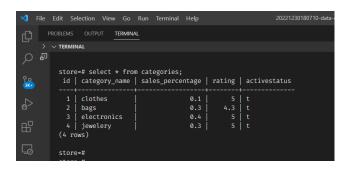
5	store=# select * from users;   id   firstname   lastname   email   userpassword								
				email 	userpassword				
	1	Zeyad	Ahmed	zeyad@email.com	123456				
		loay	wael	loay@mail.com	123456				
		mohamed	Aly	mohamed@mail.com	123456				
		mirna	aly	mirna@mail.com	123456				
		gad	Aly	gad@mail.com	123456				
		aser	elsayed	aser@mail.com	123456				
	8	waleed	Atef	waleed@mail.com	123456				
	9	Ahmed	karam	karam@mail.com	123456				
		ibrahim	yosri	ibrahim@email.com	123456				
	11	Zeyad	Samer	zeyadSamer1806@gmail.com	\$2b\$10\$QobGvwdUvU/JQqC0tSx600cy2ZjOJQFyOfAtlXJidSEDPtqXcTnE2				
(	(10 rows)								
	store=#								

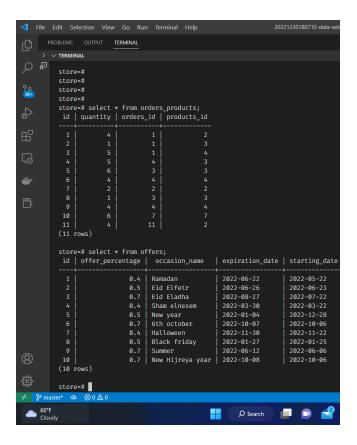
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3K+		iption	product_image   0	category_id   offer_id				
<b>☆</b>								
BB								
<u>_</u>		1   Fjallraven - Foldsack No. 1 Backpack up to 15 inches) in the padded sleeve, your everyday	109.5   Your perfect pack for everyday use and walks in the fore	st. Stash your laptop (				
<b>-</b>		h 2   Mens Casual Premium Slim Fit T-Shirts ight weight 8 soft fabric for breathable and comfortable wearing. And Solid	https://fakestoreapi.com/img/81fPKd-2AYLAC_SL1500jpg   22.3   Slim-fitting style, contrast raglan long sleeve, three-bi stitched shirts with round neck made for durability and a great fit for ca					
		diehard baseball fans. The Henley style round neckline includes a three-butt   h 3   Mens Cotton Jacket	on placket. https://fakestoreapi.com/img/71-3HjGNDULAC_SY879SXUXSYUYjpg     55.9   great outerwear jackets for Spring/Autumn/Winter, suitab	1   2 Le for many occasions,				
		g or other outdoors. Good gift choice for you or your family member. A warn	n hearted love to Fathe					
		h 4   Mens Casual Slim Fit Please note that body builds vary by person, therefore, detailed size inform	https://fakestoreapi.com/img/71li-ujtlUL.AC_UX679jpg     15.99   The color could be slightly different between on the scrunation should be reviewed below on the product description.	1   een and in practice./				
		https://fakestoreapi.com/img/71YXzeOuslLAC_UY879jpg   1   5   John Hardy Womens Legends Naga Gold & Silver Dragon Station Chain Bracelet   695   From our Legends Collection, the Naga was inspired by the mythical water dragon that protects the oceans pearl. Wear facing inward to be bestowed with love and abundance, or outward for protection.						
		h 6   Solid Gold Petite Micropave nd sold by Hafeez Center in the United States. Satisfaction Guaranteed. Retu	nttps://fakestoreapi.com/img/71pWzhdJNwLAC_UL640_QL65_ML3jpg     168   Satisfaction Guaranteed. Return or exchange any order wi urn or exchange any order within 30 days.	4   thin 30 days.Designed a				
(8)		h 7   White Gold Plated Princess s to spoil your love more for Engagement, Wedding, Anniversary, Valentine Da	nttps://fakestoreapi.com/img/61sbMiUnoGLAC_UL640_QL65_ML3jpg     9.99   Classic Created Wedding Engagement Solitaire Diamond Prom ay	4   mise Ring for Her. Gift				
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#### Sql Queries for data extraction and manipulation

```
SELECT * FROM USERS;

DELETE from users where id=10;

UPDATE users set email='ibrahim@email.com' where email='ibra@mail.com';

SELECT max(price)as Maximum_Product_Price from products;

SELECT avg(price)as avg_Price_for_store_products from products;

select * from users join users_phones on users.id=users_phones.user_id;

select product_name,price as old_price,price *offer_percentage as new_price,offer_percentage,occasion_name,

expiration_date ,starting_date ,(expiration_date - starting_date) as remaining_days
    from products join offers on products.offer_id=offers.id;
```

#### **Results:**

