الجامعة المصرية اليابانية للعلوم و التكنولوجيا
エ ジ プ ト 日 本 科 学 技 術 大 学
EGYPT-JAPAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

CSE428
Data Engineering

Grocery Shop Project

Submitted by

Mina Thabet Telmeez 120200163
Mohamed Hesham 120200120
Ziad Yaser Morsi 120200065
Omar Mamdouh 120200082
Karim Ezzat 120200271

Project Documentation

Endpoints

User Authentication
POST /signup: Register a new user.
POST /login: Authenticate and log in a user.
POST /verify: Verify a user's email address.
POST /forgot-password: Request a password reset.
POST /reset-password/<token>: Reset the user's password using a token.

User Profile
GET /getPaymentMethods: Get user's payment methods.
POST /addPaymentMethod: Add a payment method for a user.
POST /removePaymentMethod: Remove a payment method for a user.

Product Operations
GET /getAllProduct: Get information about all products.
GET /getProductInfo: Get information about a specific product.
GET /filterByPrice: Filter products by price range.
GET /filterByBrand: Filter products by brand.
GET /filterByNationality: Filter products by nationality.
GET /filterEgyptian: Filter products by nationality (specific to Egyptian).
GET /getBySearch: Search products by name.

Shopping Cart
POST /addToCart: Add a product to the shopping cart.

GET /view_cart: View the contents of the shopping cart.
POST /removeFromCart: Remove a product from the shopping cart.
POST /decreaseProductQuantityInCart: Decrease the quantity of a product in the cart.
POST /increaseProductQuantityInCart: Increase the quantity of a product in the cart.

Order Placement
POST /placeOrder: Place an order (Buy Now).
POST /confirmOrders: Confirm and complete the order.

Order History
GET /myOrders: Get a user's order history.

Discounted Products
GET /discounted_products: Get products with discounts.

Product Purchase Statistics
GET /productPurchaseStats: Get statistics on the number of users who purchased a product.

Database Schema

"Client" Table
email: VARCHAR(255) PRIMARY KEY
password: VARCHAR(255)
b_date: DATE

user_name: VARCHAR(255)
address: VARCHAR(255)
profile_image:VARCHAR(255)

"product" Table
id: INT PRIMARY KEY AUTO_INCREMENT
product_name: VARCHAR(255)
quantity: INT
price: INT
brand: VARCHAR(255)
nationality: VARCHAR(255)
discount: INT
new_price: INT

"cart" Table
id: INT PRIMARY KEY AUTO_INCREMENT
client_email: VARCHAR(255)
quantity: INT
total_price: INT
FOREIGN KEY (client_email): REFERENCES client(email)

"orders" Table
id: INT PRIMARY KEY AUTO_INCREMENT
user_id: VARCHAR(255)
cart_id: INT
payment_method: VARCHAR(255)
order_date: DATE

total_price: INT
FOREIGN KEY (user_id): REFERENCES client(email)
FOREIGN KEY (cart_id): REFERENCES cart(id)

"payment" Table
id: INT PRIMARY KEY AUTO_INCREMENT
user_id: VARCHAR(255)
card_owner: VARCHAR(255)
card_number: BIGINIT(16)
cvv: INT
FOREIGN KEY (user_id): REFERENCES client(email)

"product_cart" Table
product_id: INT
cart_id: INT
product_quantity: INT
FOREIGN KEY (product_id): REFERENCES product(id)
FOREIGN KEY (cart_id): REFERENCES cart(id)

"product_order" Table
product_id: INT
order_id: INT
product_quantity: INT
FOREIGN KEY (product_id): REFERENCES product(id)
FOREIGN KEY (order_id): REFERENCES orders(id)

Division of the work among the team (contribution of each member) :

(Ziad – Mina – Karim) worked on backend and divided the endpoints among them.

Ziad: Created the user authentication endpoints (sign up – login – verify – forget – reset), (view cart - increase product quantity in cart – discounted products – add to cart – view cart)

Karim: created product operations endpoints (get all product – get product info – filter by price – filter by brand – filter by nationality – filter Egyptian – get by search)

Mina: created shopping cart endpoints (remove from cart – decrease product quantity in the cart)

Created orders endpoints (place order – confirm orders – my orders)

Created product purchase statistics endpoints (product purchase stats (overall and last 24 hours)

Created User profile endpoints (get payment methods – add payment methods – remove payment methods)

(Omar – Mohamed) Worked on frontend.

Omar: Created pages (cart, categories, details, payment pages)

Mohamed: connected the front to the back - Created pages (login, sign up, homepage, forget password, reset password)

This is our repository link.