Tabelas

- users
- > products
- > reviews
- totp_temp
- emergency_codes
- *_cart
- all_orders
- *_orders

Atributos

> users

- [PK] id
- username
- password
- reset_token
- reset_token_timestamp
- email
- secret_key
- secret_key_timestamp
- admin

> products

- [PK] id
- name
- description
- price
- category
- stock

> reviews

- [PK] id
- product_id
- user_id
- rating
- review

totp_temp

- [PK] id
- username
- secret_key
- secret_key_timestamp
- email
- password

emergency_codes

- [PK] id
- code
- born

*_cart

- [PK] product_id
- quantity

> all orders

- [PK] id
- user_id
- order_date

*_orders

- [PK] id
- products
- total_price,
- shipping_address
- order_date

Plano para uma implementação melhorada

users

- [PK] user_id (INT NOT NULL)
- username (VARCHAR(255) NOT NULL)
- hashed_password (VARCHAR(255) NOT NULL)
- password_reset_token (VARCHAR(255))
- password_reset_token_timestamp (DATETIMEOFFSET)
- email (VARCHAR(255) NOT NULL)
- totp_secret_key (VARCHAR(255) NOT NULL)
- totp_secret_key_timestamp (DATETIMEOFFSET NOT NULL)
- admin_role (BIT NOT NULL)

> products

- [PK] product_id (INT NOT NULL)
- product_name (VARCHAR(255) NOT NULL)
- description (VARCHAR(255) NOT NULL)
- price (MONEY NOT NULL)
- category (VARCHAR (255) NOT NULL)
- stock (INT NOT NULL)

> reviews

- [PK] review_id (INT NOT NULL)
- [FK] product id (INT NOT NULL)
- [FK] user_id (INT NOT NULL)
- review_text (VARCHAR(255) NOT NULL)
- rating (INT NOT NULL)
- review_date DATE NOT NULL,

> emergency_codes

- [PK] [FK] user_id (INT NOT NULL)
- [PK] emergency_code (INT NOT NULL)
- emergency_code_valid(BIT NOT NULL)
- emergency_code_timestamp (DATETIMEOFFSET NOT NULL)

> carts

- [PK] cart_id (INT NOT NULL)
- [PK] [FK] user_id (INT NOT NULL)
- [PK] [FK] product_id (INT NOT NULL)
- quantity (INT NOT NULL)

> orders

- [PK] order_id (INT NOT NULL)
- [PK] [FK] user_id (INT NOT NULL)
- [PK] [FK] product_id (INT NOT NULL)
- quantity (INT NOT NULL)
- total_price (MONEY NOT NULL)
- shipping_addr (VARCHAR(255) NOT NULL)
- order_date (DATETIMEOFFSET_NOT_NULL)

Métodos/Módulos que usam queries

EmailHandler

sql to pdf

ProductManagement

- verify product exists
- verify id exists
- create_product
- remove_product
- update_product_name
- update_product_description
- update_product_price
- update_product_category
- update_product_quantity
- create_review
- set_cart_item
- register_order

Retrievers

- get_orders
- get all products
- verify_product_id_exists

- get_product_by_id
- get_product_reviews
- get_cart
- get_user_email

> TOTPHandler

- get_user_emergency_codes
- check_existence_emergency_codes
- store_emergency_codes
- update_totp
- get_totp_secret

UserManagement

- clear_reset_token
- get_user_by_reset_token
- set_reset_token_for_user
- search_user_by_username
- · search user by email
- validate login
- get id by username
- check id existence
- check order id existence
- create_user
- change_password
- update_username
- search_user_by_id
- update_email
- update_password
- get_username_by_id
- get_user_role
- get_orders_by_user_id
- get_user_data_by_id

Verifiers

- check_username_exists
- check_email_exists
- check_product_in_cart

Views

- add_item_to_cart
- remove_item_from_cart
- remove all items cart
- checkout