

DETI STORE

Base de Dados

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Introduction

DETI Store

Online merchandising store with database with two main views

User	Admin
<ul style="list-style-type: none">› Create Account with 2-Step Authentication› Edit account information› Add/Remove Items from Cart› Make orders of products on carts and manage them› Make reviews on products	<ul style="list-style-type: none">› Manage stock of products› Add, remove and edit products to the shop› Manage client's orders› See shop statistics

Non-functional Requirements

DETI Store

1. Security – Provide 2FA and Emergency codes for users, securing the authentication process and their accounts
2. Performance – Ensure smooth usage through quick response times
3. Reliability – Persist during and after issues, maintaining integrity of critical information
4. Ease of use – Intuitive and accessible interface

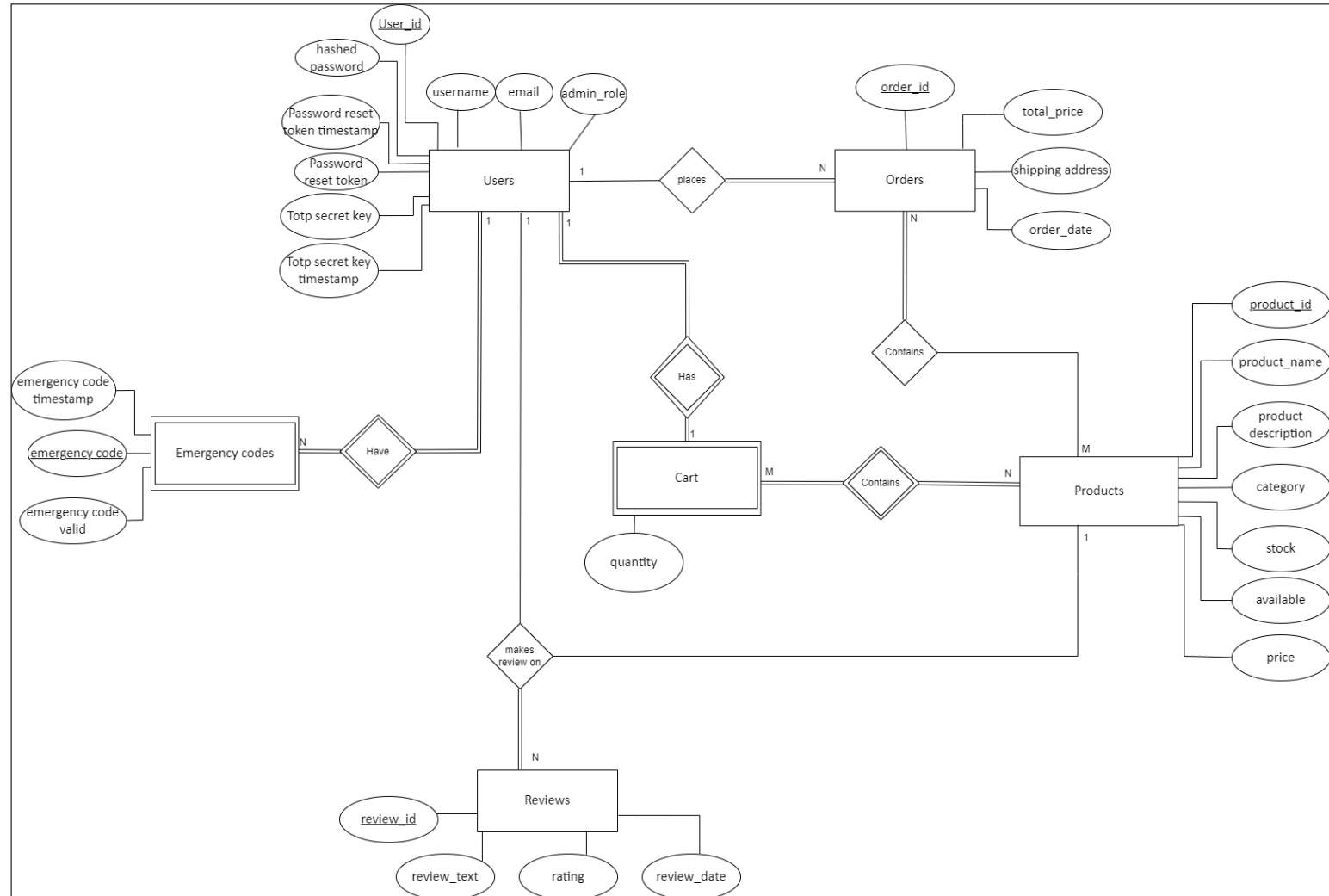
Entity-Relationship Diagram

DETI Store

Main Entities and relationships:

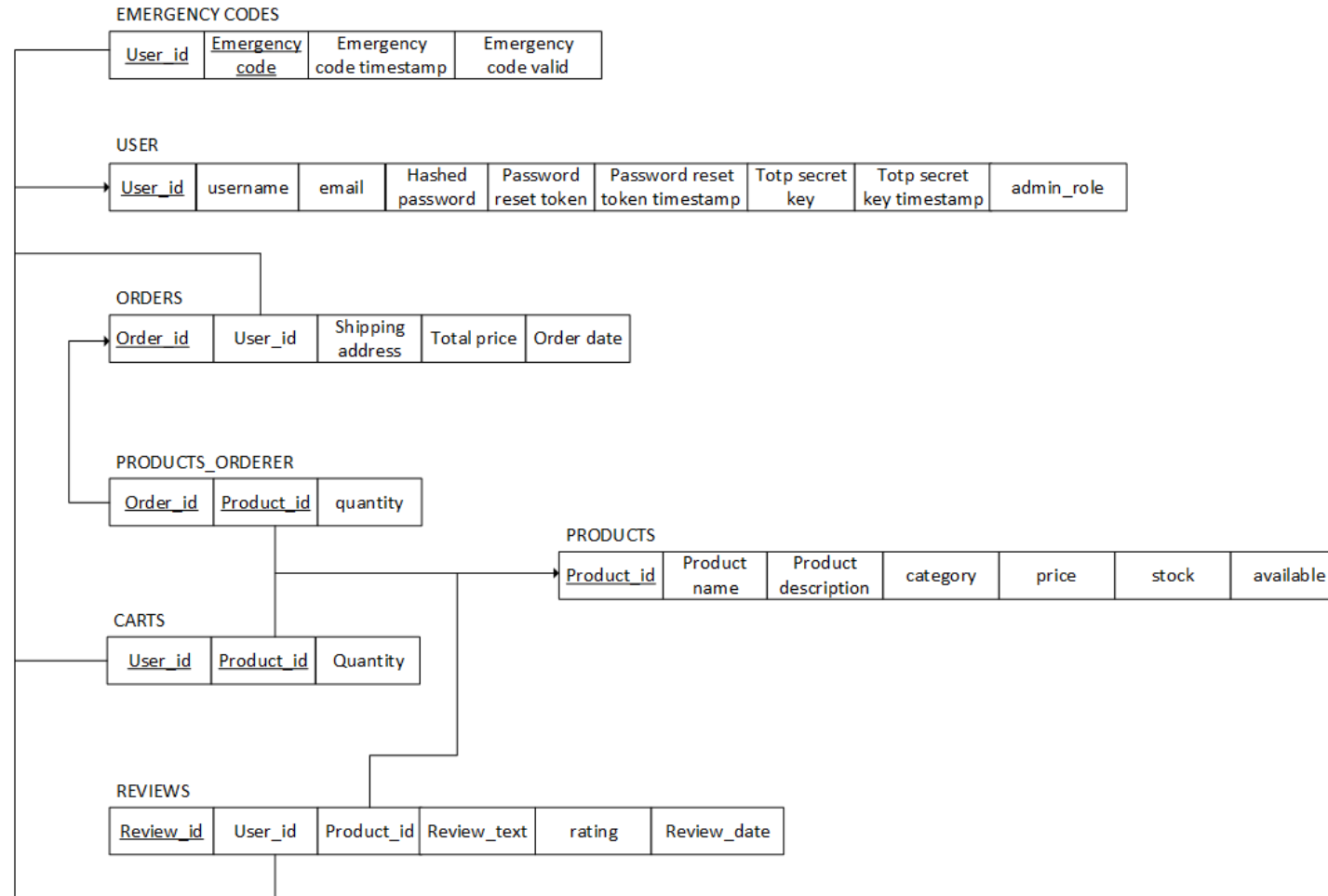
Users

- Have **Emergency Codes**
- Have **Shopping Cart**
 - ↳ Contains **Products**
- Have **Orders**
 - ↳ Contains **Products**
- Make **Reviews**
 - ↳ On **Products**



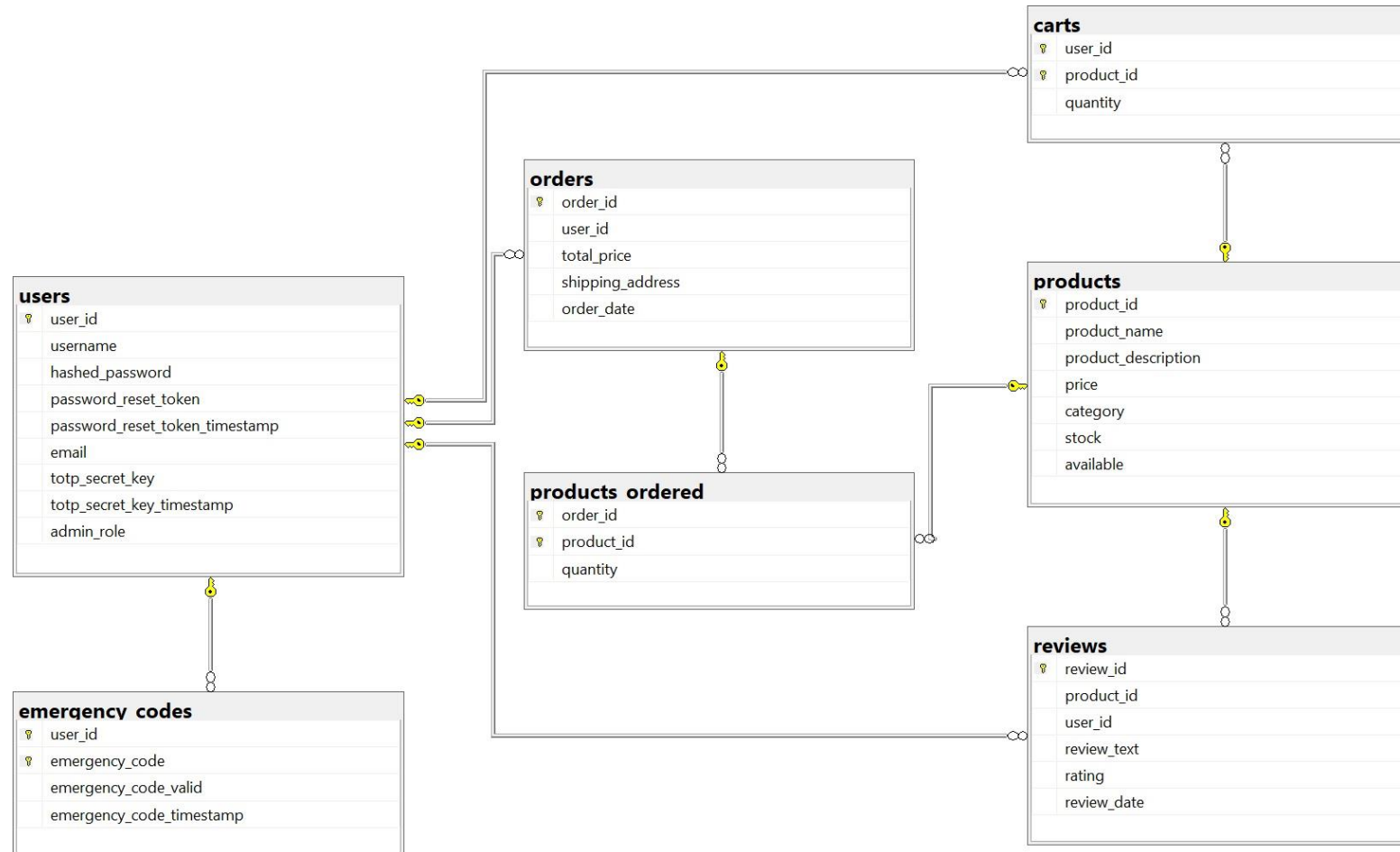
Relational Schema

DETI Store



Relational Schema - SGDB

DETI Store



Database Resources

DETI Store

View

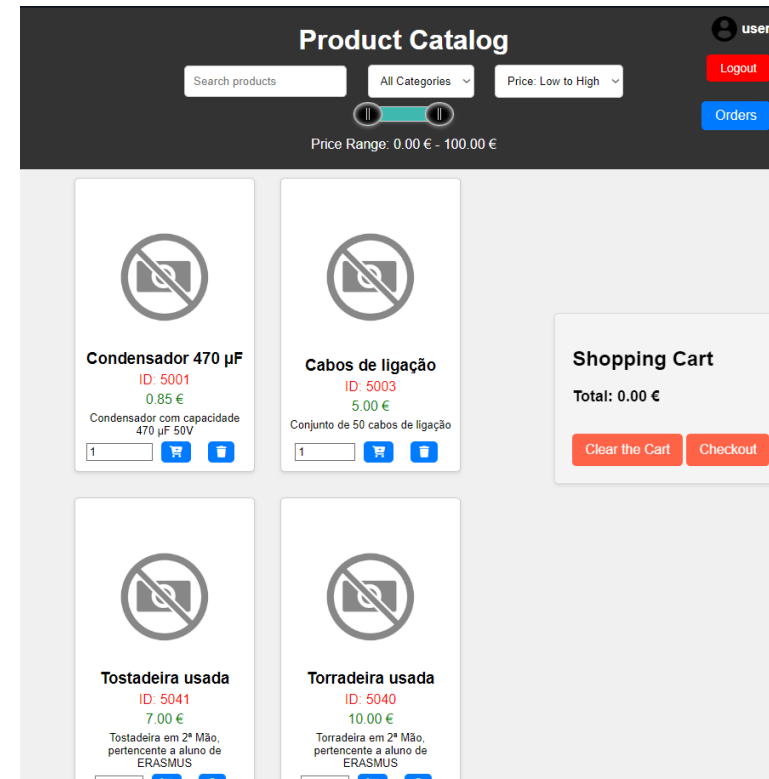
Available_Products
CompleteUserData

UDF

searchAvailableProducts
getProductById

Trigger

singleReviewPerUser
updateTotalOrderPrice
deleteZeroItemsCart



Database Resources

DETI Store

UDF

getMonthlySalesTable

Procedures

deleteUser
updateAccount
updateProduct

Admin Dashboard		Home	Inventory Management	Statistics	Logout	admin
Shop Statistics						
Sell's per month						
Date	Total Sales					
2024-02	966.70 €					
2024-03	742.00 €					
2024-04	771.70 €					
2024-05	586.00 €					

Admin Dashboard

Product Category

Search products

Price Range: 0.00 € - 100.00 €

Condensador com capacidade 470 µF 50V

ID: 5001

Stock: 1000

0.85 €

Torradeira usada

ID: 5040

Stock: 2

10.00 €

Edit Product

Id:

Name:

Price:

Description:

Category:

Choose Category

Number of Units:

Image:

Escolher ficheiro Nenhum ficheiro selecionado

Edit

Database Resources

DETI Store

In order to boost query's performance we also created several useful index's

Table	CLUSTERED INDEX'S (Primary Keys)	NON-CLUSTERED INDEX
USERS	user_id	username
PRODUCTS	product_id	product_name and category
ORDERS	order_id	user_id
PRODUCTS_ORDERED	(order_id, product_id)	None
CARTS	(user_id, product_id)	None
REVIEWS	review_id	product_id
EMERGENCY_CODES	(user_id, emergency_code)	None

Technology Used

DETI Store



Flask



HTML



JS



CSS



DEMO

DETI Store

Vídeo 