E-PHARMACY DATABASE MANAGEMENT SYSTEM

REVIEW REPORT Submitted by

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Prepared For

DATABASE SYSTEMS (CSE2004) – PROJECT COMPONENT

Submitted To

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Abstract

India being a highly vast market for innovation and several products but several studies still show that only 1% pharmacy stores have opted for online mode of doing business. (Ref: thepassage.cc article 748)

But seeing today's era of COVID-19 and continuous lockdown there is an immediate requirement for pharmacy shops to switch to online mode of conducting business. With several telecom & technological players providing affordable data packs and smartphones India since 2014 has seen rise in the use of smartphones in all demographic locations if the country.

Hence this project focusses on database schema and database creation for helping small pharmacy shops transition to online mode of conducting business and hereby expand their customer base with the large customers being available online.

Keywords

Pharmacy, Online shop, E-Retail, E-Pharmacy, Medicine, Ecommerce, COVID-19

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1. Introduction

The need for healthcare and pharmacy has increased ever since COVID-19 crisis. Especially during the times of frequent and long nationwide and local lock-down buying medical supplies has become a necessity to sustain at home but moving out of home is also unsafe during these times. Businesses have also been facing several tough times of doing business because of the discomfort provided by COVID-19 crisis. Hence I would like to introduce an E-pharmacy Database Management System built on PostgreSQL for several offline shops to continue their business online and for customers to find regular medical supplies.

2. PROJECT SCOPE

E-Pharmacy Database Management System provided the admin with the facility of

- a. Performing all the CRUD operations.
- b. Viewing total profit, commission per purchase of product
- c. Usage of arithmetic operations
- d. Filtering on the basis of different criteria
- e. Knowing several details of products sold on several dates
- f. Use of PL/SQL queries and several functions in PostgreSQL

3. KEY CONTACTS AND STAKEHOLDERS

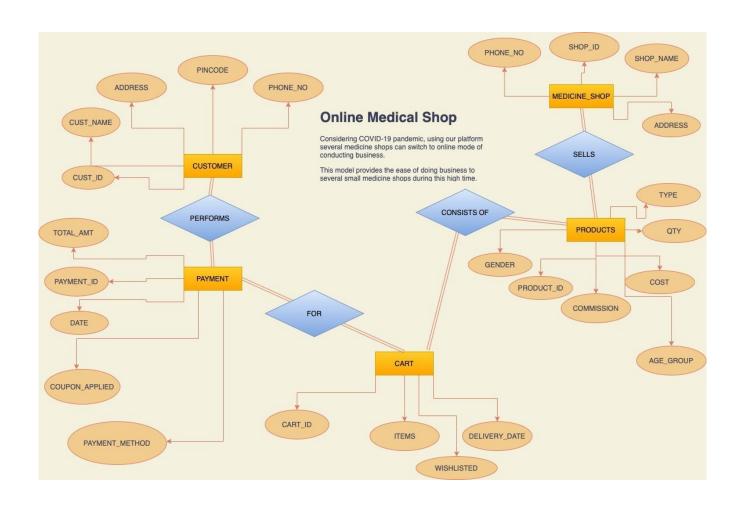
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4. PROJECT RESOURCE REQUIREMENTS

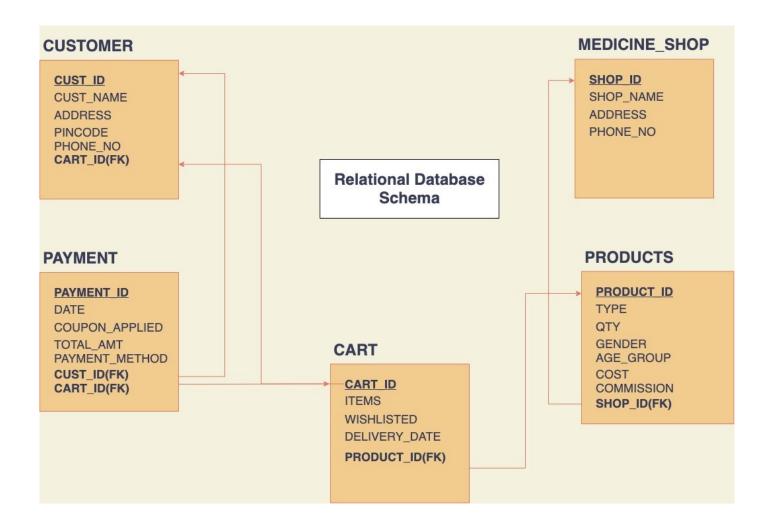
Software Resource Requirements

1. PostgreSQL

5. ER DIAGRAM



6. RELATIONAL DATABASE SCHEMA

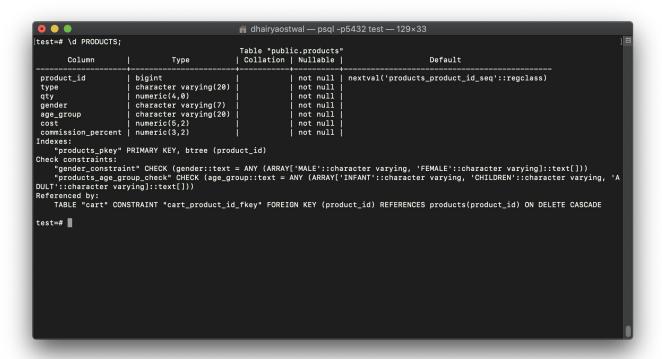


7. TABLES AND CONSTRAINTS

CUSTOMER TABLE

```
🏟 dhairyaostwal — psql -p5432 test — 129×33
[test=# \d CUSTOMER;
                                                   Table "public.customer"
| Collation | Nullable |
  Column
                               Type
                                                                                                               Default
               | bigint
| character varying(50)
| character varying(100)
| numeric(6,0)
| numeric(10,0)
| integer
                                                                       not null |
not null |
                                                                                       nextval('customer_cust_id_seq'::regclass)
 cust_id
cust_name
 address
pincode
                                                                       not null
phone_no
cart_id
Indexes:
                                                                       not null
"customer_pkey" PRIMARY KEY, btree (cust_id) Check constraints:
     "customer_phone_no_check" CHECK (phone_no > '5555555555'::bigint::numeric AND phone_no < '9999999999'::bigint::numeric)
"customer_pincode_check" CHECK (pincode > 100000::numeric AND pincode < 999999::numeric)
      "customer_cart_id_fkey" FOREIGN KEY (cart_id) REFERENCES cart(cart_id)
Referenced by:
TABLE "payment" CONSTRAINT "payment_cust_id_fkey" FOREIGN KEY (cust_id) REFERENCES customer(cust_id)
test=#
```

PRODUCTS TABLE



CART TABLE

```
旓 dhairyaostwal — psql -p5432 test — 105×33
[test=# \d CART
                                                 Table "public.cart"
ation | Nullable |
     Column
                                            Collation |
                                                                                               Default
                            Type
                      bigint
numeric(15,0)
integer
 cart_id
                                                                           nextval('cart_cart_id_seq'::regclass)
 items
wishlisted
                                                            not null
 delivery_date
product_id
                      date
                                                            not null
                      integer
Indexes:
      "cart_pkey" PRIMARY KEY, btree (cart_id)
Foreign-key constraints:
     "cart_product_id_fkey" FOREIGN KEY (product_id) REFERENCES products(product_id) ON DELETE CASCADE
Referenced by:

TABLE "customer" CONSTRAINT "customer_cart_id_fkey" FOREIGN KEY (cart_id) REFERENCES cart(cart_id)

TABLE "payment" CONSTRAINT "payment_cart_id_fkey" FOREIGN KEY (cart_id) REFERENCES cart(cart_id)
test=#
```

MEDICINE SHOP TABLE

PAYMENT TABLE

```
named dhairyaostwal — more - psql -p5432 test — 105×33
test=# \d PAYMENT;
                                                                 Table "public.payment"
| Collation | Nullable |
       Column
                                          Type
                                                                                                                                        Default
                                                                                     | not null | nextval('payment_payment_id_seq'::regcla
 payment_id
                          | bigint
 payment_date
coupon_applied
                             character varying(4)
                                                                                        not null
  total_amt
                             numeric(6,2)
 payment_method
cart_id
cust_id
                             character varying(50)
                                                                                        not null
                             integer
                            integer
      "payment_pkey" PRIMARY KEY, btree (payment_id)
Check constraints:
      "payment_coupon_applied_check" CHECK (coupon_applied::text = ANY (ARRAY['YES'::character varying, 'NO
"payment_coupon_applied_check" CHECK (coupon_applied::text = ANY (ARRAY[*Tess::character varying]::text[]))

"payment_payment_method_check" CHECK (payment_method::text = ANY (ARRAY[*CASH ON DELIVERY*::character varying, 'CREDIT/DEBIT CARD*::character varying, 'E-WALLETS*::character varying, 'NETBANKING*::character varying]::text[]))

"positive_amount" CHECK (total_amt > 0::numeric)
Foreign-key constraints:

"payment_cart_id_fkey" FOREIGN KEY (cart_id) REFERENCES cart(cart_id)

"payment_cust_id_fkey" FOREIGN KEY (cust_id) REFERENCES customer(cust_id)
(END)
```

8. WORK BREAK DOWN

Registration Number	Name	Work Assigned
19BCE2199	Dhairya Ostwal	Complete Project

9. REVIEW EVALUATION

COMPONENT	MARKS	MARKS AWARDED
Project Proposal With Individual Role	5	
Abstract Submission	5	
Review-1- Report	5	
Review-1-Presentation	5	
TOTAL	20 MARKS	