

Online Pharmacy Management System

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About



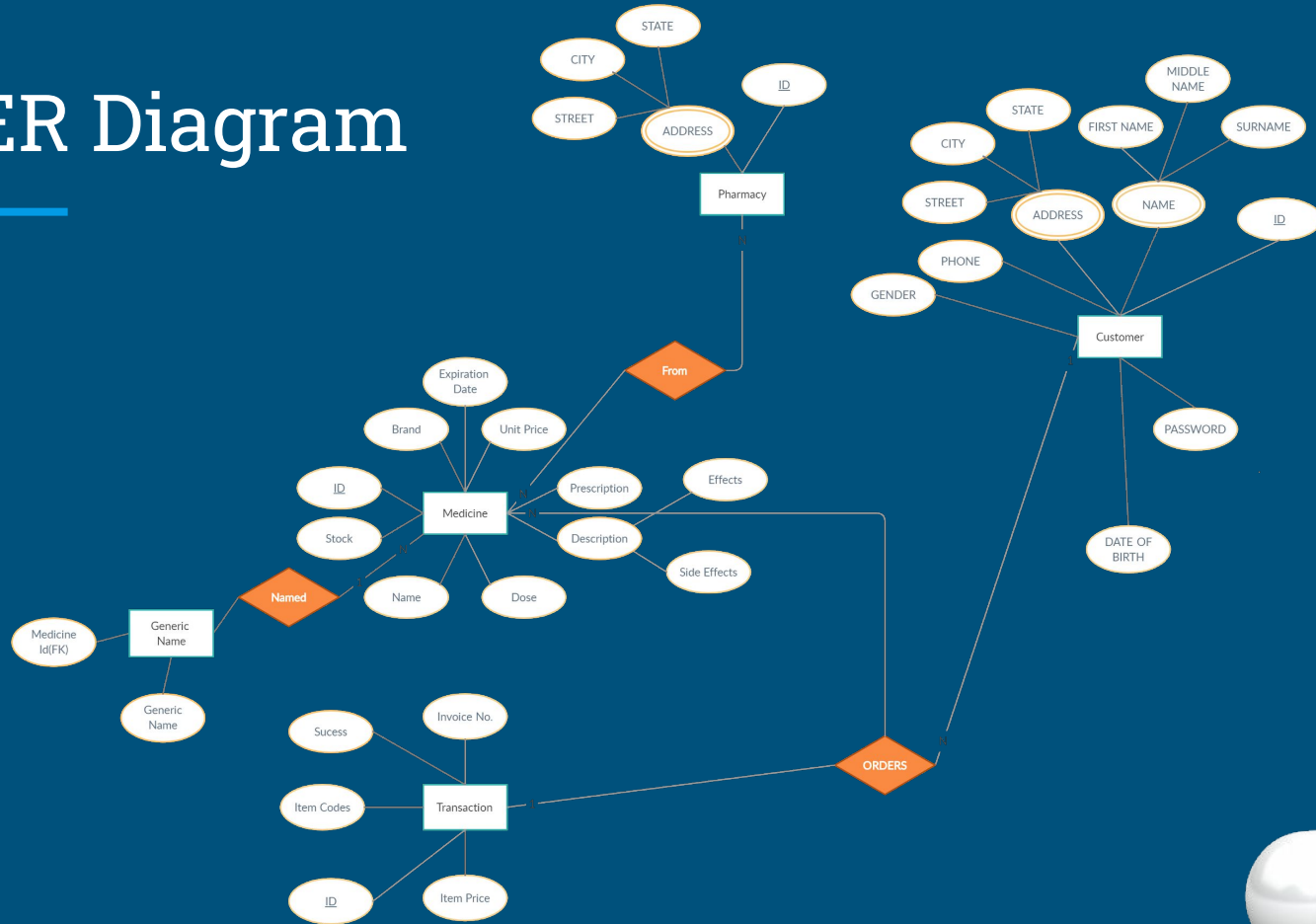
Title:

Online Pharmacy Management System

Problem Statement:

A database application software that can be used by a patient (customer) that keep records of all the user and their past transactions of their medicines along with the information of medicines & prescriptions, and many other features.

ER Diagram

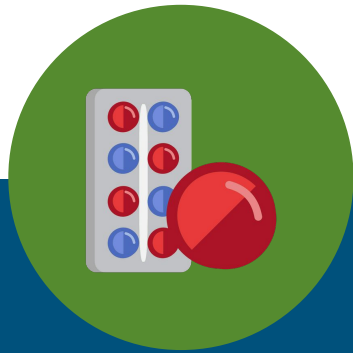


Main Tables



Customer

User ID, password and all other personal details like address, phone number etc.



Pharmacy

Pharmacy ID, Pharmacy Name, and other details like address



Medicine

Medicine ID, Name, Dosage, Effect, Side-Effects, and other details like Exp Date and generic name



Transaction

Transaction ID, Customer ID, Item Code, and whether the transaction was successful or failed

Customer Table

```
create table customer (  
  CID varchar(8) PRIMARY KEY check(CID like 'C%'),  
  first_name varchar(20) not null,  
  middle_name varchar(20),  
  sur_name varchar(20),  
  street varchar(20) not null,  
  city varchar(20) not null,  
  pincode int not null,  
  state varchar(20),  
  gender char(1) check( gender in ('M', 'F', 'O')),  
  phone decimal(10, 0) unique,  
  password varchar(15),  
  DOB date,  
  age decimal(4, 2)  
);
```

```
mysql> desc customer;
```

Field	Type	Null	Key	Default	Extra
CID	varchar(8)	NO	PRI	NULL	
first_name	varchar(20)	NO		NULL	
middle_name	varchar(20)	YES		NULL	
sur_name	varchar(20)	YES		NULL	
street	varchar(50)	NO		NULL	
city	varchar(20)	NO		NULL	
pincode	int	NO		NULL	
state	varchar(20)	YES		NULL	
gender	char(1)	YES		NULL	
phone	decimal(10,0)	YES	UNI	NULL	
password	varchar(15)	YES		NULL	
DOB	date	YES		NULL	
age	decimal(4,2)	YES		NULL	

```
13 rows in set (0.00 sec)
```

Generic Table

```
CREATE TABLE generic(  
    generic_id INT PRIMARY KEY,  
    generic_name VARCHAR(100)  
);
```

```
mysql> desc generic;
```

Field	Type	Null	Key	Default	Extra
generic_id	int	NO	PRI	NULL	
generic_name	varchar(100)	YES		NULL	

2 rows in set (0.00 sec)

Pharmacy Table

```
CREATE TABLE pharmacy (  
    PNAME VARCHAR(20),  
    STREET_NAME varchar(50),  
    CITY varchar(20),  
    PINCODE int,  
    STATE varchar(20),  
    PID varchar(10) PRIMARY KEY  
);
```

```
mysql> desc pharmacy;
```

Field	Type	Null	Key	Default	Extra
PNAME	varchar(20)	YES		NULL	
street_name	varchar(50)	YES		NULL	
CITY	varchar(20)	YES		NULL	
PINCODE	int	YES		NULL	
STATE	varchar(20)	YES		NULL	
PID	varchar(10)	NO	PRI	NULL	

6 rows in set (0.00 sec)

Medicine Table

```
CREATE TABLE medicine(  
  exp_date DATE,  
  unit_price DECIMAL(6, 2),  
  prescription TINYINT(1),  
  effect VARCHAR(100),  
  side_effect VARCHAR(100),  
  dose VARCHAR(100),  
  name VARCHAR(100),  
  brand VARCHAR(100),  
  stock INT,  
  id INT PRIMARY KEY,  
  generic_id INT,  
  pharmacy_id varchar(10),  
  FOREIGN KEY(generic_id) REFERENCES generic(generic_id),  
  FOREIGN KEY(pharmacy_id) REFERENCES pharmacy(PID)  
);
```

```
mysql> desc medicine;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type          | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| exp_date   | date          | YES  |     | NULL    |       |  
| unit_price | decimal(6,2)  | YES  |     | NULL    |       |  
| prescription | tinyint(1)    | YES  |     | NULL    |       |  
| effect     | varchar(100)  | YES  |     | NULL    |       |  
| side_effect | varchar(100)  | YES  |     | NULL    |       |  
| dose       | varchar(100)  | YES  |     | NULL    |       |  
| name       | varchar(100)  | YES  |     | NULL    |       |  
| brand      | varchar(100)  | YES  |     | NULL    |       |  
| stock      | int           | YES  |     | NULL    |       |  
| id         | int           | NO   | PRI | NULL    |       |  
| generic_id | int           | YES  | MUL | NULL    |       |  
| pharmacy_id | varchar(10)   | YES  | MUL | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
12 rows in set (1.58 sec)
```

Transaction Table

```
CREATE TABLE transact(  
  CID varchar(8),  
  INVOICE_NO VARCHAR(10),  
  SUCCESS TINYINT(1),  
  TID varchar(10) PRIMARY KEY,  
  ITEM_CODE INT,  
  FOREIGN KEY(ITEM_CODE) REFERENCES medicine(id),  
  FOREIGN KEY(CID) REFERENCES customer(CID)  
);
```

```
mysql> desc transact;
```

Field	Type	Null	Key	Default	Extra
CID	varchar(8)	YES	MUL	NULL	
INVOICE_NO	varchar(10)	YES		NULL	
SUCCESS	tinyint(1)	YES		NULL	
TID	varchar(10)	NO	PRI	NULL	
ITEM_CODE	int	YES	MUL	NULL	

5 rows in set (0.07 sec)

Customer Table

```
mysql> select * from customer;
```

CID	first_name	middle_name	sur_name	street	city	pincode	state	gender	phone	password	DOB	age
C0000001	Adwait	Ajay	Hegde	Sector 9 Mira Road	Thane	401107	Maharashtra	M	9833512267	password	2001-01-17	NULL
C0000002	Yash	NULL	Jagtap	Khau Gali, Malad	Mumbai	401005	Maharashtra	M	9735563567	passcode	2001-06-12	NULL
C0000003	Kashish	D	Jain	9-C20 Bandra	Mumbai	400011	Maharashtra	M	7833548139	wordpass	2001-03-22	NULL
C0000004	Jash	J	J	C-56, Charter Road	Mumbai	400057	Maharashtra	M	9898022267	pass	2000-10-20	NULL
C0000005	Payal	Naitk	Shah	N Nivas, Malad	Alappuzha	601078	Kerala	F	8833512267	passkey	2002-02-28	NULL
C0000006	Naitik	Amar	Shrivasthav	B9 Chedden Road	Mumbai	400023	Maharashtra	O	7865412267	keypass	2001-07-17	NULL

```
6 rows in set (0.10 sec)
```

Generic Table

```
mysql> select * from generic;
```

generic_id	generic_name
1	Paracetamol
2	Acetylsalicylic Acid

```
2 rows in set (0.01 sec)
```

Pharmacy Table

```
mysql> select * from pharmacy;
```

PNAME	street_name	CITY	PINCODE	STATE	PID
New Pharma	110, N C Road, Dispensary Road	Bangalore	560001	Karnataka	P0001
General Medicine	2, Warden Court, Gowalia Tank Rd	Mumbai	40001	Maharashtra	P0002

2 rows in set (0.09 sec)

Medicine Table

```
mysql> select * from medicine;
```

exp_date	unit_price	prescription	effect	side_effect	dose	name	brand	stock	id	generic_id	pharmacy_id
2030-04-01	200.00	1	Reduces Headache	NULL	2	Dolo 65	Sun Pharma	100	1	1	P0001
2024-07-05	180.00	1	Reduces Headache	NULL	2	Dolo 65	Sun Pharma	20	2	1	P0002
2022-02-05	100.00	0	Prevention of Heart Attack	Indigestion	1	Ecosprin	USV	100	3	2	P0001
2021-09-04	120.00	0	Prevention of Heart Attack	Indigestion	1	Ecosprin	USV	50	4	2	P0002
2021-10-10	300.00	0	Prevention of Heart Attack	NULL	1	Loprin	Unichem	150	5	2	P0002

5 rows in set (0.01 sec)

Transaction Table

```
mysql> select * from transact;
```

CID	INVOICE_NO	SUCCESS	TID	ITEM_CODE
C0000001	I0001	1	1	1
C0000003	I0002	1	2	3
C0000002	I0003	1	3	5
C0000003	I0004	1	4	2
C0000005	I0005	1	5	4

```
5 rows in set (0.06 sec)
```

Query

```
SELECT
INVOICE_NO,
    customer.first_name,
    medicine.name,
    medicine.unit_price
FROM transact
JOIN medicine
    ON transact.ITEM_CODE = medicine.id
JOIN customer
    ON transact.CID = customer.CID;
```

INVOICE_NO	first_name	name	unit_price
I0001	Adwait	Dolo 65	200.00
I0002	Kashish	Ecosprin	100.00
I0003	Yash	Loprin	300.00
I0004	Kashish	Dolo 65	180.00
I0005	Payal	Ecosprin	120.00

5 rows in set (0.00 sec)



Thank you!