

PES UNIVERSITY

Department of Computer Science and Engineering

BENGALURU, KARNATAKA, INDIA.

B. TECH. (CSE)

V SEMESTER

Aug. – Dec. 2023

UE21CS351A – DATABASE MANAGEMENT SYSTEM

PROJECT REPORT ON

PHARMACY MANAGEMENT

SUBMITTED BY

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INTRODUCTION:

Efficient and streamlined management of pharmacy operations is crucial in the dynamic landscape of healthcare. It ensures the timely and accurate dispensation of medications. Our pharmacy management project aims to optimize the entire pharmaceutical process. This is significant as the demand for quality patient care continues to rise. An integrated and user-friendly pharmacy management system becomes paramount in healthcare facilities.

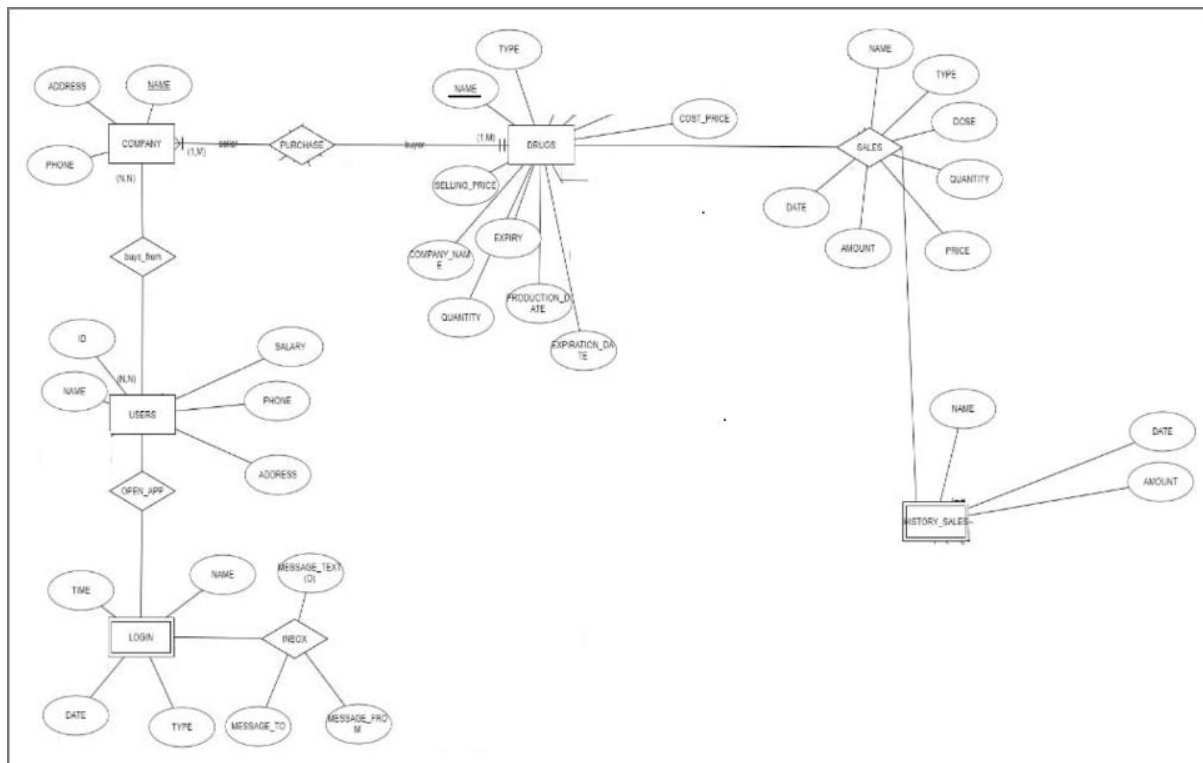
We recognized the challenges that pharmacies face in managing inventory, handling prescriptions, and maintaining regulatory compliance. Our objective is to provide a robust solution that not only automates routine tasks but also enhances the overall workflow. This will allow pharmacy staff to focus on delivering exceptional patient care.

Throughout this report, we will delve into the intricacies of our pharmacy management system. We will detail the goals, methodologies, and outcomes of the project. By adopting a holistic approach, we aim to meet and exceed the expectations of healthcare professionals, administrators, and most importantly, the individuals who rely on the seamless operation of pharmacies for their well-being.

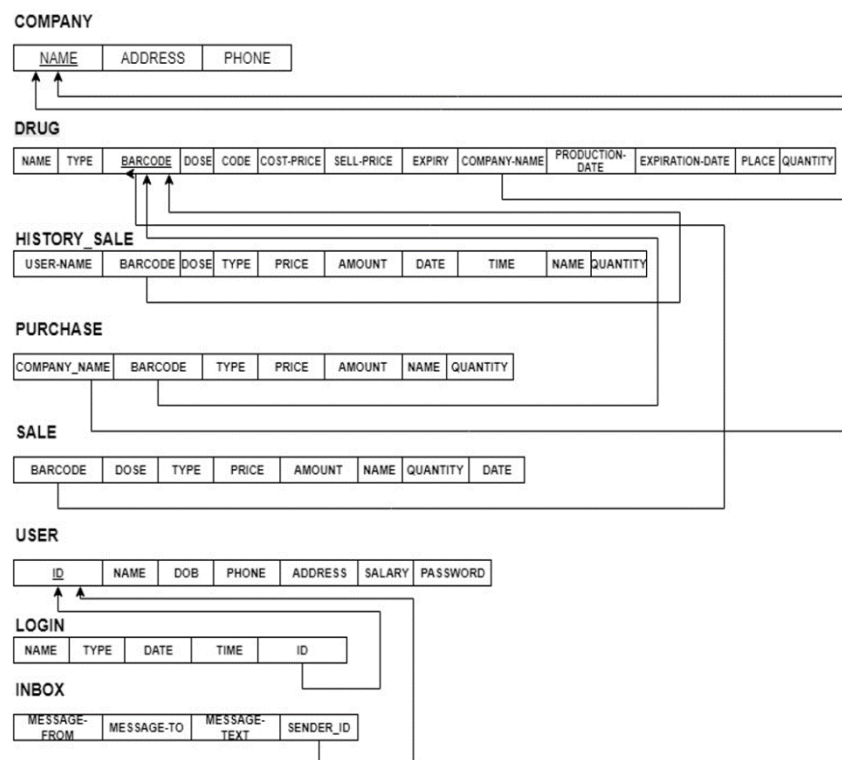
LIST OF PROGRAMMING LANGUAGES:

- I) PYTHON USING SREAMLIT
- II) MYSQL CONNECTOR LIBRARY
- III) MYSQL FOR BACKEND DATABASE.

E-R DIAGRAM:



RELATION SCHEMA:



DATABASE TABLES:

I)DRUGS:

```
mysql> desc drugs;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(100)	NO		NULL	
manufacturer	varchar(100)	YES		NULL	
expiration_date	date	YES		NULL	
unit_price	decimal(10,2)	NO		NULL	
last_modified	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED on update CURRENT_TIMESTAMP

6 rows in set (0.00 sec)

II)SALES

```
mysql> desc SALES;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
drug_id	int	YES	MUL	NULL	
quantity	int	NO		NULL	
total_amount	decimal(10,2)	NO		NULL	
sale_date	date	YES		NULL	

5 rows in set (0.00 sec)

iii)INVOICE

```
mysql> desc invoice;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
drug_id	int	YES	MUL	NULL	
quantity	int	NO		NULL	
price	decimal(10,2)	NO		NULL	

4 rows in set (0.00 sec)

iv)Users

```
mysql> desc users;
```

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
first_name	varchar(50)	NO		NULL	
last_name	varchar(50)	NO		NULL	
email	varchar(255)	NO		NULL	
phone_number	varchar(15)	YES		NULL	
address	varchar(255)	YES		NULL	

6 rows in set (0.01 sec)

v)login

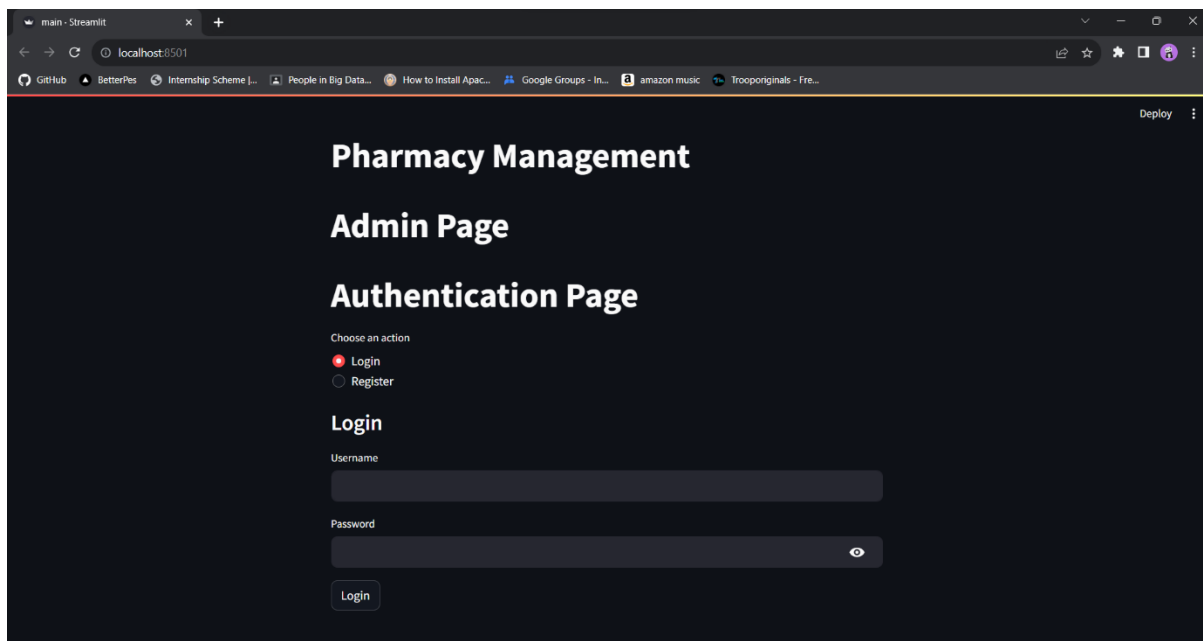
```
mysql> desc login;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id         | int           | NO   | PRI | NULL    | auto_increment |
| username   | varchar(255)  | NO   |     | NULL    |                |
| password   | varchar(255)  | NO   |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

vi)History sales

```
mysql> desc history_sales;
+-----+-----+-----+-----+-----+-----+
| Field          | Type          | Null | Key | Default | Extra          |
+-----+-----+-----+-----+-----+-----+
| id             | int           | NO   | PRI | NULL    | auto_increment |
| drug_id        | int           | YES  | MUL | NULL    |                |
| quantity_sold  | int           | NO   |     | NULL    |                |
| total_amount   | decimal(10,2) | NO   |     | NULL    |                |
| sale_date      | date          | YES  |     | NULL    |                |
| drug_name      | varchar(255)  | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

SCREEN SHOTS AND OPERATIONS OF PROJECT:

1)LOGIN AND REGISTRATION



main - Streamlit

localhost:8501

Pharmacy Management

Admin Page

Authentication Page

Choose an action

☒ Login

☐ Register

Login

Username

Password

Login

AFTER LOGGING IN

The screenshot shows a web browser window with the URL `localhost:8501`. The page is titled "Admin Page" and "Authentication Page". It features a "Choose an action" section with radio buttons for "Login" (selected) and "Register". Below this is a "Login" section with input fields for "Username" (containing "koushik") and "Password" (masked with "*****"). A "Login" button is present, and a green message box at the bottom states "Login successfull!".

2)INVOICE

The screenshot shows a web browser window with the URL `localhost:8501`. The page is titled "Pharmacy Management" and "Invoice Page". On the left, there is a sidebar with a "Logout" button, a "Select a page" dropdown menu (currently showing "Invoice"), an "Enter SQL Query" input field, and a "Run Query" button. The main content area has a "Select Drug" dropdown menu with "Dolo" selected. A list of drugs is displayed below the dropdown: "Dolo", "Paracetmol", "Vicks", "Saridon", "Stepsils", and "Tibitol".

AFTER ADDING INVOICE :

Pharmacy Management

Invoice Page

Select Drug

Saridon

Quantity

2

Price

10.00

Add to Invoice

Item added to invoice successfully!

CHECKING IN DATABASE:

```
mysql> select *from invoice;
+----+-----+-----+-----+
| id | drug_id | quantity | price |
+----+-----+-----+-----+
| 1  | 1       | 1        | 1.00  |
| 2  | 3       | 1        | 5.00  |
| 3  | 3       | 2        | 10.00 |
| 4  | 1       | 1        | 10.00 |
| 5  | 4       | 2        | 10.00 |
+----+-----+-----+-----+
5 rows in set (0.00 sec)
```

3)NOW MOVING ONTO THE USERS:

Users Page

First Name:

Last Name:

Email:

Phone Number:

Address:

[Add User](#)

User added successfully!

RESULT IN DATABASE:

```
mysql> select *from users;
+----+-----+-----+-----+-----+-----+
| id | first_name | last_name | email | phone_number | address |
+----+-----+-----+-----+-----+-----+
| 1 | R | Koushik | abc@gmail.com | 9596231515 | Pes |
| 2 | Preetham | PVS | preetam@gmail.com | 8952626264 | banglore |
| 3 | K | Mohan | mohan@gmail.com | 7896215565 | Hyderabad |
+----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```


4) ADDING DRUG/MEDICINE:

Drugs Page

Drug Name:

Manufacturer:

Expiration Date:

Unit Price:

- +

Add Drug

Drug added successfully!

RESULT IN DATABASE:

```
mysql> select *from drugs;
```

id	name	manufacturer	expiration_date	unit_price	last_modified
1	Dolo	Abbot	2025-11-06	4.00	2023-11-23 09:06:37
2	Paracetmol	idbs	2023-11-23	4.00	2023-11-23 09:06:37
3	Vicks	Uniliver	2025-11-24	10.00	2023-11-24 09:37:55
4	Saridon	Piramal	2025-11-04	10.00	2023-11-25 10:28:45
5	Stepsils	Abbot	2025-11-01	5.00	2023-11-25 10:54:16
6	Tibitol	PCI	2025-11-01	10.00	2023-11-25 12:09:00
7	okacet cold	cipla	2025-11-01	10.00	2023-11-25 20:32:44

7 rows in set (0.00 sec)

5) SALES:

Pharmacy Management

Sales Page

Select Drug

okacet cold

Quantity Sold

2

Total Amount

20.00

Record Sale

Sale recorded successfully!

RESULT IN HISTORY SALES AND DATABASE:

History Sales

id	drug_id	quantity_sold	total_amount	sale_date	drug_name
1	1	1	10	2023-11-25	Dolo
2	7	2	20	2023-11-25	okacet cold

```
mysql> select *from sales;
+----+-----+-----+-----+-----+
| id | drug_id | quantity | total_amount | sale_date |
+----+-----+-----+-----+-----+
| 1  | 1      | 1       | 5.00        | 2023-11-23 |
| 2  | 1      | 2       | 5.00        | 2023-11-24 |
| 3  | 3      | 1       | 10.00       | 2023-11-24 |
```

6) IN HISTORY SALES U CAN EDIT THE SALE OR DELETE

BEFORE EDITING TOTAL AMOUNT:

History Sales

id	drug_id	quantity_sold	total_amount	sale_date	drug_name
1	1	1	10	2023-11-25	Dolo
2	7	2	20	2023-11-25	okacet cold

AFTER EDITING THE TOTAL AMOUNT OF DOLO:

History Sales

id	drug_id	quantity_sold	total_amount	sale_date	drug_name
1	1	1	12	2023-11-25	Dolo
2	7	2	20	2023-11-25	okacet cold

Enter the ID of the sale you want to edit or delete:

Enter the new amount for editing:

BEFORE DELETING:

History Sales

id	drug_id	quantity_sold	total_amount	sale_date	drug_name
1	1	1	12	2023-11-25	Dolo
2	7	2	20	2023-11-25	okacet cold

AFTER DELETING:

History Sales

id	drug_id	quantity_sold	total_amount	sale_date	drug_name
1	1	1	12	2023-11-25	Dolo

AND ALSO, U CAN SEE THE QUERIES IN THE QUERY BOX:

Enter SQL Query

Run Query

AFTER ENTERING A QUERY:

Enter SQL Query

select *from users;

Run Query

Query Result:

```
▼ [
  0 : [
    0 : 1
    1 : "R"
    2 : "Koushik"
    3 : "abc@gmail.com"
    4 : "9596231515"
    5 : "PeS"
  ]
  1 : [
    0 : 2
    1 : "Preetham"
    2 : "PVS"
    3 : "preetam@gmail.com"
    4 : "8952626264"
    5 : "banglore"
  ]
]
```

U CAN DO THIS FOR EVERY TABLE PRESENT.

CONCLUSION:

the Pharmacy Management project has successfully addressed the complex challenges within the pharmaceutical domain by implementing a comprehensive and efficient system. Through meticulous planning, development, and implementation, we have created a robust platform that streamlines various pharmacy processes, enhances overall operational efficiency, and ensures better patient care.