

# PES UNIVERSITY, BANGALORE Department of Computer Science and Engineering B.TECH. (ECE) VI SEMESTER

**UE20CS301 – Database Management Systems (Minors)** 

## MINI PROJECT REPORT ON

"Courier Management System."

# **Faculty in charge**

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# **CONTENTS:**

SI No	Description	Page No:
1	INTRODUCTION	3
2	OBJECTIVE	4
3	METHODOLOGY	4
4	TOOLS USED	4
5	IMPLEMENTATION	5-21
6	RESULTS	22-29
7	CONCLUSION	30
8	REFERENCES	30

# **Introduction:**

The report aims to provide an overview and analysis of the Courier Management System (CMS), a software application designed to streamline and automate various processes involved in managing and tracking courier services. The CMS plays a crucial role in enhancing the efficiency, accuracy, and reliability of courier operations, enabling organizations to deliver packages and parcels in a timely manner.

This report will dive into the key functionalities, benefits, and challenges associated with the Courier Management System. It will explore the system's core components, such as customer management, parcel tracking, delivery person management, and administrative features. Additionally, the report will highlight the significance of CMS in improving customer satisfaction, optimizing delivery routes, and enhancing overall operational efficiency.

Furthermore, the report will examine the integration of the CMS with other essential systems, such as inventory management, billing, and reporting. It will explore how these integrations facilitate seamless coordination between different departments, leading to better resource utilization and cost-effective operations.

The conclusion of the report will provide a summary of the key findings and recommendations for organizations considering the implementation or enhancement of a Courier Management System. It will emphasize the importance of thorough planning, stakeholder engagement, and continuous system evaluation to maximize the benefits of CMS implementation.

Overall, this report aims to provide valuable insights into the Courier Management System, its impact on courier operations, and the potential for future advancements in the industry. It serves as a comprehensive guide for decision-makers, IT professionals, and stakeholders involved in courier services seeking to optimize their operations and deliver exceptional customer experiences.

# **Objective:**

- To create database for Courier Management System(CMS).
- To perform operations on the Database created.
- To connect the backend Database of Courier Management System(CMS) to the frontend using Streamlit.

# **Methodology:**

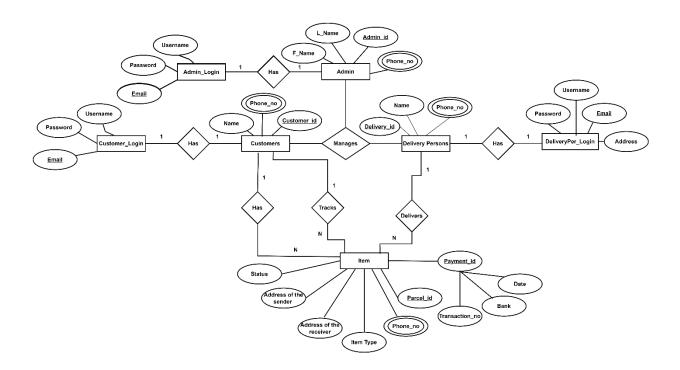
- Create a ER Diagram.
- Convert the created ER Diagram into Relationship Schema.
- Using the Relationship schema, First create the database.
- Create a Database with the Tables taking reference from the Relationship schema.
- Once the Tables are created with the required attributes now populate it with some sample data.
- Perform the required operations to obtain the correct result and operations to retrieve data from the Tables.
- Once the Database gives proper result for the queries now integrate it with the Frontend.
- Connect the database created with the Frontend.
- Test the Frontend and Backend thoroughly .

# **Tools Used:**

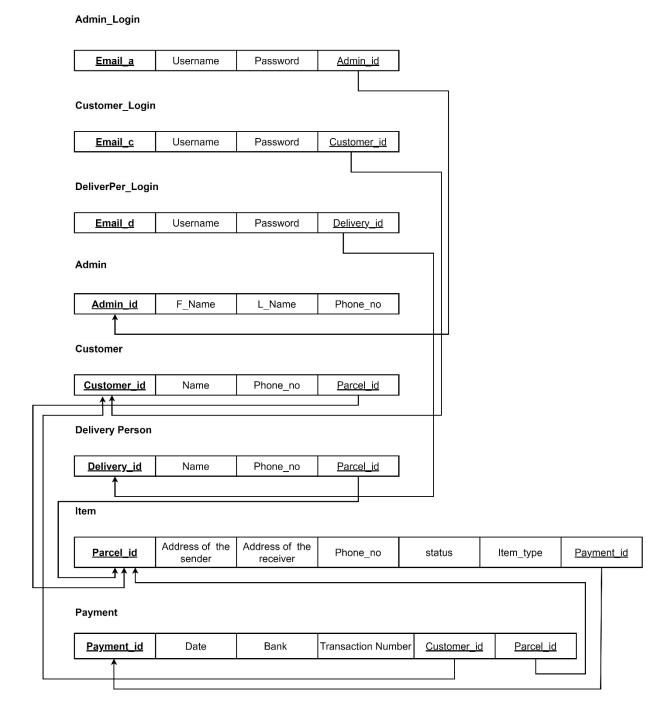
- For ER Diagram and Relationship Schema Diagrams.net
- For Database Creation and to perform Operations MySQL
- For Connecting Backend to Frontend Streamlit Library
- Python IDE PyCharm Community Edition

# **Implementation:**

• ER diagram:



## • Relationship schema:



• Database Creation and Tables:

SQL Queries for Database creation:

#### **CREATE DATABASE cms**;

**SQL** Queries for Tables creation:

CREATE TABLE Admin (F\_Name VARCHAR(255) NOT NULL ,L\_Name VARCHAR(255) NOT NULL, Phone\_no VARCHAR(10) NOT NULL ,Admin\_id INT NOT NULL,PRIMARY KEY(Admin\_id));

CREATE TABLE Item (Parcel\_id INT PRIMARY KEY, Sender\_Address VARCHAR(255) NOT NULL, Receiver\_Address VARCHAR(255) NOT NULL, Phone\_no VARCHAR(20) NOT NULL, Status VARCHAR(255), Item\_type VARCHAR(255), Payment\_id INT, FOREIGN KEY (Payment\_id) REFERENCES Payment(Payment\_id));

CREATE TABLE Customer (Name VARCHAR(255) NOT NULL, Phone\_no VARCHAR(10) NOT NULL, Customer\_id INT NOT NULL, Parcel\_id INT ,PRIMARY KEY(Customer\_id),FOREIGN KEY (Parcel\_id) REFERENCES item(Parcel\_id));

CREATE TABLE Payment (Payment\_id INT NOT NULL Date DATE NOT NULL,Bank VARCHAR(255), Transaction\_Number VARCHAR(255), Customer\_id INT, Parcel\_id INT, PRIMARY KEY(Payment\_id), FOREIGN KEY (Customer\_id) REFERENCES Customer(Customer\_id), FOREIGN KEY (Parcel id) REFERENCES Item(Parcel id));

CREATE TABLE Delivery\_Person (Name VARCHAR(255) NOT NULL, Phone\_no VARCHAR(10) NOT NULL, Delivery\_id INT NOT NULL, Parcel\_id INT,PRIMARY KEY(Delivery\_id), FOREIGN KEY (Parcel\_id) REFERENCES item(Parcel\_id));

CREATE TABLE Admin\_Login (Email\_a VARCHAR(255) NOT NULL,Username VARCHAR(255) NOT NULL,Password VARCHAR(255) NOT NULL,PRIMARY KEY(Email\_a),Admin\_id INT NOT NULL,FOREIGN KEY (Admin\_id) REFERENCES admin(Admin\_id));

CREATE TABLE Customer\_Login (Email\_c VARCHAR(255) NOT NULL,Username VARCHAR(255) NOT NULL,Password VARCHAR(255) NOT NULL,PRIMARY KEY(Email\_c),Customer\_id INT NOT NULL,FOREIGN KEY (Customer\_id) REFERENCES customer(Customer\_id));

CREATE TABLE DeliverPer\_Login (Email\_d VARCHAR(255) NOT NULL, Username VARCHAR(255) NOT NULL, Password VARCHAR(255) NOT NULL, PRIMARY KEY(Email\_d), Delivery\_id INT NOT NULL, FOREIGN KEY (Delivery\_id) REFERENCES delivery\_person(Delivery\_id));

#### Populate the Tables with the sample data:

```
INSERT INTO admin (F_Name, L_Name, Phone_no, Admin_id)
VALUES ('John', 'Doe', '1234567890', 10001),
('Jane', 'Smith', '2345678901', 10002),
('Michael', 'Johnson', '3456789012', 10003);
INSERT INTO admin_Login (Email_a, Username, Password, Admin_id)
VALUES ('admin1@example.com', 'admin1', 'password1', '10001'),
('admin2@example.com', 'admin2', 'password2', '10002'),
('admin3@example.com', 'admin3', 'password3', '10003');
INSERT INTO delivery_person (Name, Phone_no, Delivery_id, Parcel_id)
VALUES
('Delivery Person 1', '1234567890', 50001, 1001),
('Delivery Person 2', '2345678901', 50002, 1002),
('Delivery Person 3', '3456789012', 50003, 1003),
('Delivery Person 4', '4567890123', 50004, 1004),
('Delivery Person 5', '5678901234', 50005, 1005),
('Delivery Person 6', '6789012345', 50006, 1006),
('Delivery Person 7', '7890123456', 50007, 1007),
('Delivery Person 8', '8901234567', 50008, 1008),
('Delivery Person 9', '9012345678', 50009, 1009),
('Delivery Person 10', '0123456789', 50010, 1010),
('Delivery Person 11', '1122334455', 50011, 1011),
('Delivery Person 12', '2233445566', 50012, 1012),
('Delivery Person 13', '3344556677', 50013, 1013),
('Delivery Person 14', '4455667788', 50014, 1014),
('Delivery Person 15', '5566778899', 50015, 1015);
INSERT INTO customer_login (Email_c, Username, Password, Customer_id)
VALUES
('customer1@example.com', 'customer1', 'password1', 10001),
('customer2@example.com', 'customer2', 'password2', 10002),
('customer3@example.com', 'customer3', 'password3', 10003),
('customer4@example.com', 'customer4', 'password4', 10004),
('customer5@example.com', 'customer5', 'password5', 10005),
('customer6@example.com', 'customer6', 'password6', 10006),
('customer7@example.com', 'customer7', 'password7', 10007),
('customer8@example.com', 'customer8', 'password8', 10008),
('customer9@example.com', 'customer9', 'password9', 10009),
('customer10@example.com', 'customer10', 'password10', 10010),
('customer11@example.com', 'customer11', 'password11', 10011),
('customer12@example.com', 'customer12', 'password12', 10012),
('customer13@example.com', 'customer13', 'password13', 10013),
('customer14@example.com', 'customer14', 'password14', 10014),
```

```
INSERT INTO item (Parcel_id, Sender_Address, Receiver_Address, Phone_no, Status,
Item type) VALUES
(1001, '123 Elm St', '456 Main St', '5678901234', 'In Transit', 'Electronics'),
(1002, '456 Main St', '789 Oak St', '5678901234', 'Delivered', 'Clothing'),
(1003, '789 Oak St', '123 Elm St', '5678901234', 'In Transit', 'Books'),
(1004, '123 Elm St', '456 Main St', '5678901234', 'In Transit', 'Furniture'),
(1005, '456 Main St', '789 Oak St', '5678901234', 'Delivered', 'Electronics'),
(1006, '789 Oak St', '123 Elm St', '5678901234', 'In Transit', 'Clothing'),
(1007, '123 Elm St', '456 Main St', '5678901234', 'In Transit', 'Books'),
(1008, '456 Main St', '789 Oak St', '5678901234', 'Delivered', 'Furniture'),
(1009, '789 Oak St', '123 Elm St', '5678901234', 'In Transit', 'Electronics'),
(1010, '123 Elm St', '456 Main St', '5678901234', 'In Transit', 'Clothing'),
(1011, '456 Main St', '789 Oak St', '5678901234', 'Delivered', 'Books'),
(1012, '789 Oak St', '123 Elm St', '5678901234', 'In Transit', 'Furniture'),
(1013, '123 Elm St', '456 Main St', '5678901234', 'In Transit', 'Electronics'),
(1014, '456 Main St', '789 Oak St', '5678901234', 'Delivered', 'Clothing'),
(1015, '789 Oak St', '123 Elm St', '5678901234', 'In Transit', 'Books');
INSERT INTO customer (Name, Phone no, Customer id, Parcel id)
VALUES
('John Doe', '1234567890', 10001, 1001),
('Jane Smith', '2345678901', 10002, 1002),
('Michael Johnson', '3456789012', 10003, 1003),
('Emily Davis', '4567890123', 10004, 1004),
('David Anderson', '5678901234', 10005, 1005),
('John Doe', '6789012345', 10006, 1006),
('Jane Smith', '7890123456', 10007, 1007),
('Michael Johnson', '8901234567', 10008, 1008),
('Emily Davis', '9012345678', 10009, 1009),
('David Anderson', '0123456789', 10010, 1010),
('John Doe', '1234567890', 10011, 1011),
('Jane Smith', '2345678901', 10012, 1012),
('Michael Johnson', '3456789012', 10013, 1013),
('Emily Davis', '4567890123', 10014, 1014).
('David Anderson', '5678901234', 10015, 1015);
INSERT INTO payment (Payment id, Date, Bank, Transaction Number, Customer id,
Parcel id) VALUES
(10001, '2023-05-01', 'Bank A', '1234567890', 10001, 1001),
(10002, '2023-05-02', 'Bank B', '2345678901', 10002, 1002),
(10003, '2023-05-03', 'Bank C', '3456789012', 10003, 1003),
(10004, '2023-05-04', 'Bank D', '4567890123', 10004, 1004),
(10005, '2023-05-05', 'Bank E', '5678901234', 10005, 1005),
(10006, '2023-05-06', 'Bank F', '6789012345', 10006, 1006),
```

```
(10007, '2023-05-07', 'Bank G', '7890123456', 10007, 1007),
(10008, '2023-05-08', 'Bank H', '8901234567', 10008, 1008),
(10009, '2023-05-09', 'Bank I', '9012345678', 10009, 1009),
(10010, '2023-05-10', 'Bank J', '0123456789', 10010, 1010),
(10011, '2023-05-11', 'Bank K', '1234567890', 10011, 1011),
(10012, '2023-05-12', 'Bank L', '2345678901', 10012, 1012),
(10013, '2023-05-13', 'Bank M', '3456789012', 10013, 1013),
(10014, '2023-05-14', 'Bank N', '4567890123', 10014, 1014),
(10015, '2023-05-15', 'Bank O', '5678901234', 10015, 1015);
INSERT INTO customer login (Email c, Username, Password, Customer id)
VALUES
('customer1@example.com', 'customer1', 'password1', 10001),
('customer2@example.com', 'customer2', 'password2', 10002),
('customer3@example.com', 'customer3', 'password3', 10003),
('customer4@example.com', 'customer4', 'password4', 10004),
('customer5@example.com', 'customer5', 'password5', 10005),
('customer6@example.com', 'customer6', 'password6', 10006),
('customer7@example.com', 'customer7', 'password7', 10007),
('customer8@example.com', 'customer8', 'password8', 10008),
('customer9@example.com', 'customer9', 'password9', 10009),
('customer10@example.com', 'customer10', 'password10', 10010),
('customer11@example.com', 'customer11', 'password11', 10011),
('customer12@example.com', 'customer12', 'password12', 10012),
('customer13@example.com', 'customer13', 'password13', 10013),
('customer14@example.com', 'customer14', 'password14', 10014),
('customer15@example.com', 'customer15', 'password15', 10015);
INSERT INTO delivery_person (Name, Phone_no, Delivery_id, Parcel_id) VALUES
('Delivery Person 1', '1234567890', 50001, 1001),
('Delivery Person 2', '2345678901', 50002, 1002),
('Delivery Person 3', '3456789012', 50003, 1003),
('Delivery Person 4', '4567890123', 50004, 1004),
('Delivery Person 5', '5678901234', 50005, 1005),
('Delivery Person 6', '6789012345', 50006, 1006),
('Delivery Person 7', '7890123456', 50007, 1007),
('Delivery Person 8', '8901234567', 50008, 1008),
('Delivery Person 9', '9012345678', 50009, 1009),
('Delivery Person 10', '0123456789', 50010, 1010),
('Delivery Person 11', '1122334455', 50011, 1011),
('Delivery Person 12', '2233445566', 50012, 1012),
('Delivery Person 13', '3344556677', 50013, 1013),
('Delivery Person 14', '4455667788', 50014, 1014),
('Delivery Person 15', '5566778899', 50015, 1015);
INSERT INTO deliverper login (Email d, Username, Password, Delivery id)
```

10 | Page

```
VALUES
```

```
('delivery1@example.com', 'delivery1', 'password1', 50001), ('delivery2@example.com', 'delivery2', 'password2', 50002), ('delivery3@example.com', 'delivery3', 'password3', 50003), ('delivery4@example.com', 'delivery4', 'password4', 50004), ('delivery5@example.com', 'delivery5', 'password5', 50005), ('delivery6@example.com', 'delivery6', 'password6', 50006), ('delivery7@example.com', 'delivery7', 'password7', 50007), ('delivery8@example.com', 'delivery8', 'password8', 50008), ('delivery9@example.com', 'delivery9', 'password9', 50009), ('delivery10@example.com', 'delivery10', 'password10', 50010), ('delivery11@example.com', 'delivery11', 'password11', 50011), ('delivery12@example.com', 'delivery12', 'password12', 50012), ('delivery14@example.com', 'delivery14', 'password14', 50014), ('delivery15@example.com', 'delivery15', 'password15', 50015);
```

• Retrieving required details and performing required operations:

```
ALTER TABLE item

ADD Delivery_id INT,

ADD FOREIGN KEY (Delivery_id) REFERENCES delivery_person(Delivery_id);

UPDATE item AS i

JOIN delivery_person AS DP ON i.Parcel_id = DP.Parcel_id

SET i.Delivery_id = DP.Delivery_id;
```

#### Retrieve parcel\_id and customer\_id of all the parcel's that got DELIVERED.

```
SELECT I.Parcel_id, C.Customer_id
FROM Item AS I
JOIN Customer AS C ON I.Parcel_id = C.Parcel_id
WHERE I.Status = 'DELIVERED';
```

#### Retervie Customer details of the parcel's which are "IN transit"

```
SELECT C.*
FROM Customer AS C
JOIN Item AS I ON I.Parcel_id = C.Parcel_id
WHERE I.Status = 'IN TRANSIT';
```

# Retrieve the payment and customer details of the parcel's whose payment is done between date 2023-05-01 to 2023-05-05

```
SELECT P.*, C.*
FROM Payment AS P
JOIN Customer AS C ON P.Customer_id = C.Customer_id
WHERE P.Date BETWEEN '2023-05-01' AND '2023-05-05';
```

#### Retrieve the name and phone\_no the delivery person who delivered the parcels

```
SELECT DP.Name, DP.Phone_no, I.Status
FROM item AS I
NATURAL JOIN delivery_person AS DP
WHERE I.Status = 'DELIVERED' AND I.Parcel_id = DP.Parcel_id;
```

#### Retrieve the name and the Phone\_no of the delivery person who delivered the parcel with parcel\_id = 1002

```
SELECT DP.Name, DP.Phone_no
FROM item AS I
INNER JOIN delivery_person AS DP ON I.Parcel_id = DP.Parcel_id
WHERE I.Parcel_id = 1002
AND I.Status = 'DELIVERED';
```

# Retrive all delivery persons list the Name, Phone\_no and also the Parcel\_id if he has made any delivery

```
SELECT DP.Name, DP.Phone_no, I.Parcel_id
FROM delivery_person AS DP
LEFT JOIN item AS I ON DP.Parcel_id = I.Parcel_id
WHERE I.Status = 'DELIVERED' OR I.Status IS NULL;
```

#### Retrieve the details of parcel which is having maximum price.

```
ALTER TABLE payment
ADD price DECIMAL(10,2) NOT NULL;
UPDATE payment SET price = ROUND(RAND() * (5000 - 100) + 100, 2)
LIMIT 15;
SELECT I.Parcel_id, I.Sender_Address, I.Receiver_Address, I.Phone_no, I.Status,
I.Item_type, P.Payment_id, P.Date, P.Bank, P.Transaction_Number, P.Customer_id,
P.price
FROM item AS I
INNER JOIN payment AS P ON I.Parcel_id = P.Parcel_id
WHERE P.price = (SELECT MAX(price) FROM Payment);
```

#### Retrieve parcel and customer details whose parcel is not yet delivered.

SELECT I.Parcel\_id, I.Sender\_Address, I.Receiver\_Address, I.Phone\_no, I.Status, I.Item\_type, C.Name AS Customer\_Name, C.Phone\_no AS Customer\_Phone\_no FROM item AS I
INNER JOIN customer AS C ON I.Parcel\_id = C.Parcel\_id
WHERE I.Status <> 'DELIVERED';

#### Find the average price in the payments table

SELECT AVG(price) AS Average\_Price FROM payment;

#### Retrieve the count of the parcels which are delivered and which are yet to be delivered.

**SELECT** 

COUNT(CASE WHEN Status = 'DELIVERED' THEN Parcel\_id END) AS Delivered\_Count,

COUNT(CASE WHEN Status <> 'DELIVERED' THEN Parcel\_id END) AS Undelivered\_Count

FROM item;

#### Retrieve the details of parcel which is having minimum price.

SELECT I.Parcel\_id, I.Sender\_Address, I.Receiver\_Address, I.Phone\_no, I.Status, I.Item\_type, P.Payment\_id, P.Date, P.Bank, P.Transaction\_Number, P.Customer\_id, P.price

FROM item AS I

INNER JOIN payment AS P ON I.Parcel\_id = P.Parcel\_id

WHERE P.price = (SELECT MIN(price) FROM Payment);

#### Find customers details who has the same item type 'Electronics' and 'Clothing'

SELECT C.Name, C.Phone no

FROM customer AS C

INNER JOIN item AS I ON C.Parcel\_id = I.Parcel\_id

WHERE I.Item\_type = 'Electronics'

**UNION** 

SELECT C.Name, C.Phone\_no

FROM customer AS C

INNER JOIN item AS I ON C.Parcel id = I.Parcel id

WHERE I.Item\_type = 'Clothing';

```
Find customer details whose name is other than John Doe and status is "In transit"
       SELECT C.Name, C.Phone no
      FROM customer AS C
      INNER JOIN item AS I ON C.Parcel_id = I.Parcel_id
       WHERE C.Name <> 'John Doe'
      INTERSECT
       SELECT C.Name, C.Phone no
      FROM customer AS C
      INNER JOIN item AS I ON C.Parcel_id = I.Parcel_id
       WHERE I.Status = 'In transit';
Create a function to know the customer details of whose payment date is after 10-05-2023
and before 15-05-2023
      DELIMITER $$
      CREATE PROCEDURE GetCustomerDetailsByPaymentDate()
      BEGIN
         SELECT C.Name, C.Phone no
         FROM customer AS C
         INNER JOIN payment AS P ON C.Customer_id = P.Customer_id
         WHERE P.Date > '2023-05-10' AND P.Date < '2023-05-15';
      END;$$
      DELIMITER;
       CALL GetCustomerDetailsByPaymentDate();
Write a procedure to retrive the details of the Customer and the parcel. Also display the
details of the delivery person who delivered the parcel.
      DELIMITER $$
      CREATE PROCEDURE GetCustomerParcelDeliveryDetails()
      BEGIN
         SELECT C.Name AS CustomerName, C.Phone no AS CustomerPhone,
            I.Parcel id, I.Sender Address, I.Receiver Address,
            DP.Name AS DeliveryPersonName, DP.Phone_no AS DeliveryPersonPhone
         FROM customer AS C
         INNER JOIN item AS I ON C.Parcel_id = I.Parcel_id
         INNER JOIN delivery_person AS DP ON I.Parcel_id = DP.Parcel_id;
      END;$$
      DELIMITER;
```

**CALL GetCustomerParcelDeliveryDetails()**;

# Create a trigger to stop updating the admin table and to show an error message and if the number of admins is greater than 3

```
DELIMITER $$
      CREATE TRIGGER prevent_insert_admin
      BEFORE INSERT ON admin
      FOR EACH ROW
      BEGIN
        DECLARE admin_count INT;
        SELECT COUNT(*) INTO admin_count FROM admin;
        IF admin_count >= 3 THEN
          SIGNAL SQLSTATE '45000'
          SET MESSAGE_TEXT = 'Cannot insert into Admin table. Maximum admin count
      reached.';
        END IF;
      END;$$
      DELIMITER:
      INSERT INTO admin (F_Name, L_Name, Phone_no, Admin_id)
      VALUES ('John', 'Seena', '9988776665', 10004);
Create a trigger to add payment information to the backup payment table when we try to
delete some information from the payment table
      CREATE TABLE backup payment (Payment id INT NOT NULL, Date DATE NOT
      NULL, Bank VARCHAR(255), Transaction_Number VARCHAR(255), Customer_id INT,
      Parcel_id INT,PRIMARY KEY (Payment_id));
      DELIMITER $$
      CREATE TRIGGER backup payment delete trigger
      AFTER DELETE ON Payment
      FOR EACH ROW
      BEGIN
        INSERT INTO backup_payment (Payment_id, Date, Bank, Transaction_Number,
      Customer_id, Parcel_id)
         VALUES (OLD.Payment_id, OLD.Date, OLD.Bank, OLD.Transaction_Number,
      OLD.Customer id, OLD.Parcel id);
      END;$$
      DELIMITER;
```

delete from payment where Customer\_id = 10001;

Connecting the backend to the Front end using Streamlit:

#### **Python Code:**

```
cursor = db.cursor()
def authenticate delivery person(username, password):
```

```
def admin login():
       result = authenticate customer(username, password)
def delivery person login():
def get assigned parcel details(delivery person id):
   cursor.execute(query)
   cursor.close()
```

```
def delivery person dashboard(delivery person id):
 ef admin dashboard(admin credentials):
```

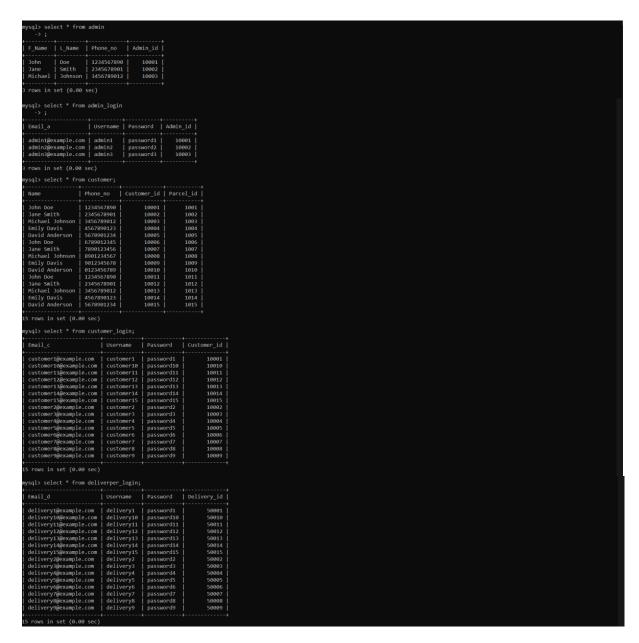
```
customer details = get customer details()
   st.table(customer details)
def get customer details():
   cursor.execute(query)
def add delivery person(name, phone no, parcel id):
```

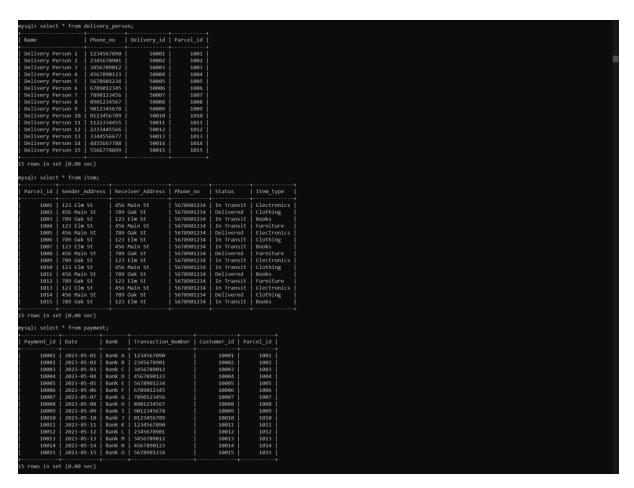
```
cursor.execute(query, values)
def delete_delivery_person(delivery_person_id):
   cursor.close()
def get parcel details():
   cursor = db.cursor()
   cursor.execute(query)
def get delivery person count():
   cursor.close()
def get_assigned_delivery_person(customer_id):
   cursor = db.cursor()
   cursor.close()
   cursor = db.cursor()
```

```
cursor.close()
def add parcel (parcel id, sender address, receiver address, phone no,
"Pending", item_type, assigned_delivery_person_id)
   cursor.close()
```

# **Result:**

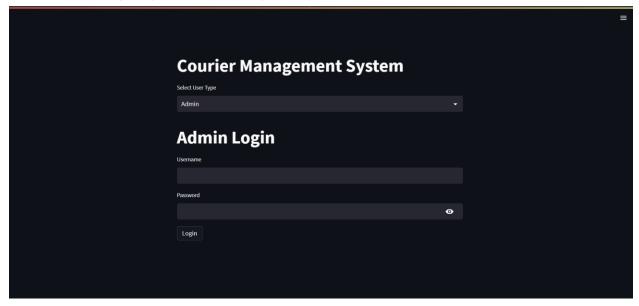
• Screenshots after inserting sample data and performing required operations:





• Screenshots after connecting Database to the Frontend:

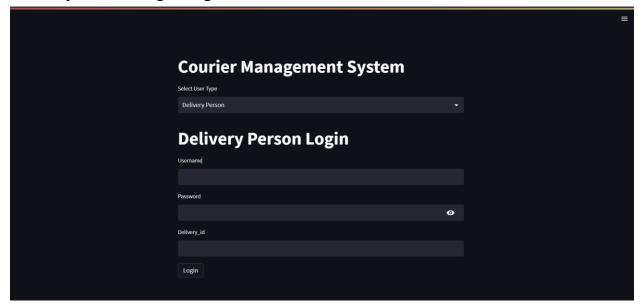
Landing Page : Admin Login Page



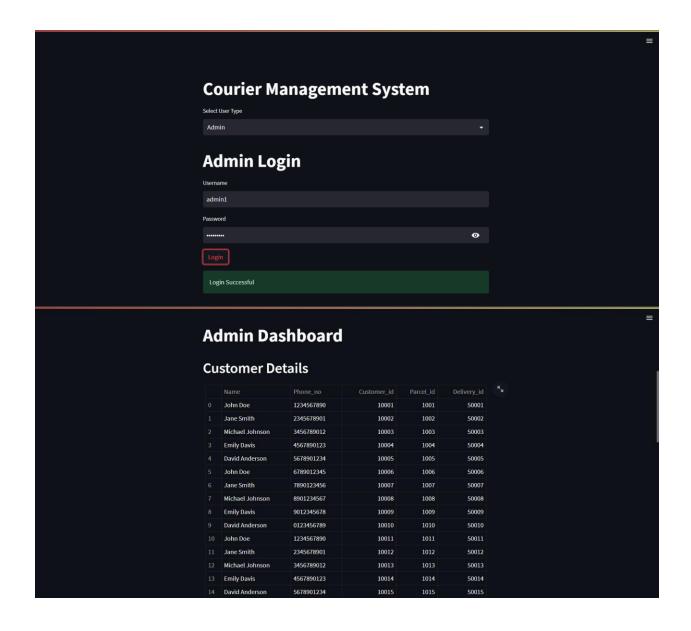
## Customer Login Page:

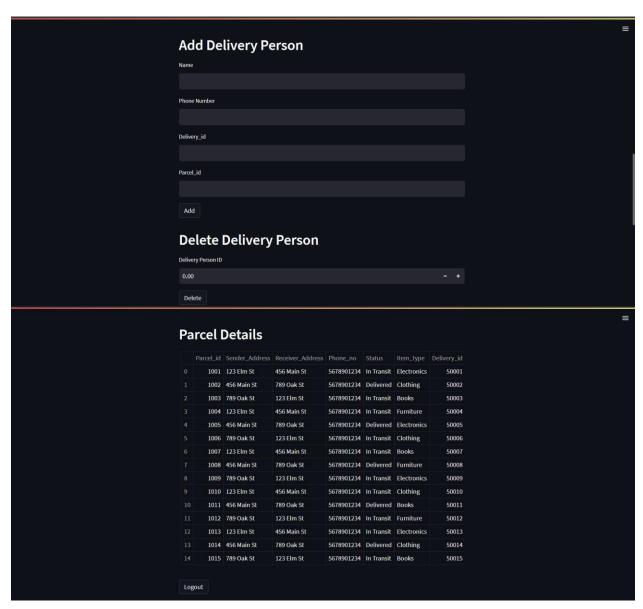


# Delivery Person Login Page:



Admin Dashboard after successful login:

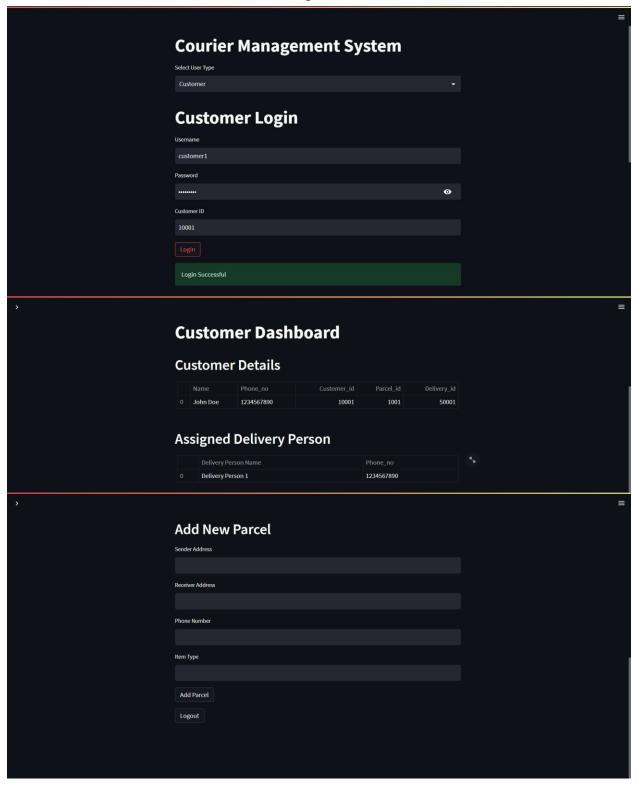




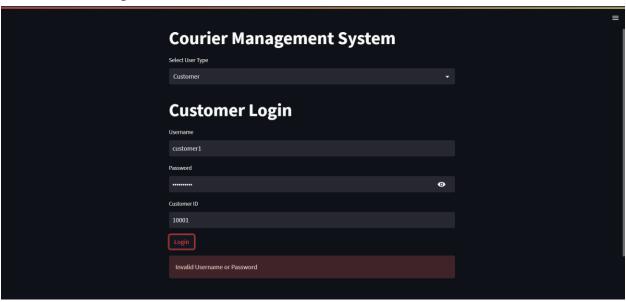
### Unsuccessful login:



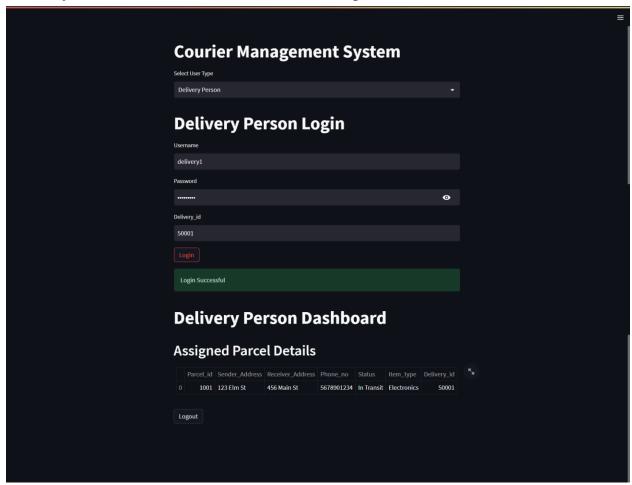
## Customer Dashboard after successful login:



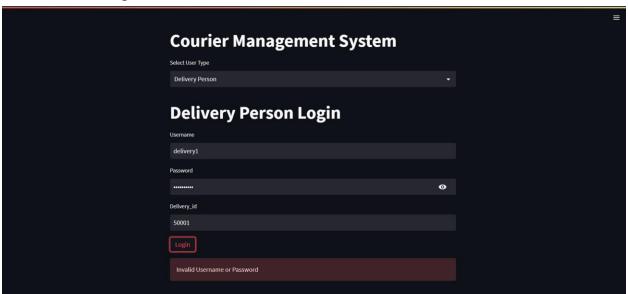
# Unsuccessful login:



## Delivery Person Dashboard after successful login:



# Unsuccessful login:



# **Conclusions:**

In conclusion, the mini project on courier management system database has successfully addressed the challenges faced in managing the courier operations efficiently. The project focused on designing a well-structured database schema that captures relevant information such as customers, delivery persons, parcels, and their relationships. By implementing this database, various tasks such as tracking parcels, assigning delivery persons, and managing customer details have been streamlined.

The database provides a reliable and scalable solution for storing and retrieving courier-related data. It offers flexibility in managing customer information, allowing efficient tracking and monitoring of parcel status. The integration of delivery person details enables proper assignment of parcels, optimizing the delivery process. The system also incorporates security measures, ensuring authorized access and protecting sensitive information.

Overall, the mini project on courier management system database has proved its effectiveness in enhancing the courier management process. By automating key tasks, it reduces manual efforts, minimizes errors, and improves overall operational efficiency. The project serves as a foundation for further enhancements and integration with other systems to create a comprehensive courier management solution.

# **Refrences:**

- UE20CS301 Database Management Systems (Minors) Lab Assignments
- YouTube

# THANK YOU