COURIER MANAGEMENT SYSTEM – ASSIGNMENT

ENTITY:

User.py

```
class User(DBConnection):
   def set userName(self, value):
   def set password(self, value):
   def set contactNumber(self, value):
       self.address = value
   def get_userId(self):
   def get userName(self):
   def get_email(self):
   def get_password(self):
```

Courier.py

```
self.userID = 0
    self.senderAddress = value
def set trackingNumber(self, value):
def set userID(self, value):
def get courierID(self):
```

Employee.py

```
from util.DBConnUtil import DBConnection
         self.employeeName = ''
    def set employeeID(self, value):
         self.employeeID = value
    def set_employeeName(self, value):
         self.employeeName = value
    def get employeeID(self):
         return self.employeeID
    def get employeeName(self):
    def get email(self):
    def get_contactNumber(self):
    def get salary(self):
         return f'Employee ID: {self.employeeID} Name: {self.employeeName}\n' \
    f'Email: {self.email} Contact Number: {self.contactNumber}\n' \
    f'Role: {self.role} Salary: {self.salary}'
```

Location.py

Couriercompany.py

```
from entity.Courier import Courier
from entity.Employee import Employee
from entity.Location import Location

class CourierCompany(Courier, Employee, Location):
    def __init__(self):
        super().__init__()
        self.companyName = ''
        self.courierID = 0
        self.employeeID = 0
        self.locationID = 0

# SETTERS

def set_companyName(self, value):
        self.courierID(self, value):
        self.courierID = value

def set_employeeID(self, value):
        self.employeeID = value

def set_locationID(self, value):
        self.locationID(self, value):
        self.locationID = value
```

Payment.py

```
def set courierID(self, value):
def get paymentID(self):
def get courierID(self):
def get amount(self):
def get paymentDate(self):
```

UserDAO:

```
class UserDAO(User):
   def perform user actions(self):
            self.open()
```

```
def update user(self):
        self.open()
        self.close()
```

CourierDAO:

```
from entity.Courier import Courier
   def perform courier actions(self):
               print(self.add courier())
           self.close()
   def add courier(self):
```

```
self.close()
    def update courier(self):
              self.open()
                 lf.trackingNumber = int(input('Enter Tracking Number: '))
lf.deliveryDate = input('Enter Delivery Date: ')
self.userID, courier id)]
              self.stmt.executemany(update str, data)
              self.stmt.execute(select str)
              self.close()
```

```
def getOrderStatus(self, trackingNumber):
    pass

def cancelOrder(self, trackingNumber):
    pass
```

EmployeeDAO:

```
from entity. Employee import Employee
class EmployeeDAO(Employee):
    def perform employee actions(self):
                 print(self.delete employee())
                 self.select employee()
    def create employee table(self):
    def add employee(self):
             self.open()
                lf.employeeName = input('Enter Employee Name: ')
lf.email = input('Enter email: ')
             self.stmt.executemany(insert str, data)
```

```
def update employee(self):
           self.close()
def delete employee(self):
          employee_id = int(input('Input Employee ID to be Deleted: '))
delete_str = f'''DELETE FROM Employee WHERE employeeID = {employee_id}'''
def select employee(self):
```

LocationDAO:

```
from entity.Location import Location
   def perform location actions(self):
               print(self.update location())
               print(self.delete location())
           self.stmt.executemany(insert str,data)
   def update_location(self):
           self.open()
```

CourierCompanyDAO:

```
class CourierCompany import CourierCompany)

class CourierCompanyDAO(CourierCompany):
    def __init __(self):
        super().__init__()

def perform_courier_company_actions(self):
        while True:
            print("(CourierCompany) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT

0.EXIT")

ch = int(input("Enter choice: "))
    if ch == 1:
        self.create_courier_company_table()
    elif ch == 2:
        print(self.add_courier_company())
    elif ch == 3:
        print(self.update_courier_company())
    elif ch == 5:
        self.select_courier_company())
    elif ch == 5:
        self.select_courier_company()
    elif ch == 0:
        break
    else:
        print("Invalid choice")

def create_courier_company_table(self):
    try:
    create_str = '''CREATE TABLE IF NOT EXISTS CourierCompany (
        companyName VARCHAR(50) PRIMARY KEY,
        courierID INT,
```

```
self.close()
   def add_courier_company(self):
           self.employeeID = int(input('Enter Employee ID: '))
           data = [(self.companyName, self.courierID, self.employeeID,
self.locationID)]
           self.close()
   def update courier company(self):
           self.close()
   def select courier company(self):
```

```
select_str = '''SELECT * FROM CourierCompany'''
self.open()
self.stmt.execute(select_str)
records = self.stmt.fetchall()
self.close()
print('Records In CourierCompany Table:')
for i in records:
    print(i)
except Exception as e:
    print(e)

def getAssignedOrder(self, employeeID):
    pass
```

PaymentDAO:

```
def perform_payment_actions(self):
def create payment table(self):
```

```
self.stmt.executemany(insert str, data)
        self.close()
def update payment(self):
        self.close()
def select payment(self):
```

IcourierServiceDAO:

```
rom dao.CourierDAO import CourierDAO
   def placeOrder(self):
self.courierID}''')
           records = self.stmt.fetchone()[0]
           self.close()
           self.open()
       except TrackingNumberNotFoundException as e:
   def cancelOrder(self, trackingNumber):
```

EXCEPTIONS:

InvalidEmployeeIdException:

```
class InvalidEmployeeIdException(Exception):
    def __init__(self,employee_id):
        super() .__init__(f'EmployeeID {employee_id} is not found in the system')
```

TrackingNumberNotFoundException:

```
class TrackingNumberNotFoundException(Exception):
    def __init__(self,tracking_Number):
        super().__init__(f'TrackingNumber {tracking_number} is not found in the
system')
```

UTIL:

DBConnUtil:

DBPropertyUtil:

MAIN:

Main.py (Executable file)

```
from dao.ICourierUserService import ICourierUserService
from dao.CourierDAO import CourierDAO
from dao.EmployeeDAO import EmployeeDAO
```

```
l.perform location actions()
        cc.perform courier company actions()
dbconnection.close()
```

OUTPUTS:

#Running the Main file

→ A menu driven program that asks for user input to select between above option to perform CRUD operations

#Selecting the options

```
Melcome to Courier Management System!

1. User 2.Courier 3.Employee 4.Location 5.CourierCompany 6.Payment 0.EXIT
Enter choice:

(User) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Courier) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Employee) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Employee) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Ication) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(CourierCompany) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Payment) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Payment) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Location) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Payment) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:

(Payment) 1.CREATE 2.INSERT 3.UPDATE 4.DELETE 5.SELECT 0.EXIT
Enter choice:
```

→ By selecting respective options from above we can perform CREATE,INSERT,UPDATE,DELETE and SELECT operations that automatically reflects in our database.

#Directly exit from the loop to enter into the menu

#To place Order

#To Get Order Status

To Cancel Order

```
---MENU---
=========

1.placeOrder
2.getOrderStatus
3.cancetOrder
4.getAssignedOrder
0.EXIT
Enter choice: 8
Enter Tracking Number of the Courier to be Cancelled: 18003
True
========
---MENU---
=========
1.placeOrder
2.getOrderStatus
3.cancetOrder
4.getAssignedOrder
0.EXIT
Enter choice: 2
Enter Tracking Number of the Courier to get Order Status: 18001
Cancelled
```

#To Get Assigned Order

#Finally