
About Project

In this project we have given an insight to the development of a computer based database titled “Parcel Management”. This is a Courier service Parcel Management System Project. This is a web-based project and its main purpose is to offer an automated platform for courier services to manage and track parcels information. This project has a simple user interface and user-friendly functionalities of the given project.

Frontend (UI)	:	Python (3.10.2)
Backend (Programming Language):		Python (3.10.2)
Database	:	MySQL (8.0.28)
Python download link	:	https://www.python.org/downloads/
MySQL download link	:	https://dev.mysql.com/downloads/mysql/

Objective of the Project:

- Even a non-technical user can use the system effectively and without any difficulty.
- It is upgradeable. Hence further enhancement to the system is possible.
- The system maintains speed and accuracy with eye-catching GUI.

References/Bibliography

- www.scribd.com/document/348228893/The-Transport-Management-System
- <https://www.w3schools.com/sql>
- **Sumita Arora Text Book for Class XII**

Database Designs

Enter password: *****

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 187

Server version: 8.0.25 MySQL Community Server - GPL

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use pms;

Database changed

mysql> show tables;

```
+-----+
| Tables_in_pms |
+-----+
| pinfo          |
| ratelist       |
+-----+
```

2 rows in set (0.01 sec)

mysql> desc pinfo;

Field	Type	Null	Key	Default	Extra
pid	int	NO	PRI	NULL	
radd	varchar(256)	YES		NULL	
rmob	char(10)	YES		NULL	
dispatchd	date	YES		NULL	
pweight	int	YES		NULL	
pamt	decimal(10,2)	YES		NULL	
sadd	varchar(256)	YES		NULL	
smob	char(10)	YES		NULL	

8 rows in set (0.01 sec)

mysql> desc ratelist;

Field	Type	Null	Key	Default	Extra
sn	int	NO	PRI	NULL	auto_increment
wf	int	YES		NULL	
wt	int	YES		NULL	
rate	decimal(10,2)	YES		NULL	

4 rows in set (0.00 sec)

Setting the connection between Python and RDBMS(MySQL)

```
import mysql.connector
from tabulate import tabulate
```

```
con=mysql.connector.connect(host="localhost",user="root",password="Admin@1234",
database="pms")
```

```
cur=con.cursor()
```

Python Program Code

#pMgtSys.py

```
import orderMgt
import mysql.connector
con=mysql.connector.connect(host="localhost",user="root",password="Admin@1234")
cur=con.cursor()
cur.execute("create database if not exists pms;")
cur.execute('use pms')
cur.execute("""create table if not exists pinfo(pid int primary key,radd varchar(256),rmob
char(10),dispatchd date,
pweight int,pamt decimal(10,2),sadd varchar(256),smob char(10));""")
while True:
    print('-----WELCOME TO INSTANT PARCEL SERVICES-----')
    print('here is the list of operations:')
    print("1. ORDER MGT 2. RATE LIST 3. EXIT")
    op=input('enter your choice: ')
    if op=='1':
        print("1.Placing order\n 2.Search order\n 3.Edit order details\n 4.Display all details\n 5.Delete
order")
        cho=input("enter your choice: ")
        if cho=='1':
            orderMgt.add()
        elif cho=='2':
            orderMgt.search()
        elif cho=='3':
            orderMgt.edit()
        elif cho=='4':
            orderMgt.dispall()
        elif cho=='5':
            orderMgt.delete()
        else:
            print("Wrong choice entered")
```

```
if op=='2':
    orderMgt.ratelist()
```

#orderMgt.py

```
import mysql.connector
from tabulate import tabulate
con=mysql.connector.connect(host="localhost",user="root",password="Admin@1234",database="pinfos")
cur=con.cursor()

def add():
    while True:
        cur.execute("select max(pid) from pinfos;")
        pid=cur.fetchone()[0]
        if pid:
            pid=pid+1;
        else:
            pid=301
        pamt=0
        radd=input("Enter Receiver's Address(with name):")
        rmob=input("Enter Receiver's Mobile No:")
        pweight=int(input("Enter the weight of the parcel(in kg):"))
        if (pweight>0 and pweight<=5):
            pamt=pamt+(pweight*50)
        elif (pweight>5 and pweight<=10):
            pamt=pamt+(pweight*70)
        elif pweight>10:
            pamt=pamt+(pweight*100)
        else:
            print("Invalid Input")
            break
        print("Total payable amount is",pamt)
        ch=input("You want to proceed(Y/N)")
        if ch in['Y', 'y']:
            sadd=input("Enter Sender's address(with name):")
            smob=input("Enter sender's Mobile No:")
            cur.execute("insert into pinfos values({},{},'{}',{},{},{},'{}');".format(pid,radd,rmob,pweight,pamt,sadd,smob))
            con.commit()
            print("Parcel Information added successfully!")
            status=input("Do you want to proceed another records(Y/N):\n")
            if status in ['n','N']:
                break

def search():
    pid=int(input("Enter Packet Id whose information is to be searched:"))
    print()
```

```

cur.execute("select * from pinfo where pid={ };".format(pid))
rec=cur.fetchall()
if rec:
    print(tabulate(rec,headers=["pid","radd","rmob","dispatchd
date","pweight","pamt","sadd","smob"],tablefmt="psql"))
    print()
else:
    print("Record not found for the entered Packet Id!")
    print()

def edit():
    pid=int(input("Enter Packet Id whose information is to be edited:"))
    print()
    cur.execute("select * from pinfo where pid={ };".format(pid))
    rec=cur.fetchall()
    if rec:
        print(tabulate(rec,headers=["pid","radd","rmob","dispatchd
date","pweight","pamt","sadd","smob"],tablefmt="psql"))
        print()
        smob=input("Enter updated Mobile No of Sender:")
        rmob=input("Enter updated Mobile No of receiver:")
        cur.execute("update pinfo set smob='{ }',rmob='{ }' where pid={ };".format(smob,rmob,pid))
        con.commit()
        print()
        print("Information for entered Packet Id is edited successfully!")
        print()
    else:
        print("Record not found for the entered Packet Id!")
        print()

def dispall():
    cur.execute("select * from pinfo;")
    rec=cur.fetchall()
    if rec:
        print(tabulate(rec,headers=["pid","radd","rmob","dispatchd
date","pweight","pamt","sadd","smob"],tablefmt="psql"))
        print()
    else:
        print("Table is empty:No record found!")
        print()

def delete():
    pid=int(input("Enter Packet Id whose information is to be deleted:"))
    print()
    cur.execute("select * from pinfo where pid={ };".format(pid))
    rec=cur.fetchall()
    if rec:

```

```

        print(tabulate(rec,headers=["pid","radd","rmob","dispatchd
date","pweight","pamt","sadd","smob"],tablefmt="psql"))
        print()
        cur.execute("delete from pinfo where pid={ }".format(pid))
        con.commit()
        print("Information for the entered Packet Id is deleted successfully!")
        print()
    else:
        print("Record not found for the entered Packet Id!")
        print()

def ratelist():
    cur.execute("select * from ratelist;")
    rec=cur.fetchall()
    if rec:
        print(tabulate(rec,headers=["S.No.","Weight From(in Kg)","Weight To(in Kg)","Price(Per
Kg)"],tablefmt="psql"))
        print()

```

Output Screens :

1) RATE LIST:

```
===== RESTART: C:\Users\hp\Desktop\parcelMgtSys\pMgtSys.py =====
-----WELCOME TO INSTANT PARCEL SERVICES-----
here is the list of operations:
1. ORDER MGT 2. RATE LIST 3. EXIT
enter your choice: 2
+-----+-----+-----+-----+
| S.No. | Weight From(in Kg) | Weight To(in Kg) | Price(Per Kg) |
+-----+-----+-----+-----+
| 1 | 1 | 5 | 50 |
| 2 | 6 | 10 | 70 |
| 3 | 11 | 100 | 100 |
+-----+-----+-----+-----+
```

2) PLACING ORDER:


```

===== RESTART: C:\Users\hp\Desktop\parcelMgtSys\pMgtSys.py =====
-----WELCOME TO INSTANT PARCEL SERVICES-----
here is the list of operations:
1. ORDER MGT 2. RATE LIST 3. EXIT
enter your choice: 1
1.Placing order
2.Search order
3.Edit order details
4.Display all details
5.Delete order
enter your choice: 1
Enter Receiver's Address(with name):lalit kumar , 45(A),vaishali colony,delhi
Enter Receiver's Mobile No:9512357486
Enter the weight of the parcel(in kg):8
Total payable amount is 560
You want to proceed(Y/N)y
Enter Sender's address(with name):suresh,48,panchwati colony,bulandshahr
Enter sender's Mobile No:7412369852
Parcel Information added successfully!
Do you want to proceed another records(Y/N): n

```

3) DISPLAY FUNCTION:

```

===== RESTART: C:\Users\hp\Desktop\parcelMgtSys\pMgtSys.py =====
-----WELCOME TO INSTANT PARCEL SERVICES-----
here is the list of operations:
1. ORDER MGT 2. RATE LIST 3. EXIT
enter your choice: 1
1.Placing order
2.Search order
3.Edit order details
4.Display all details
5.Delete order
enter your choice: 4
+-----+-----+-----+-----+-----+-----+-----+
| pid | radd | smob | rmob | dispatchd date | pweight | pamt | sadd |
+-----+-----+-----+-----+-----+-----+-----+
| 301 | kunal,481/a,subhash nagar,delhi | 9874563219 | 2022-04-08 | 2 | 100 | jayant | |
| 302 | :priyansh , 78-b vimal appartments,karnal | 7894561230 | 2022-04-08 | 3 | 150 | sohan,49-c,jagatpurs |
| 303 | reena,459,junction road,khurja | 9852314567 | 2022-04-08 | 9 | 630 | heena |
| 304 | suhail,481c,gandhi colony,meerut | 7895236410 | 2022-04-08 | 5 | 250 | ali |
| 305 | lalit kumar , 45(A),vaishali colony,delhi | 9512357486 | 2022-04-08 | 8 | 560 | suresh,48,panchwati colony, bulandshahr | 7412369852 |
+-----+-----+-----+-----+-----+-----+-----+

```

4) EDIT FUNTION:

-----WELCOME TO INSTANT PARCEL SERVICES-----

here is the list of operations:

1. ORDER MGT 2. RATE LIST 3. EXIT

enter your choice: 1

1.Placing order

2.Search order

3.Edit order details

4.Display all details

5.Delete order

enter your choice: 3

Enter Packet Id whose information is to be edited:302

```
+-----+-----+-----+-----+-----+-----+
| pid | radd |          | rmob | dispatchd date | pweight | pamt | sadd |
| smob |
+-----+-----+-----+-----+-----+-----+
| 302 | :priyansh , 78-b vimal appartments,karnal | 7894561230 | 2022-04-08 | 3 | 150 | sohan,49-c,jagatpurs | 7418
529632 |
+-----+-----+-----+-----+-----+-----+
```

Enter updated Mobile No of Sender:8523258854

Enter updated Mobile No of receiver:7854123698

Information for entered Packet Id is edited successfully!

5) DELETE FUNTION:

-----WELCOME TO INSTANT PARCEL SERVICES-----

here is the list of operations:

1. ORDER MGT 2. RATE LIST 3. EXIT

enter your choice: 1

1.Placing order

2.Search order

3.Edit order details

4.Display all details

5.Delete order

enter your choice: 5

Enter Packet Id whose information is to be deleted:305

```
+-----+-----+-----+-----+-----+-----+
| pid | radd |          | rmob | dispatchd date | pweight | pamt | sadd |
| smob |
+-----+-----+-----+-----+-----+-----+
| 305 | lalit kumar , 45(A),vaishali oolony,delhi | 9512357486 | 2022-04-08 | 8 | 560 | suresh,48,panchwati oolony,
bulandshahr | 7412369852 |
+-----+-----+-----+-----+-----+-----+
```

Information for the entered Packet Id is deleted successfully!