

CUSTOMER MANAGEMENT SYSTEM

WHAT :-

- 1.** A Customer Management System In Python is a simple management system that includes a customer's details, such as first name, last name, Email, gender, age, address and contact number.
- 2.** This project mainly focuses on Create, Read, Update and Delete (CRUD).
- 3.** This application uses Database Management System Uses such as MySQL.
- 4.** The purpose is to build a system that helps companies stay connected to customers, streamline processes, and improve profitability.
- 5.** Easy to update Information.

WHY :-

- 1.** A Customer Management System simplifies this by giving sales representatives a detailed view of client records so they can send personalized responses and reply within context.

- 2.** Automating sales tasks.
- 3.** Handling customer inquiries on time.
- 4.** Improving customer engagement with marketing automation.
- 5.** Collecting feedback to improve customer satisfaction.
- 6.** Automating customer service.

HOW :-

1. Backend: Features

Data Management : MySQL (Software)
SQL(Query Language)
Python(Programming Language)

2. Frontend: Interface

Web Application : Streamlit(Package)
Python(Programming Language)

DATABASE STRUCTURE

CREATE DATABASE CustomerManagementSystem

CREATE table:

Customers

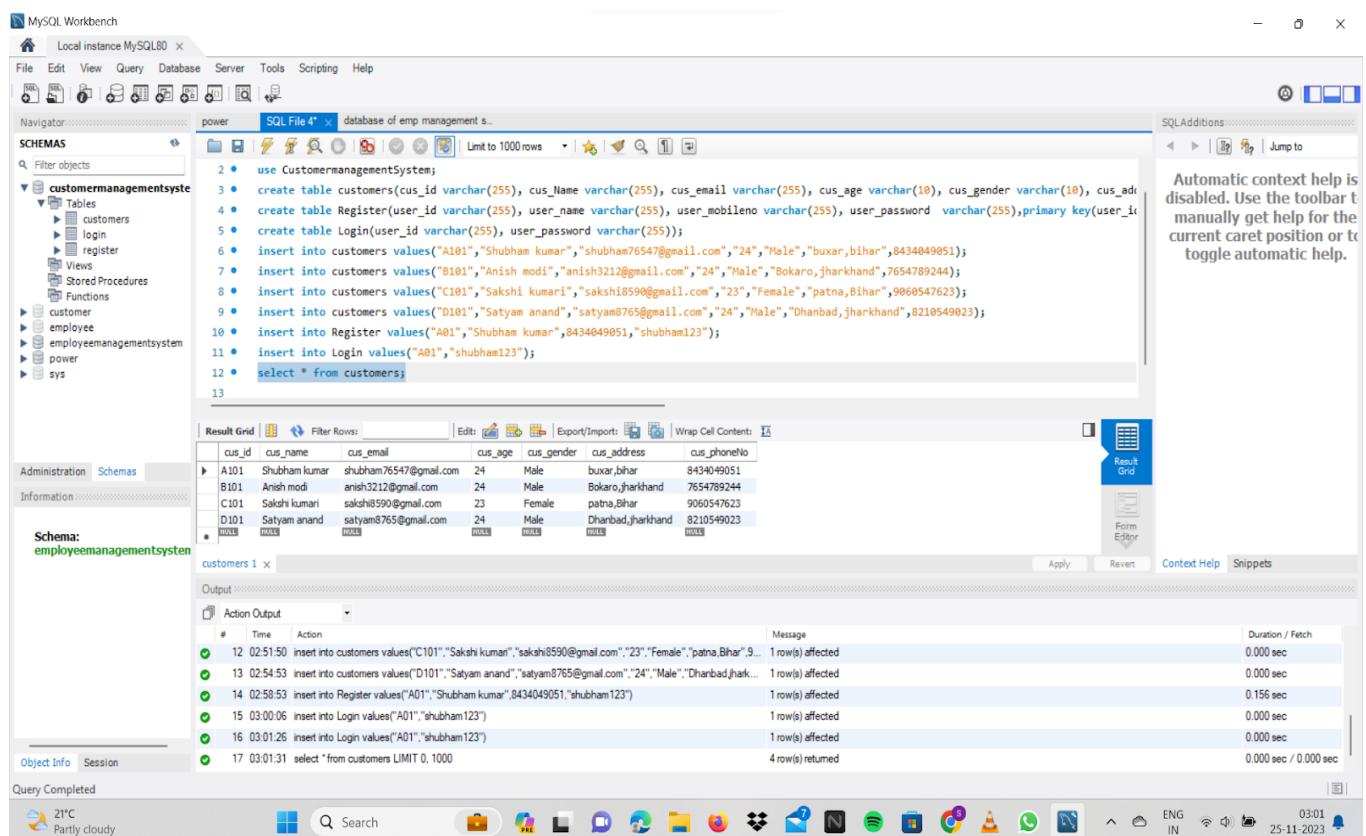
Customer_id
Customer_name
Customer_email
Customer_age
Customer_gender
Customer_address
Customer_phone no.

Register

User_id
User_name
User_mobileNo.
User_password

Login

User_id
User_password



The screenshot shows the MySQL Workbench interface with the following details:

- Schemas:** The current schema is "employeemanagementsystem".
- Tables:** The schema contains tables: customers, login, register.
- Query Editor:** The SQL tab displays the following DDL and DML statements:

```
2 • use CustomermanagementSystem;
3 • create table customers(cus_id varchar(255), cus_Name varchar(255), cus_email varchar(255), cus_age varchar(10), cus_Gender varchar(10), cus_Adress varchar(255), cus_PhoneNo varchar(255));
4 • create table Register(user_id varchar(255), user_name varchar(255), user_mobileno varchar(255), user_password varchar(255), primary key(user_id));
5 • create table Login(user_id varchar(255), user_password varchar(255));
6 • insert into customers values("A101","Shubham kumar","shubham76547@gmail.com","24","Male","buxar,bihar",8434049051);
7 • insert into customers values("B101","Anish modi","anish321@gmail.com","24","Male","Bokaro,jharkhand",7654789244);
8 • insert into customers values("C101","Sakshi kumari","sakshi8590@gmail.com","23","Female","patna,Bihar",9060547623);
9 • insert into customers values("D101","Satyam anand","satyam8765@gmail.com","24","Male","Dhanbad,jharkhand",8210549023);
10 • insert into Register values("A01","Shubham kumar",8434049051,"shubham123");
11 • insert into Login values("A01","shubham123");
12 • select * from customers;
```
- Result Grid:** The Result Grid shows the data inserted into the customers table:

cus_id	cus_name	cus_email	cus_age	cus_Gender	cus_Adress	cus_PhoneNo
A101	Shubham kumar	shubham76547@gmail.com	24	Male	buxar,bihar	8434049051
B101	Anish modi	anish321@gmail.com	24	Male	Bokaro,jharkhand	7654789244
C101	Sakshi kumari	sakshi8590@gmail.com	23	Female	patna,Bihar	9060547623
D101	Satyam anand	satyam8765@gmail.com	24	Male	Dhanbad,jharkhand	8210549023
- Action Output:** The Action Output pane shows the execution history of the queries:

#	Time	Action	Message	Duration / Fetch
12	02:51:50	insert into customers values("C101","Sakshi kumari","sakshi8590@gmail.com","23","Female","patna.Bihar",9...)	1 row(s) affected	0.000 sec
13	02:54:53	insert into customers values("D101","Satyam anand","satyam8765@gmail.com","24","Male","Dhanbad,jharkhand",8210549023)	1 row(s) affected	0.000 sec
14	02:58:53	insert into Register values("A01","Shubham kumar",8434049051,"shubham123")	1 row(s) affected	0.156 sec
15	03:00:06	insert into Login values("A01","shubham123")	1 row(s) affected	0.000 sec
16	03:01:26	insert into Login values("A01","shubham123")	1 row(s) affected	0.000 sec
17	03:01:31	select * from customers LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS customer customermanagementsystem

SQL File 3 x

```

6 • insert into customers values("A101","Shubham kumar","shubham76547@gmail.com","24","Male","buxar,bihar",8434049051);
7 • insert into customers values("B101","Anish modi","anish321@gmail.com","24","Male","Bokaro,jharkhand",7654789244);
8 • insert into customers values("C101","Sakshi kumari","sakshi8590@gmail.com","23","Female","patna,Bihar",9060547623);
9 • insert into customers values("D101","Satyan anand","satyan8765@gmail.com","24","Male","Dhanbad,jharkhand",8210549023);
10 • insert into Register values("A01","Shubham kumar",8434049051,"shubham123");
11 • insert into Register values("B01","Anish modi ",7654789244,"anish@321");
12 • insert into Login values("A01","shubham123");
13 • insert into Login values("B01","anish@321");
14 • select * from customers;
15 • drop table customers;
16 • select * from Register;
```

Result Grid | Filter Rows: Limit to 1000 rows | Export/Import: Wrap Cell Content: □

user_id	user_name	user_mobileno	user_password
A01	Shubham kumar	8434049051	shubham123
B01	Anish modi	7654789244	anish@321

Administration Schemas Information

Schema: customermanagementsystem

Register 3 x

Action Output

#	Time	Action	Message	Duration / Fetch
31	01:32:44	insert into Login values("A01","shubham123")	Error Code: 1062: Duplicate entry 'A01' for key 'Login.PRIMARY'	0.000 sec
32	01:32:48	insert into Login values("B01","anish@321")	1 row(s) affected	0.000 sec
33	01:32:55	select * from customers LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
34	01:33:03	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
35	01:36:24	insert into Register values("B01","Anish modi ",7654789244,"anish@321")	1 row(s) affected	0.000 sec
36	01:36:28	select * from Register LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS power database of emp management s...

SQL File 4 x

```

5 • create table Login(user_id varchar(255), user_password varchar(255));
6 • insert into customers values("A101","Shubham kumar","shubham76547@gmail.com","24","Male","buxar,bihar",8434049051);
7 • insert into customers values("B101","Anish modi","anish321@gmail.com","24","Male","Bokaro,jharkhand",7654789244);
8 • insert into customers values("C101","Sakshi kumari","sakshi8590@gmail.com","23","Female","patna,Bihar",9060547623);
9 • insert into customers values("D101","Satyan anand","satyan8765@gmail.com","24","Male","Dhanbad,jharkhand",8210549023);
10 • insert into Register values("A01","Shubham kumar",8434049051,"shubham123");
11 • insert into Login values("A01","shubham123");
12 • select * from customers;
13 • drop table customers;
14 • select * from Register;
15 • select * from Login;
```

Result Grid | Filter Rows: Limit to 1000 rows | Export: Wrap Cell Content: □

user_id	user_password
A01	shubham123
A01	shubham123

Administration Schemas Information

Schema: employemanagementsystem

Login 9 x

Action Output

#	Time	Action	Message	Duration / Fetch
25	03:04:54	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
26	03:04:56	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
27	03:04:56	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
28	03:05:26	select * from Login LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
29	03:05:31	select * from customers LIMIT 0, 1000	Error Code: 1146: Table 'customermanagementsystem.customers' doesn't exist	0.000 sec
30	03:05:45	select * from Login LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

MySQL Workbench Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: SCHEMAS power database of emp management s...

SQL File 4 x

```

5 • create table Login(user_id varchar(255), user_password varchar(255));
6 • insert into customers values("A101","Shubham kumar","shubham76547@gmail.com","24","Male","buxar,bihar",8434049051);
7 • insert into customers values("B101","Anish modi","anish321@gmail.com","24","Male","Bokaro,jharkhand",7654789244);
8 • insert into customers values("C101","Sakshi kumari","sakshi8590@gmail.com","23","Female","patna,Bihar",9060547623);
9 • insert into customers values("D101","Satyan anand","satyan8765@gmail.com","24","Male","Dhanbad,jharkhand",8210549023);
10 • insert into Register values("A01","Shubham kumar",8434049051,"shubham123");
11 • insert into Login values("A01","shubham123");
12 • select * from customers;
13 • drop table customers;
14 • select * from Register;
15 • select * from Login;
```

Result Grid | Filter Rows: Limit to 1000 rows | Export recordset to an external file | Wrap Cell Content: □

user_id	user_password
A01	shubham123
A01	shubham123

Administration Schemas Information

Schema: employemanagementsystem

Login 9 x

Action Output

#	Time	Action	Message	Duration / Fetch
25	03:04:54	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
26	03:04:56	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
27	03:04:56	select * from Register LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
28	03:05:26	select * from Login LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec
29	03:05:31	select * from customers LIMIT 0, 1000	Error Code: 1146: Table 'customermanagementsystem.customers' doesn't exist	0.000 sec
30	03:05:45	select * from Login LIMIT 0, 1000	2 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

Building Projects with Python:-

1. Create virtual environment
2. Activate the environment every time you use a virtual environment.
3. Install the Packages mysql-connector-python

```
import mysql.connector
mydb=mysql.connector.connect(host="localhost",user="root",password="12345678",database="CustomermanagementSystem")
c=mydb.cursor()
c.execute(" select * from customers")
#To retrieve data
for row in c:
    print(row)
```

#To Add a Customer

```
import mysql.connector
import datetime
mydb=mysql.connector.connect(host="localhost",user="root",password="12345678",database="CustomermanagementSystem")
```

```
c=mydb.cursor()
usd=input("Enter user Id")
psd=input("Enter user password")
nmd=input("Enter user name")
tmd=str(datetime.datetime.now())
c.execute("insert into Register
values(%s,%s,%s,%s)",(usd,nmd,psd,tmd))
mydb.commit()
print("Customer Registered Successfully at time:",tmd)
```

```
C:\Windows\System32\cmd.exe + 
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\My projects\Customer\My\Scripts>activate

(My) C:\My projects\Customer\My\Scripts>backend.py
('A101', 'Shubham kumar', 'shubham76547@gmail.com', '24', 'Male', 'buxar,bihar', '8434049051')
('B101', 'Anish modi', 'anish3212@gmail.com', '24', 'Male', 'Bokaro,jharkhand', '7654789244')
('C101', 'Sakshi kumari', 'sakshi8590@gmail.com', '23', 'Female', 'patna,Bihar', '9060547623')
('D101', 'Satyam anand', 'satyam8765@gmail.com', '24', 'Male', 'Dhanbad,jharkhand', '8210549023')

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user IdC01
Enter user password sakshi@4321
Enter user name sakshi soni
Customer Registered Successfully at time: 2023-11-25 04:00:37.791840

(My) C:\My projects\Customer\My\Scripts>
```

```
C:\Windows\System32\cmd.e X + v

Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\My projects\Customer\My\Scripts>activate

(My) C:\My projects\Customer\My\Scripts>backend.py
('A101', 'Shubham kumar', 'shubham76547@gmail.com', '24', 'Male', 'buxar,bihar', '8434049051')
('B101', 'Anish modi', 'anish3212@gmail.com', '24', 'Male', 'Bokaro,jharkhand', '7654789244')
('C101', 'Sakshi kumari', 'sakshi8590@gmail.com', '23', 'Female', 'patna,Bihar', '9060547623')
('D101', 'Satyam anand', 'satyam8765@gmail.com', '24', 'Male', 'Dhanbad,jharkhand', '8210549023')

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user IdC01
Enter user passwordsakshi@4321
Enter user nameSakshi soni
Customer Registered Successfully at time: 2023-11-25 04:00:37.791840

(My) C:\My projects\Customer\My\Scripts>
```

```
import mysql.connector
mydb=mysql.connector.connect(host="localhost"
",user="root",password="12345678",database=
CustomermanagementSystem")
c=mydb.cursor()
login=False
usd=input("Enter user Id")
psd=input("Enter user password")
c.execute(" select * from Login")
#To retrieve data
for row in c:
    if(usd==row[0] and psd==row[1]):
        login=True
        break
if(login):
    print("Login Successful")
else:
    print("Incorrect ID or Password")
```

```
C:\Windows\System32\cmd.e + 
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\My projects\Customer\My\Scripts>activate

(My) C:\My projects\Customer\My\Scripts>backend.py
('A101', 'Shubham kumar', 'shubham7654@gmail.com', '24', 'Male', 'buxar,bihar', '8434049051')
('B101', 'Anish modi', 'anish3212@gmail.com', '24', 'Male', 'Bokaro,jharkhand', '7654789244')
('C101', 'Sakshi kumari', 'sakshi8590@gmail.com', '23', 'Female', 'patna,Bihar', '9060547623')
('D101', 'Satyam anand', 'satyam8765@gmail.com', '24', 'Male', 'Dhanbad,jharkhand', '8210549023')

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user IdC01
Enter user passwordsakshi@4321
Enter user namesakshi soni
Customer Registered Successfully at time: 2023-11-25 04:00:37.791840

(My) C:\My projects\Customer\My\Scripts>backend.py
('A01', 'Shubham kumar', '8434049051', 'shubham123')
('B01', 'Anish kumar', 'anish654', '2023-11-25 03:58:13.129862')
('C01', 'sakshi soni', 'sakshi@4321', '2023-11-25 04:00:37.791840')

(My) C:\My projects\Customer\My\Scripts>
```

```
(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user Idsdvdsfv
Enter user password876283
('A01', 'shubham123')
('A01', 'shubham123')
('A01', 'shubham123')
('A01', 'shubham123')
('B01', 'anish@321')

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user Idjsndviosdfv
Enter user password928r2r234
Incorrect ID or Password

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user IdA01
Enter user password09q4
Incorrect ID or Password

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user IdA01
Enter user passwordshubham123
Login Successful

(My) C:\My projects\Customer\My\Scripts>backend.py
Enter user IDb01
Enter user passwordanish@321
Login Successful

(My) C:\My projects\Customer\My\Scripts>
```

STREAMLIT

Frontend- Interface(Web Application)

Streamlit:-

Web development which is used to develop data apps.

Features:-

1. Support Libraries such as pandas
seaborn,opencv,mysql-connector
2. One line Functionality
3. Support HTML
4. Free Server

SOURCE CODE:-

```
import streamlit as st
import mysql.connector
st.title(":violet[CUSTOMER MANAGEMENT SYSTEM]")
st.write("---")
choice=st.sidebar.selectbox("MyMenu",("Home","Acc
ount","Customer"))
if(choice=="Home"):
    st.header("WELCOME")
    st.write("Hello This is an Application developed by
Shubham kumar as a part of Training Project")
```

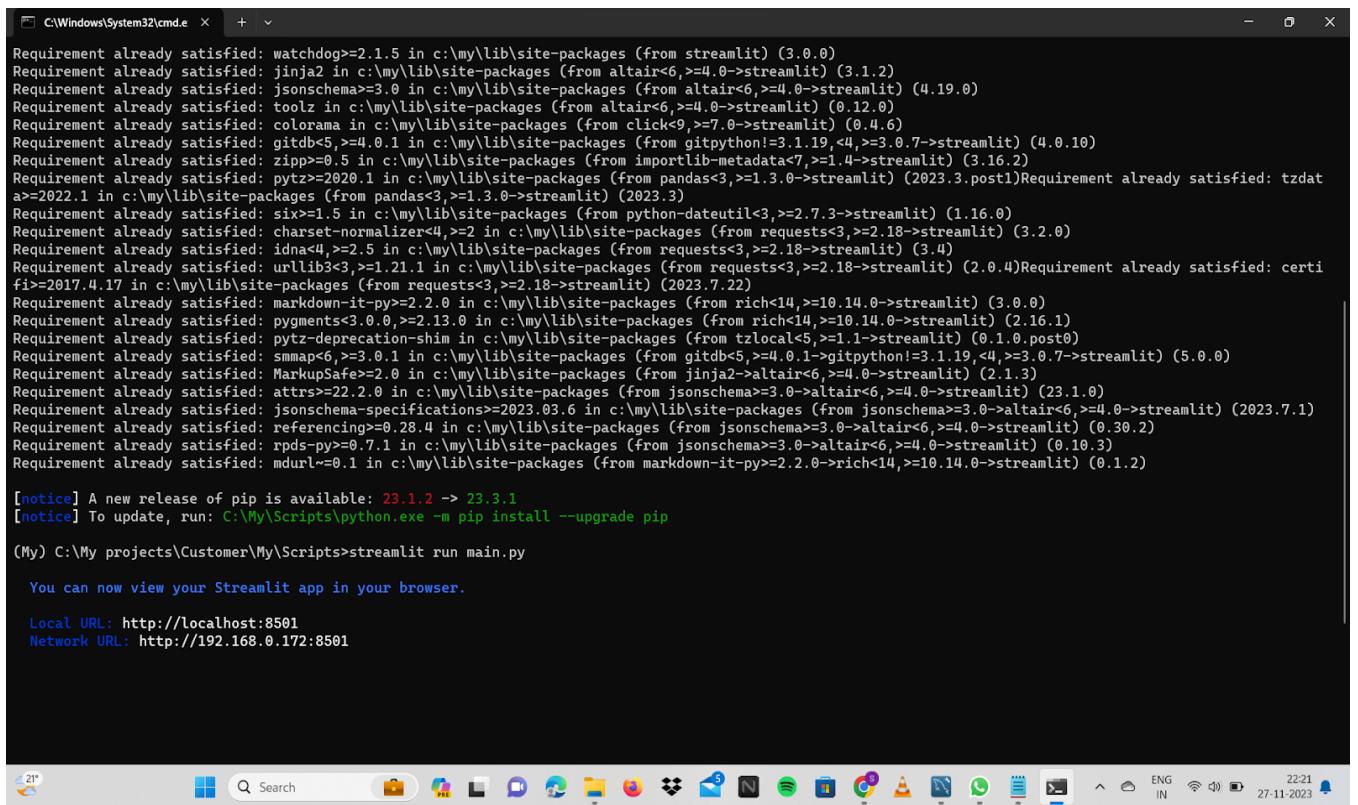
```
st.image("https://previews.123rf.com/images/redeer/redeer1604/redeer16040003/54575173-customer-relationship-management-vector-illustration-flat-icons-of-clients-objectives-support.jpg")
elif(choice=="Account"):

choice=st.selectbox('Register/Login',['Register','Login'])
if choice=="Register":
    usd=st.text_input("Enter user Id")
    username=st.text_input("Enter user_name")
    mobileno=st.text_input("Enter user_mobileno")
    psd=st.text_input("Enter user password",type='password')
    btn=st.button("Create my account")
    if btn:
        st.subheader("Account created Successful")
if choice=="Login":
    if 'login' not in st.session_state:
        st.session_state['login']=False
    usd=st.text_input("Enter user Id")
    psd=st.text_input("Enter user password",type='password')
    btn=st.button("Login")
    if btn:
        mydb=mysql.connector.connect(host="localhost",use
```

```

r="root",password="12345678",database="customermanagement
anagementsystem")
c=mydb.cursor()
c.execute("select * from Login")
for r in c:
    if(r[0]==usd and r[1]==psd):
        st.session_state['login']=True
        break
    if(st.session_state['login']==False):
        st.subheader("Incorrect ID or Password")
if(st.session_state['login']==True):
    st.subheader("Login Successful")

```



The screenshot shows a Windows Command Prompt window titled 'C:\Windows\System32\cmd.e'. The window displays the following text:

```

Requirement already satisfied: watchdog>=2.1.5 in c:\my\lib\site-packages (from streamlit) (3.0.0)
Requirement already satisfied: jinja2 in c:\my\lib\site-packages (from altair<6,>=4.0->streamlit) (3.1.2)
Requirement already satisfied: jsonschema>=3.0 in c:\my\lib\site-packages (from altair<6,>=4.0->streamlit) (4.19.0)
Requirement already satisfied: toolz in c:\my\lib\site-packages (from altair<6,>=4.0->streamlit) (0.12.0)
Requirement already satisfied: colorama in c:\my\lib\site-packages (from click<9,>=7.0->streamlit) (0.4.6)
Requirement already satisfied: gitdb<5,>=4.0.1 in c:\my\lib\site-packages (from gitpython!=3.1.19,<4,>=3.0.7->streamlit) (4.0.10)
Requirement already satisfied: zipp>=0.5 in c:\my\lib\site-packages (from importlib-metadata<3,>=1.4->streamlit) (3.16.2)
Requirement already satisfied: pytz>=2020.1 in c:\my\lib\site-packages (from pandas<3,>=1.3.0->streamlit) (2023.3.post1)
Requirement already satisfied: tzdat a>=2022.1 in c:\my\lib\site-packages (from pandas<3,>=1.3.0->streamlit) (2023.3)
Requirement already satisfied: six>=1.5 in c:\my\lib\site-packages (from python-dateutil<3,>=2.7.3->streamlit) (1.16.0)
Requirement already satisfied: charset-normalizer<4,>=2 in c:\my\lib\site-packages (from requests<3,>=2.18->streamlit) (3.2.0)
Requirement already satisfied: idna<4,>=2.5 in c:\my\lib\site-packages (from requests<3,>=2.18->streamlit) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in c:\my\lib\site-packages (from requests<3,>=2.18->streamlit) (2.0.4)
Requirement already satisfied: certifi>=2017.4.17 in c:\my\lib\site-packages (from requests<3,>=2.18->streamlit) (2023.7.22)
Requirement already satisfied: markdown-it-py>=2.2.0 in c:\my\lib\site-packages (from rich<14,>=10.14.0->streamlit) (3.0.0)
Requirement already satisfied: pygments>=3.0.0,>=2.13.0 in c:\my\lib\site-packages (from rich<14,>=10.14.0->streamlit) (2.16.1)
Requirement already satisfied: pytz=deprecation-shim in c:\my\lib\site-packages (from tzlocal<5,>=1.1->streamlit) (0.1.0.post0)
Requirement already satisfied: mmap<6,>=3.0.1 in c:\my\lib\site-packages (from gitdb<5,>=4.0.1->gitpython!=3.1.19,<4,>=3.0.7->streamlit) (5.0.0)
Requirement already satisfied: MarkupSafe>=2.0 in c:\my\lib\site-packages (from jinja2->altair<6,>=4.0->streamlit) (2.1.3)
Requirement already satisfied: attrs>=22.2.0 in c:\my\lib\site-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit) (23.1.0)
Requirement already satisfied: jsonschema-specifications>=2023.03.6 in c:\my\lib\site-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit) (2023.7.1)
Requirement already satisfied: referencing>=0.28.4 in c:\my\lib\site-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit) (0.30.2)
Requirement already satisfied: rpdspy>=0.7.1 in c:\my\lib\site-packages (from jsonschema>=3.0->altair<6,>=4.0->streamlit) (0.10.3)
Requirement already satisfied: mdurl~>0.1 in c:\my\lib\site-packages (from markdown-it-py>=2.2.0->rich<14,>=10.14.0->streamlit) (0.1.2)

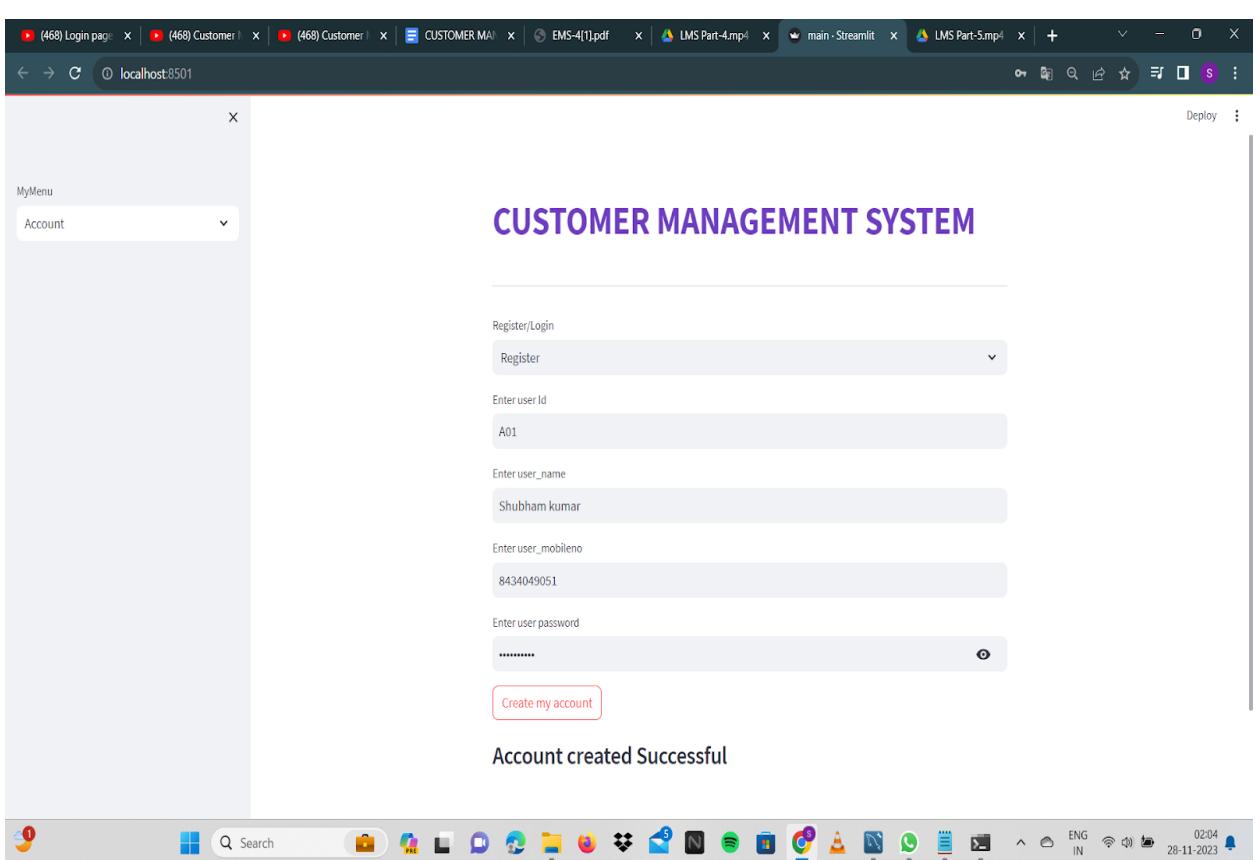
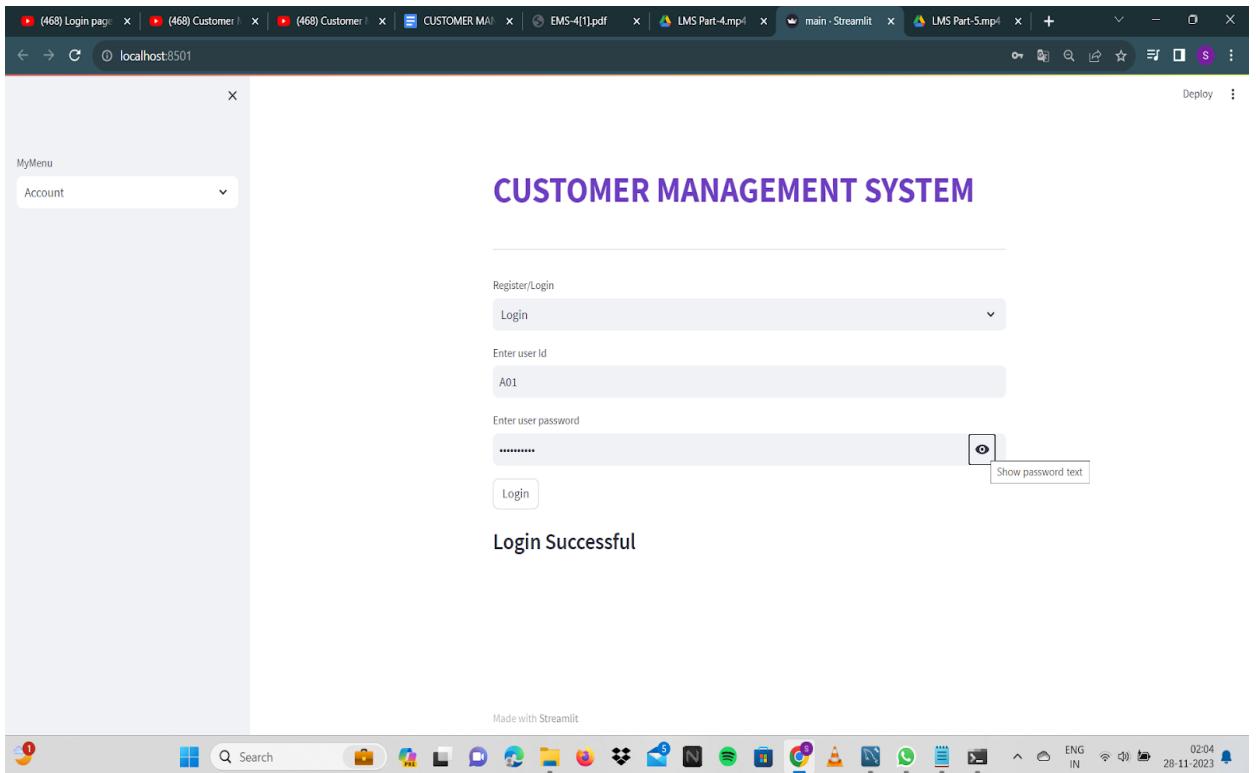
[notice] A new release of pip is available: 23.1.2 -> 23.3.1
[notice] To update, run: C:\My\Scripts\python.exe -m pip install --upgrade pip

```

(My) C:\My projects\Customer\My\Scripts>streamlit run main.py

You can now view your Streamlit app in your browser.

Local URL: <http://localhost:8501>
Network URL: <http://192.168.0.172:8501>



#This is the final code of Streamlit Web Apps

```
import streamlit as st
import mysql.connector
import pandas as pd
st.title(":violet[CUSTOMER MANAGEMENT SYSTEM]")
st.write("---")
choice=st.sidebar.selectbox("MyMenu",("\U0001F3E0 Home","\U0001F9D1 Register an Account","\U0001F4CC Login"))
if(choice=="\U0001F3E0 Home"):
    st.header(":blue[WELCOME]""":sunglasses:"")
    st.write("* Hello This is an Application developed by **Shubham kumar** as a part of Training Project")

st.image("https://previews.123rf.com/images/redeer/redeer1604/redeer160400003/54575173-custom-er-relationship-management-vector-illustration-flat-icons-of-clients-objectives-support.jpg")
    st.subheader("What is Customer Management System ?")
    st.success("* A customer management system is a cluster of all the **systems, processes, and applications** that are needed to manage customer relationships. It is also commonly
```

known as **Customer Relationship Management.")**

st.success("* A **Customer Management System simplifies this by giving sales representatives a detailed view of **client records** so they can send personalized responses and reply within context.")**

st.markdown("* **Here you can: [Learn More >](<https://www.leadsquared.com/learn/sales/what-is-customer-management-system/>)about this project.")**

elif(choice=="\U0001F9D1 Register an Account"):

**usd=st.text_input("Enter user Id")
username=st.text_input("Enter user_name")
mobileno=st.text_input("Enter user_mobileno")**

psd=st.text_input("Enter user password",type='password')

btn=st.button("Create my account")

if btn:

mydb=mysql.connector.connect(host="localhost", user="root",password="12345678",database="customermanagementsystem")

c=mydb.cursor()

```
c.execute("insert into Register  
values(%s,%s,%s,%s)",(usd,username,mobileno,ps  
d))  
mydb.commit()  
st.success("Account created Successfully  
as {}".format(username))  
st.info("Go to Login Menu to Login")  
elif choice=="\U0001F4CC Login":  
    if 'login' not in st.session_state:  
        st.session_state['login']=False  
    usd=st.text_input("Enter user Id")  
    psd=st.text_input("Enter user  
password",type='password')  
    btn=st.button("Login")  
    if btn:  
  
        mydb=mysql.connector.connect(host="localhost",  
        user="root",password="12345678",database="cus  
tomermanagementsystem")  
        c=mydb.cursor()  
        mydb.commit()  
        c.execute("select * from Register")  
        for r in c:  
            if(r[0]==usd and r[3]==psd):  
                st.session_state['login']=True  
                break  
        if(st.session_state['login']==False):
```

```
    st.warning("Incorrect ID or Password")
if(st.session_state['login']==True):
    st.success("Login Successfull")
    st.balloons()

choice2=st.selectbox("Features",("None","Add
Customer","Search Customer","View All
Customer","Registered Customers"))
if(choice2=="Add Customer"):
    cid=st.text_input("Enter customer Id")
    csrname=st.text_input("Enter customer
name")
    cusmail=st.text_input("Enter customer
email")
    age=st.text_input("Enter your age")
    gnd=st.text_input("Enter your gender")
    address=st.text_input("Enter your
address")
    no=st.text_input("Enter your phone
number")
    st.checkbox("I Agree")
    btn2=st.button("Add")
if(btn2):

mydb=mysql.connector.connect(host="localhost",
user="root",password="12345678",database="cus
tomermanagementsystem")
```

```
c=mydb.cursor()
c.execute("insert into customers
values(%s,%s,%s,%s,%s,%s,%s)",(cid,csrname,cu
smail,age,gnd,address,no))
mydb.commit()
st.success("Customer details added
successfully")
elif(choice2=="Search Customer"):
    if 'alogin' not in st.session_state:
        st.session_state['alogin']=False
    cid=st.text_input("Enter customer Id")
    csrname=st.text_input("Enter customer
name")
    btn=st.button("Search")
    if btn:
        mydb=mysql.connector.connect(host="localhost",
user="root",password="12345678",database="cus
tomermanagementsystem")
        c=mydb.cursor()
        mydb.commit()
        c.execute("select * from customers")
        for r in c:
            if(r[0]==cid and r[1]==csrname):
                st.session_state['alogin']=True
                break
        if(st.session_state['alogin']==False):
```

```
    st.warning("Incorrect ID or Name")
if(st.session_state['alogin']==True):
    st.success("Correct Details")
elif(choice2=="View All Customer"):

mydb=mysql.connector.connect(host="localhost",
user="root",password="12345678",database="cus
tomermanagementsystem")
c=mydb.cursor()
c.execute("select * from customers")
l=[]
for r in c:
    l.append(r)

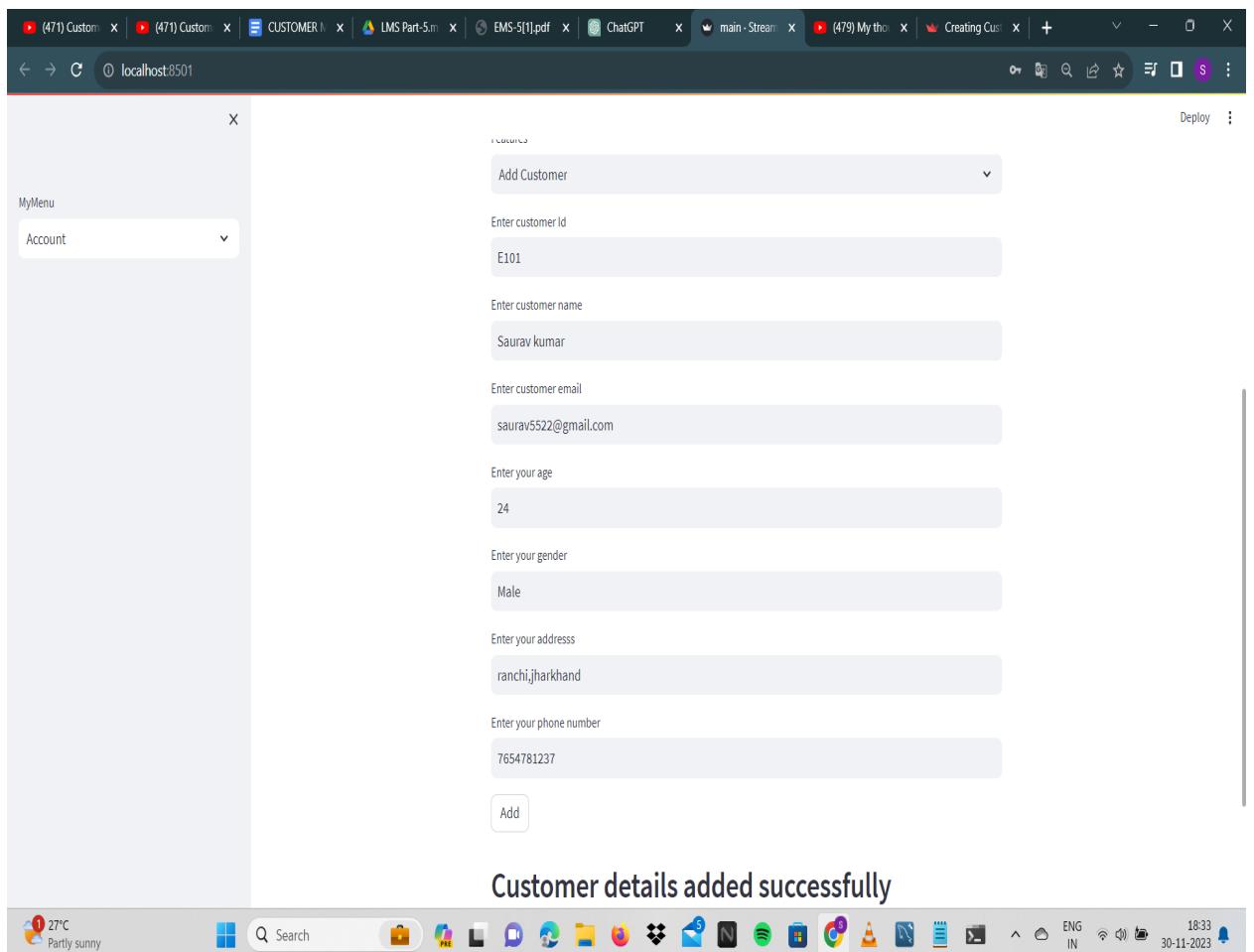
df=pd.DataFrame(data=l,columns=['cus_id','cus_ N
ame','cus_email','cus_age','cus_gender','cus_addr
ess','cus_phoneNo'])
st.dataframe(df)

elif(choice2=="Registered Customers"):

mydb=mysql.connector.connect(host="localhost",
user="root",password="12345678",database="cus
tomermanagementsystem")
c=mydb.cursor()
c.execute("select * from Register")
l=[]
```

```
for r in c:  
    l.append(r)
```

```
df=pd.DataFrame(data=l,columns=['user_id','user_name','user_mobileno','user_password'])  
st.dataframe(df)
```



MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: customerManagementSystem

SCHEMAS

- customer
- customerManagementSystem
- Tables
- Views
- Stored Procedures
- Functions
- employee
- employeeManagementSystem
- power
- sys

SQL Additions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

```

7 • insert into customers values("B01","Anish modi","anish3212@gmail.com","24","Male","Bokaro,jharkhand",7654789244);
8 • insert into customers values("C101","Sakshi kumari","sakshi8590@gmail.com","23","Female","patna,Bihar",9060547623);
9 • insert into customers values("D101","Satyan anand","satyan8765@gmail.com","24","Male","Dhanbad,jharkhand",8210549023);
10 • insert into Register values("A01","Shubham kumar",8434849051,"shubham123");
11 • insert into Register values("B01","Anish modi ",7654789244,"anish@321");
12 • insert into Login values("A01","shubham123");
13 • insert into Login values("B01","anish@321");
14 • select * from customers;
15 • drop table customers;
16 • select * from Register;
17

```

Result Grid

cus_id	cus_Name	cus_email	cus_age	cus_gender	cus_address	cus_phoneNo
A101	Shubham kumar	shubham76547@gmail.com	24	Male	buxar,Bihar	8434049051
B101	Anish modi	anish3212@gmail.com	24	Male	Bokaro,jharkhand	7654789244
C101	Sakshi kumari	sakshi8590@gmail.com	23	Female	patna,Bihar	9060547623
D101	Satyan anand	satyan8765@gmail.com	24	Male	Dhanbad,jharkhand	8210549023
E101	Saurav kumar	saurav5522@gmail.com	24	Male	ranchi,jharkhand	7654781237
NULL	NULL	NULL	NULL	NULL	NULL	NULL

Administration Schemas Information

Schema: customerManagementSystem

customers 22 x

Output

Action Output

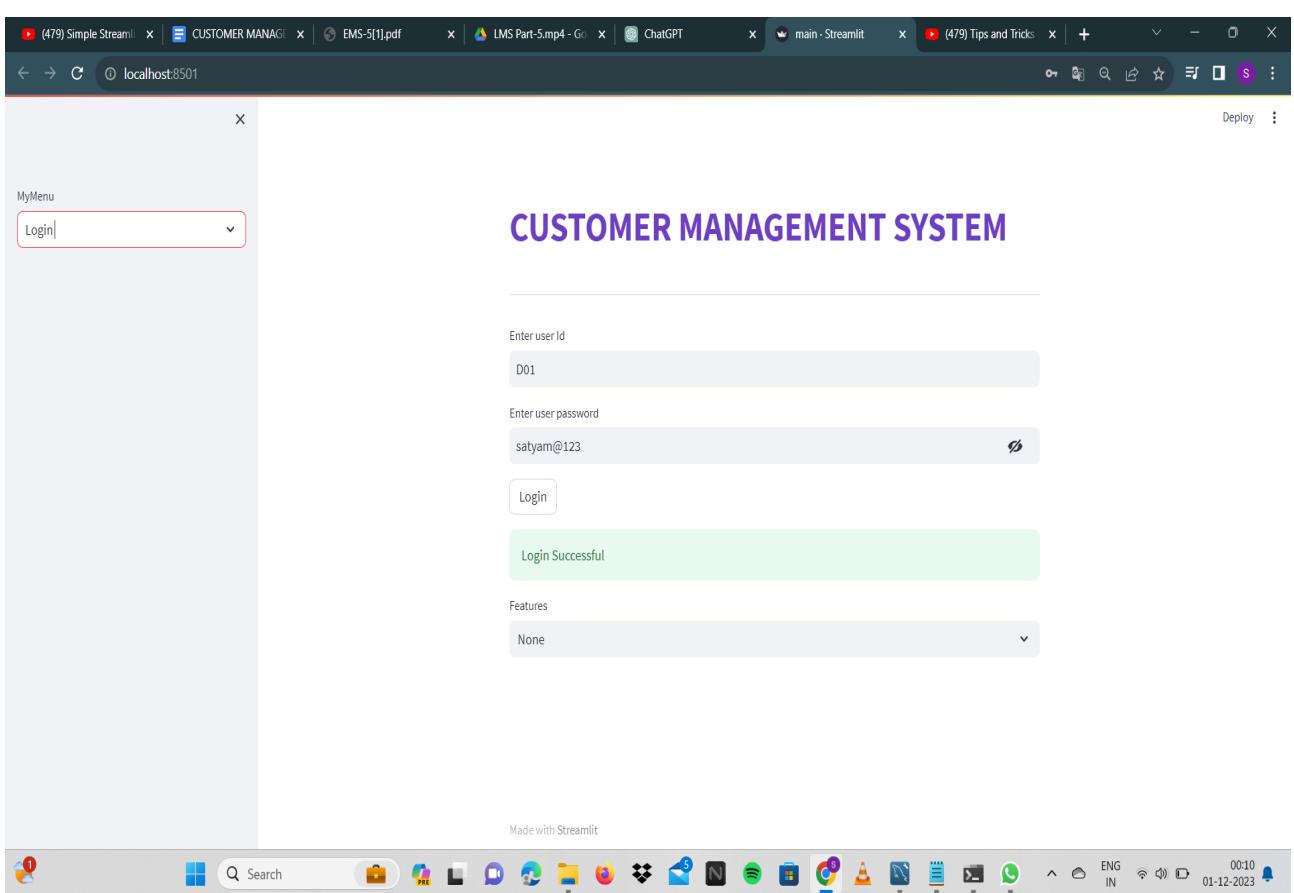
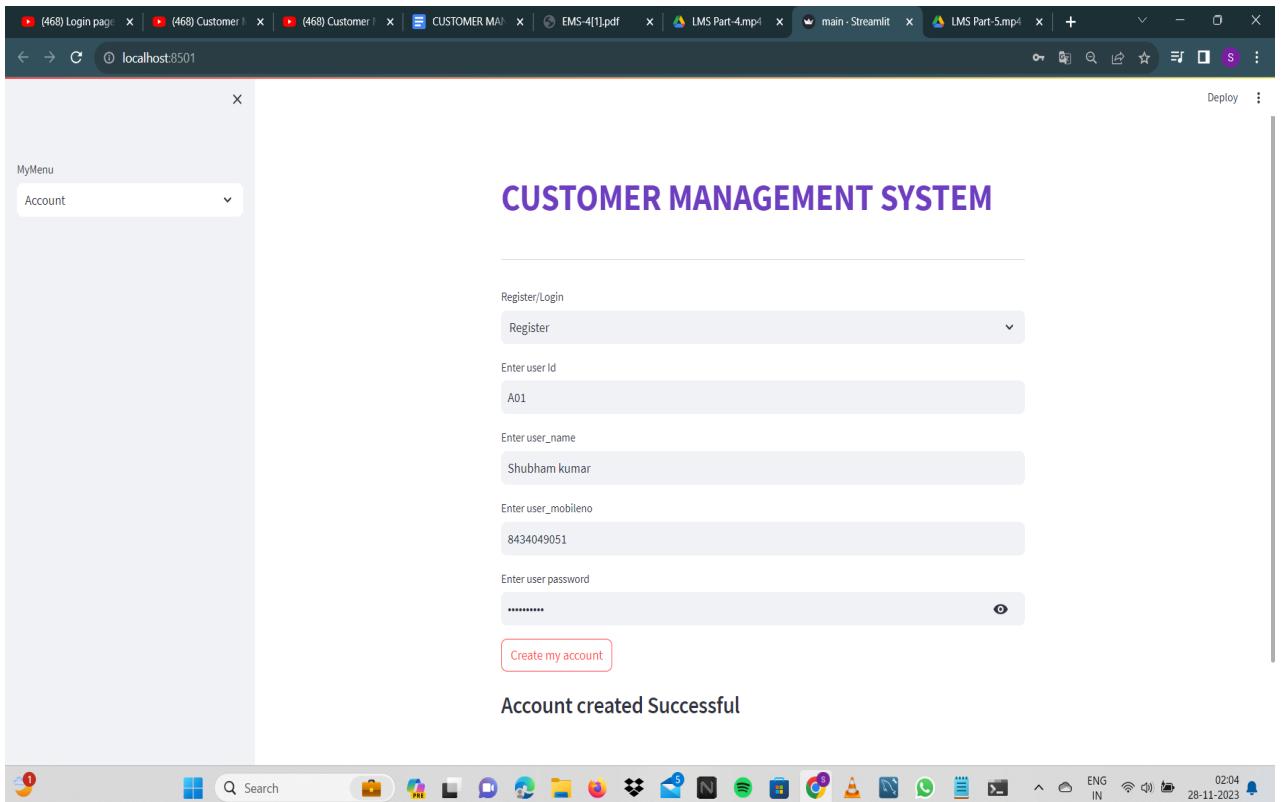
#	Time	Action	Message	Duration / Fetch
51	00:17:00	insert into Login values("B01","anish@321")	Error Code: 1062: Duplicate entry 'B01' for key 'login.PRIMARY'	0.015 sec
52	00:17:04	select * from customers LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
53	00:20:02	select * from Register LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
54	00:21:37	select * from customers LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec
55	00:40:47	select * from Register LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
56	02:16:42	select * from customers LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed

Search

01-12-2023 02:17



localhost:8501

CUSTOMER MANAGEMENT SYSTEM

MyMenu

Login

Enter user Id
D01

Enter user password

Login

Login Successful

Features

View All Customer

	cus_id	cus_Name	cus_email	cus_age	cus_gender	cus_address	c
0							
1	A101	Shubham kumar	shubham76547@gmail.com	24	Male	buxar,bihar	8
2	B101	Anish modi	anish3212@gmail.com	24	Male	Bokaro,jharkhand	7
3	C101	Sakshi kumari	sakshi8590@gmail.com	23	Female	patna,Bihar	9
4	D101	Satyam anand	satyam8765@gmail.com	24	Male	Dhanbad,jharkhand	8
5	E101	Saurav kumar	saurav5522@gmail.com	24	Male	ranchi,jharkhand	7

00:22 ENG IN 01-12-2023

localhost:8501

CUSTOMER MANAGEMENT SYSTEM

MyMenu

Login

Enter user Id
D01

Enter user password

Login

Login Successful

Features

Registered Customers

	user_id	user_name	user_mobileno	user_password
0				
1	A01	Shubham kumar	8434049051	shubham123
2	B01	Anish modi	7654789244	anish@321
3	C01	Sakshi kumari	9060547623	sakshi@123
4	D01	Satyam anand	8210549023	satyam@123

00:22 ENG IN 01-12-2023

localhost:8501

MyMenu

Home

Clients

Objectives

Support

Dealings

What is Customer Management System ?

A customer management system is a cluster of all the **systems, processes, and applications** that are needed to manage customer relationships. It is also commonly known as **Customer Relationship Management**.

A **Customer Management System** simplifies this by giving sales representatives a detailed view of client records so they can send personalized responses and reply within context.

- Here you can: [Learn More](#) about this project.

localhost:8501

MyMenu

Home

Register an Account

Login

CUSTOMER MANAGEMENT SYSTEM

WELCOME 😊

- Hello This is an Application developed by **Shubham kumar** as a part of Training Project

CUSTOMER RELATIONSHIP MANAGEMENT

Clients

Objectives