Python Project

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Project1: Election Voting

Database Query:

```
CREATE DATABASE IF NOT EXISTS election;
```

```
USE election;
```

```
CREATE TABLE IF NOT EXISTS election_candidate (
id INT PRIMARY KEY AUTO_INCREMENT,
Atchaya INT DEFAULT 0,
Ananth INT DEFAULT 0,
Priya INT DEFAULT 0
);
```

INSERT INTO election_candidate (Atchaya, Ananth, Priya) VALUES (0, 0, 0);

Python Code:

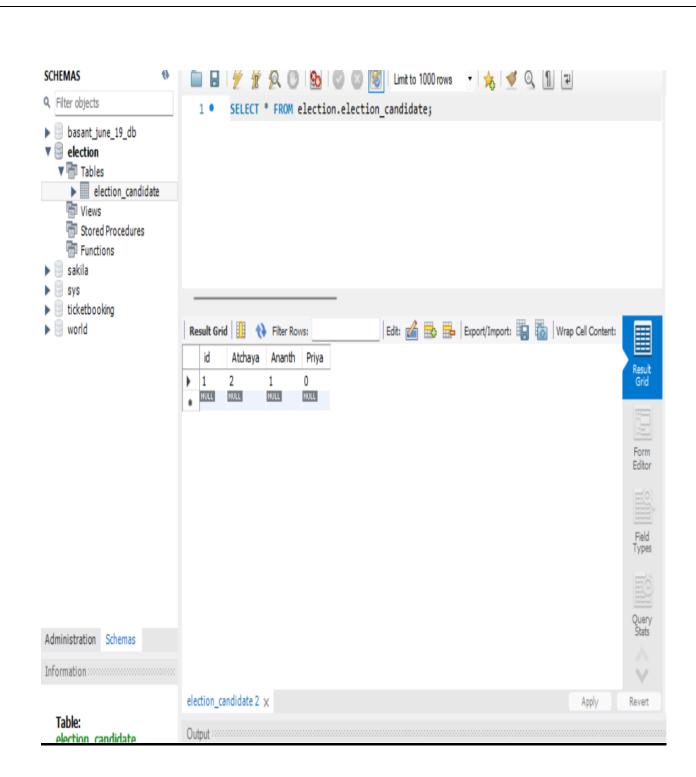
```
import mysql.connector
import datetime
import smtplib
from email.mime.text import MIMEText
# Function to get voter details
def get_voter_details():
    name = input("Enter your name: ")
    email = input("Enter your email: ")
    return name, email
# Function to display candidates
def display candidates():
    print("Select the Candidate listed below")
    print("1. Atchaya")
    print("2. Ananth")
    print("3. Priya")
# Function to update vote in the database
def update vote(candidate number):
    conn = mysql.connector.connect(
        host='localhost',
        user='root',
        password='12345',
        database='election'
    cursor = conn.cursor()
    candidate fields = {1: "Atchaya", 2: "Ananth", 3: "Priya"}
    candidate = candidate fields[candidate number]
    query = f'''
    UPDATE election candidate
    SET {candidate} = {candidate} + 1
    WHERE id = 1
    cursor.execute(query)
    conn.commit()
    conn.close()
# Function to record voter details
def record voter(name, email):
    with open('voters.txt', 'a') as file:
        file.write(f"{name}, {email}, {datetime.datetime.now()}\n")
# Function to send email confirmation
```

```
def send email(email):
    msg = MIMEText("Thank you for voting!")
    msg['Subject'] = "Voting Confirmation"
    msg['From'] = 'atchayaananth2005@gmail.com'
    msg['To'] = email
    with smtplib.SMTP('smtp.gmail.com', 587) as server:
        server.starttls()
        server.login('atchayaananth2005@gmail.com', 'qiuf oyvp fpzc
wfvz')
        server.send_message(msg)
# Main function
def main():
    name, email = get voter details()
    display candidates()
    choice = int(input("Enter the number of the candidate you want
to vote for: "))
    update_vote(choice)
    record voter(name, email)
    send email(email)
    print("Thank you for voting!")
if __name__ == "__main__":
    main()
```

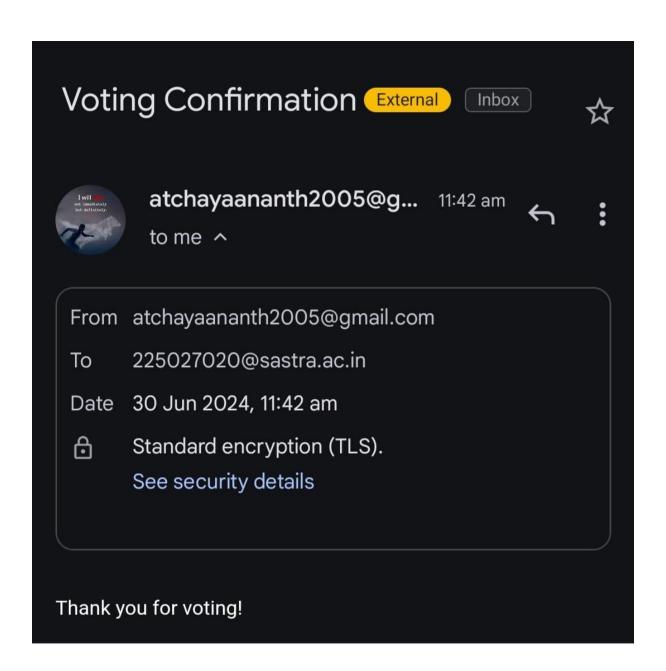
```
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/F
Enter your name: Atchaya
Enter your email: 225027020@sastra.ac.in
Select the Candidate listed below
1. Atchaya
2. Ananth
3. Priya
Enter the number of the candidate you want to vote for: 1
Thank you for voting!
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/F
Enter your name: Ananth
Enter your email: sudhanananth@gmail.com
Select the Candidate listed below
1. Atchava
Ananth
3. Priya
Enter the number of the candidate you want to vote for: 2
Thank you for voting!
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/F
Enter your name: Sudhan
Enter your email: 225027020@sastra.ac.in
Select the Candidate listed below
1. Atchava
2. Ananth
3. Priva
Enter the number of the candidate you want to vote for: 1
Thank you for voting!
PS D:\Python basant\Election>
```

Txt file Append:

Database updated:



Email:



Project2: Booking Ticket

Database Query:

Create database ticketbooking;

Use ticketbooking;

```
CREATE TABLE bookings (
sno INT AUTO_INCREMENT PRIMARY KEY,
booker_name VARCHAR(100),
theater_name VARCHAR(100),
movie_title VARCHAR(100),
number_of_tickets INT,
seat_numbers VARCHAR(50),
total_amount DECIMAL(10, 2)
);
```

Theater1.txt file:

Maharaja,150

Kalki,170

Pt sir,120

Theater2.txt file:

Garudan,150

Star, 180

Rasavathi,140

Theater3.txt file:

Aranmanai4,160

Kanguva,200

Goat,250

Python Program:

```
import smtplib
import mysql.connector
def connect():
    return mysql.connector.connect(
        host='localhost',
        user='root',
        password='12345',
        database='ticketbooking'
def add_booking(cursor, booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount):
    query = """
    INSERT INTO bookings (booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount)
    VALUES (%s, %s, %s, %s, %s)
    cursor.execute(query, (booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount))
def get_bookings(cursor):
    query = "SELECT * FROM bookings"
    cursor.execute(query)
    return cursor.fetchall()
def read_movies(file_path):
   movies = []
    with open(file_path, 'r') as file:
        for line in file:
            title, price = line.strip().split(',')
            movies.append((title, float(price)))
    return movies
def display_movies(movies):
    for theater, movie_list in movies.items():
        print(f"Theater: {theater}")
        for title, price in movie_list:
            print(f" Movie: {title}, Price: {price:.2f}")
def send_email(booker_name, booker_email, theater_name, movie_title,
number of tickets, seat numbers, total amount):
    body = (
```

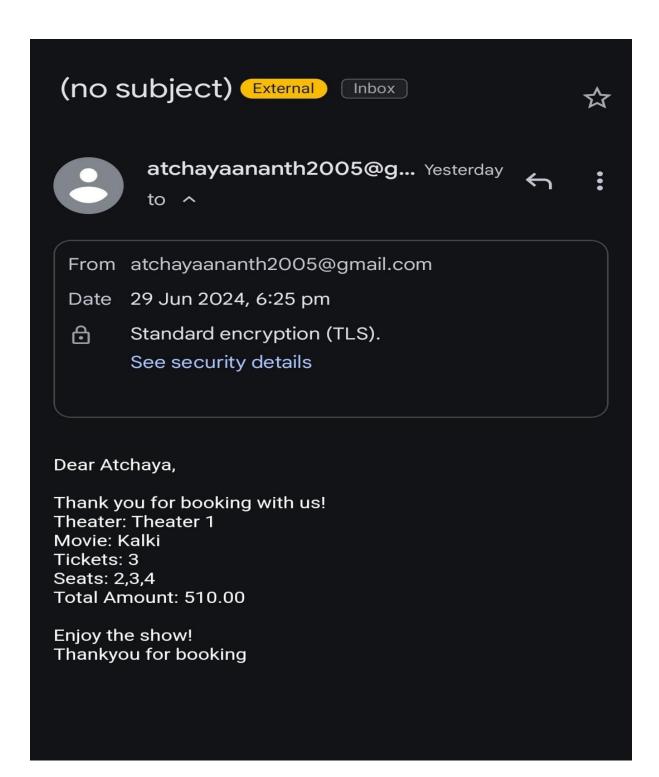
```
f"Dear {booker_name},\n\n"
        f"Thank you for booking with us!\n"
        f"Theater: {theater name}\n"
        f"Movie: {movie title}\n"
        f"Tickets: {number of tickets}\n"
        f"Seats: {seat numbers}\n"
        f"Total Amount: {total_amount:.2f}\n\n"
        f"Enjoy the show!\n"
       f"Thankyou for booking\n"
    s=smtplib.SMTP('smtp.gmail.com',587)
    s.starttls()
    s.login("atchayaananth2005@gmail.com","kegb abbl fpid bvgx")
    s.sendmail("atchayaananth2005@gmail.com",booker_email,body)
    s.quit()
    print("Mail sent Successfully")
def main():
    db = connect()
    cursor = db.cursor()
    # Read movie details from text files
    theaters = {
        "Vasu Theater": "theater1.txt",
        "Kasi Theater": "theater2.txt",
        "MSM Theater": "theater3.txt"
    movie_data = {theater: read_movies(file) for theater, file in
theaters.items()}
    # Display movies
    display_movies(movie_data)
    # Booking process
    booker_name = input("Enter your name: ")
    booker_email = input("Enter your email: ")
    theater_name = input("Enter theater name: ")
    movie_title = input("Enter movie title: ")
    number_of_tickets = int(input("Enter number of tickets: "))
    seat_numbers = input("Enter seat numbers (comma-separated): ")
    # Calculate total amount
    movie_price = None
    for theater, movies in movie_data.items():
        if theater == theater_name:
            for title, price in movies:
                if title == movie_title:
                   movie price = price
```

```
break
    if movie_price is None:
        print("Movie not found!")
        return
    total_amount = number_of_tickets * movie_price
    print(f"Total amount: {total_amount:.2f}")
    # Add booking to database
    add_booking(cursor, booker_name, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount)
    db.commit()
    # Append booking details to a file
    with open('bookings.txt', 'a') as file:
        file.write(f"Name: {booker_name}, Theater: {theater_name}, Movie:
{movie_title}, "
                   f"Tickets: {number_of_tickets}, Seats: {seat_numbers},
Total Amount: {total_amount:.2f}\n")
    # Send confirmation email
    send_email(booker_name, booker_email, theater_name, movie_title,
number_of_tickets, seat_numbers, total_amount)
    # Display all bookings
    bookings = get_bookings(cursor)
    for booking in bookings:
        print(booking)
    cursor.close()
    db.close()
if __name__ == "__main__":
     main()
```

Output:

```
PS D:\Python basant\moviebooking> & C:/Users/Atchaya/AppData/Local/Programs/Pyt
Theater: Vasu Theater
  Movie: Maharaja, Price: 150.00
  Movie: Kalki, Price: 170.00
  Movie: Pt sir, Price: 120.00
Theater: Kasi Theater
  Movie: Garudan, Price: 150.00
  Movie: Star, Price: 180.00
  Movie: Rasavathi, Price: 140.00
Theater: MSM Theater
  Movie: Aranmanai4, Price: 160.00
  Movie: Kanguva, Price: 200.00
  Movie: Goat, Price: 250.00
Enter your name: Priya
Enter your email: sudhanananth@gmail.com
Enter theater name: Kasi Theater
Enter movie title: Star
Enter number of tickets: 4
Enter seat numbers (comma-separated): 8,9,10,11
Total amount: 720.00
Mail sent Successfully
(1, 'Atchaya', 'Theater 1', 'Kalki', 3, '2,3,4', Decimal('510.00'))
(2, 'Ananth', 'Theater 3', 'Goat', 2, '5,7', Decimal('500.00'))
(3, 'Priya', 'Kasi Theater', 'Star', 4, '8,9,10,11', Decimal('720.00'))
```

Email:



Text File Append:

```
■ bookings.txt

1 Name: Atchaya, Theater: Theater 1, Movie: Kalki, Tickets: 3, Seats: 2,3,4, Total Amount: 510.00

2 Name: Ananth, Theater: Theater 3, Movie: Goat, Tickets: 2, Seats: 5,7, Total Amount: 500.00

3 Name: Priya, Theater: Kasi Theater, Movie: Star, Tickets: 4, Seats: 8,9,10,11, Total Amount: 720.00

4

4
```

Database Updated:

