

# 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()

```

**Output:**

```
PS D:\Python basant\Election> & C:/Users/Atchaya/AppData/Local/Programs/Python/P
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/P
Enter your name: Ananth
Enter your email: sudhanananth@gmail.com
Select the Candidate listed below
1. Atchaya
2. 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/P
Enter your name: Sudhan
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> |
```

### **Txt file Append:**

```
≡ voters.txt
1 Atchaya, 225027020@sastra.ac.in, 2024-06-30 11:43:19.454026
2 Ananth, sudhanananth@gmail.com, 2024-06-30 11:45:18.365864
3 Sudhan, 225027020@sastra.ac.in, 2024-06-30 11:48:32.159116
4
```

### **Database updated:**

**SCHEMAS**

Filter objects

- ▶ basant\_june\_19\_db
- ▼ election
  - ▶ Tables
    - ▶ election\_candidate
  - ▶ Views
  - ▶ Stored Procedures
  - ▶ Functions
- ▶ sakila
- ▶ sys
- ▶ ticketbooking
- ▶ world

1 • `SELECT * FROM election.election_candidate;`

Limit to 1000 rows

Result Grid

	id	Atchaya	Ananth	Priya
▶	1	2	1	0
•	NULL	NULL	NULL	NULL

Filter Rows: Edit: Export/Import: Wrap Cell Content:

Result Grid

Form Editor

Field Types

Query Stats

Administration Schemas

Information

Table: election\_candidate

election\_candidate 2 x Apply Revert

Output

**Email:**

# Voting Confirmation

External

Inbox



atchayaananth2005@g...

11:42 am



to me ^

From atchayaananth2005@gmail.com

To 225027020@sastra.ac.in

Date 30 Jun 2024, 11:42 am



Standard encryption (TLS).

[See security details](#)

Thank you for voting!

**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, %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/Python/Python38-64/Python.exe moviebooking.py
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:**

(no subject)

External

Inbox



atchayaananth2005@g... Yesterday

to ^



From atchayaananth2005@gmail.com

Date 29 Jun 2024, 6:25 pm



Standard encryption (TLS).

[See security details](#)

Dear Atchaya,

Thank you for booking with us!

Theater: Theater 1

Movie: Kalki

Tickets: 3

Seats: 2,3,4

Total Amount: 510.00

Enjoy the show!

Thankyou for booking

**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
```

## Database Updated:

[illegible]

