

Event Ticket Booking System

Get Started

F O R E F F O R T L E S S B O O K I N G



Problem Statement

Users often struggle with finding, comparing, and securely booking tickets for entertainment events, including challenges with seat selection and ticket availability.

Event managers face difficulties in managing ticket sales, tracking availability, preventing overbooking, and ensuring secure transactions.



01

02

03



Objective

Learning Objective: Python, Flask, mySQL, Docker

Scalable: Capable of handling multiple events or users.

Security: Implements user authentication, data encryption, and role-based access control.

01

02

03



Our Solution

A web application designed to allows users to browse, search, and book tickets for a variety of entertainment events.

02

03

Manage Events

Create, edit, or delete events.

[Go to Events](#)

View Sales Reports

View detailed reports on ticket sales and revenue.

[Go to Reports](#)

Booking Management

Manage user bookings, cancellations, and reassign seats.

[Go to Booking Management](#)

04 Nov 2024



Upcoming Events

01

Sun, 17:00

Dec

2024

Reggae Vibes

Beachside Venue

View Event

Available Tickets: 4

05

Thu, 20:00

Dec

2024

Metal Night

Arena X

View Event

Available Tickets: 4

15

Sun, 19:00

Dec

2024

Rock Night Live

Downtown Arena

View Event

Available Tickets: 8

Raphaelle, you're going to Theater Play B!

Event Date: Sun, 01 December 2024, 18:00

Venue: Theater 2

Seats:

- B2

Total Amount Paid: \$150.00

Your tickets have been confirmed. You will receive a confirmation email with the details of your purchase shortly.

Search for More Events

Friend's Email

Share

Rock Night Live

Sun, 15 December 2024, 19:00

Downtown Arena

Description: A high-energy concert featuring top rock bands.

Select Your Seats

Stage

A1A10A2A3A4A5A6A7A8A9

Proceed to Payment

Manage My Bookings

Event Name	Date	Seats Booked	Total Amount	Status	Action
Theater Play B	2024-12-01 18:00:00	1	\$150.00	confirmed	<div>CancelUpdatePrint</div>

Return to Home



Tech Stack

Back-End Technologies

Python

Flask web framework

MySQL Relational database management system

SQLAlchemy Object-Relational Mapping (ORM)

Infrastructure

Docker

Front-End Technologies

HTML/CSS

Bootstrap responsive interfaces

Jinja2

JavaScript

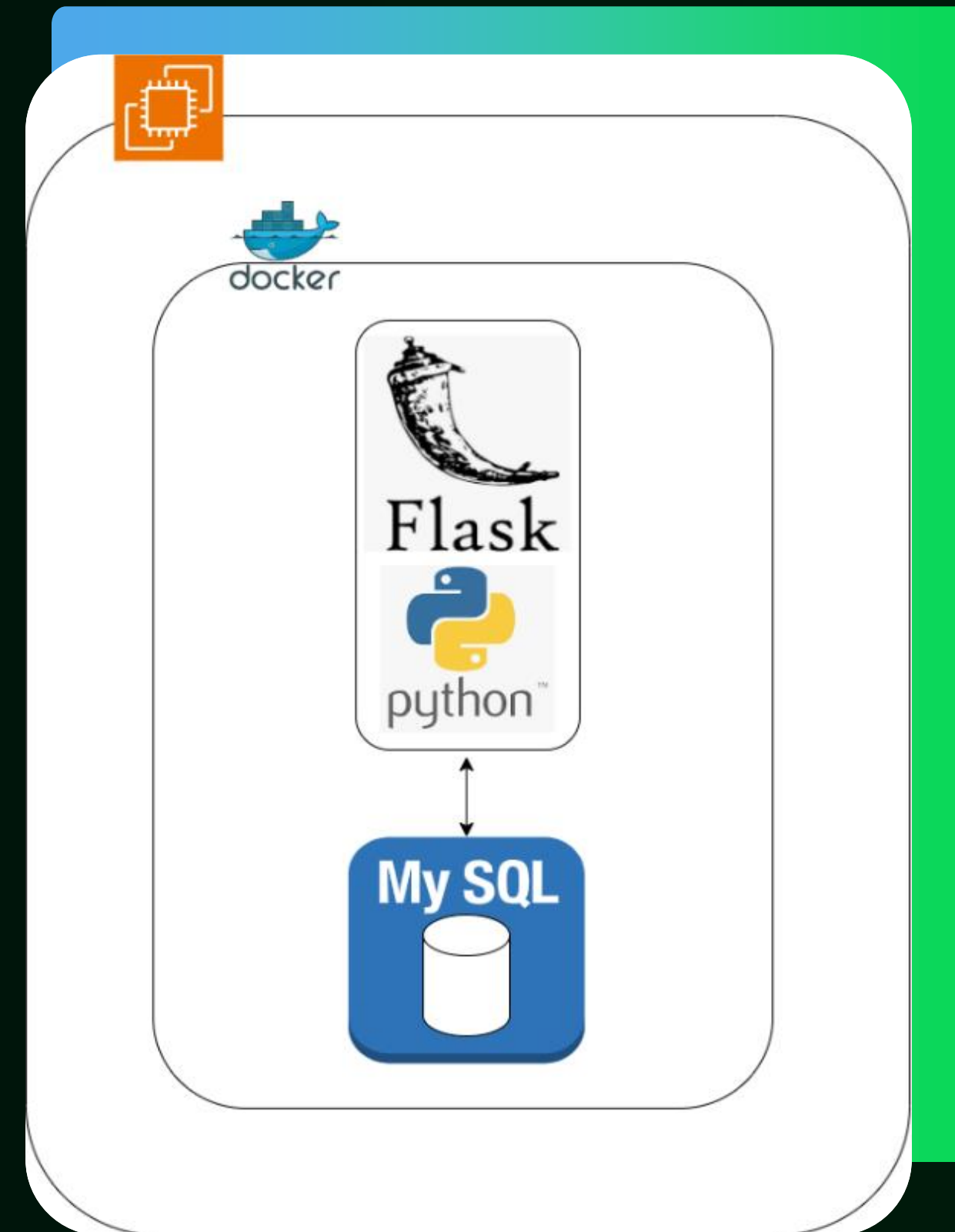
Other Tools /Platforms

Github



Architecture

```
✓ Network event_ticket_booking_system_app-network Created
✓ Container mysql-db Started
✓ Container flask-app Started
```







Data Integrity

ON DELETE CASCADE

```
FOREIGN KEY (role_id) REFERENCES role(role_id) ON DELETE CASCADE
```

NOT NULL

```
title VARCHAR(255) NOT NULL,
```

COMPOSITE UNIQUES

```
UNIQUE(event_id, seat_number)
```

ENCRYPTED DATA STORAGE

```
card_number VARBINARY(255) NOT NULL,
```

TRIGGERS

```
CREATE TRIGGER after_ticket_insert
AFTER INSERT ON ticket
FOR EACH ROW
BEGIN
    UPDATE seat
    SET is_available = FALSE
    WHERE seat_id = NEW.seat_id;
```

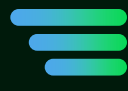


User Features

04 Nov 2024



Filter & Browse



Browse Events

Price Range

Min price

Max price

Date

dd/mm/yyyy



Venue

Add Venue

Search

Upcoming Events

01 Sun, 17:00

Dec

2024

Reggae Vibes

Beachside Venue

View Event

Available Tickets: 4

05 Thu, 20:00

Dec

2024

Metal Night

Arena X

View Event

Available Tickets: 3

```
# Apply additional filters to current events
if price_from is not None and price_until is not None:
    current_events_query = current_events_query.join(EventTicketTier).join(TicketTier).filter(
        TicketTier.price >= price_from, TicketTier.price <= price_until
    )
elif price_from is not None:
    current_events_query = current_events_query.join(EventTicketTier).join(TicketTier).filter(TicketTier
elif price_until is not None:
    current_events_query = current_events_query.join(EventTicketTier).join(TicketTier).filter(TicketTier

if date:
    current_events_query = current_events_query.filter(db.func.date(Event.start_date) == date)

if selected_venues:
    current_events_query = current_events_query.filter(Event.venue.in_(selected_venues))
```

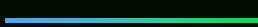
01

```
# Query for future events (start date beyond the next 3 months)
future_events = db.session.query(Event).filter(
    Event.start_date > three_months_later
).order_by(Event.start_date.asc()).all()

# Identify events for promotional emails (booking start within the next month)
upcoming_events_for_promotion = db.session.query(Event).filter(
    Event.booking_open_time > now,
    Event.booking_open_time <= one_month_later
).all()
```

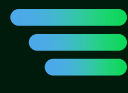
02

04 Nov 2024





Select & Send Event



Rock Night Live

Sun, 15 December 2024, 19:00

Downtown Arena

Description: A high-energy concert featuring top rock bands.

Select Your Seats

Stage

A1

A10

A2

A3

A4

A5

A6

A7

A8

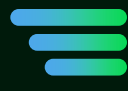
A9

01

02



Secure Payment Process



Payment Details



Use saved payment details

Cardholder Name:

John Smith

Card Type:

Visa

Card Number:

6564647564736574

Expiration Date:

December 2025

Billing Address:

Forest Way Lodge



Would you like to save your payment details to this account?



I agree to the [Terms and Conditions](#)

Pay \$150.00

```
1 usage  rsmthrepo
def encrypt_card_number(card_number: str) -> bytes:
    encrypted_number = cipher_suite.encrypt(card_number.encode())
    return encrypted_number
```

```
1 usage  rsmthrepo
def decrypt_card_number_last_4_digits(encrypted_number: bytes) -> str:
    decrypted_number = cipher_suite.decrypt(encrypted_number).decode()
    return decrypted_number[-4:]
```

```
1 usage  rsmthrepo
def decrypt_card_number(encrypted_number: bytes) -> str:
    decrypted_number = cipher_suite.decrypt(encrypted_number).decode()
    return decrypted_number
```

01

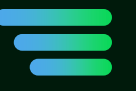
```
if save_payment_details:
    expiration_date_str = expiration_date + '-01'
    encrypted_card_number = encrypt_card_number(card_number)
    # Update all other payment details for this user to not be default
    PaymentDetail.query.filter_by(user_id=user.user_id).update({'default_payment': False})
    payment_detail = PaymentDetail(
        user_id=user.user_id,
        card_type=card_type,
        card_number=encrypted_card_number,
        cardholder_name=cardholder_name,
        expiration_date=expiration_date_str,
        billing_address=billing_address,
        default_payment=True
    )
    db.session.add(payment_detail)
    db.session.flush()
```

02

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Manage Profile



Welcome, Raphaelle

Your Details

First Name: Raphaelle

Second Name: Smyth

Username: smythr29

Email: Raphaelle.Smyth@gmail.com

Your Payment Details

Cardholder Name	Card Type	Card Number	Billing Address	Default Payment
Raphaelle	Visa	..4886	Forest Way Lodge	<input type="radio"/>
Raphaelle	MasterCard	..8395	Forest Way Lodge	<input checked="" type="radio"/>

```
# Decrypt only the last 4 digits of each card number for display
for payment in payment_details:
    payment.card_number = decrypt_card_number_last_4_digits(payment.card_number)
```

```
payment_id = request.form.get('default_payment')
if not payment_id:
    flash(message="No payment ID provided", category="error")
    return redirect(url_for('profile'))

# Proceed with update logic
PaymentDetail.query.filter_by(user_id=user_id).update({"default_payment": False})
default_payment = PaymentDetail.query.get(payment_id)
if default_payment and default_payment.user_id == user_id:
    default_payment.default_payment = True
    db.session.commit()
```

01

02



Use Default Payment



Payment for Rock Night Live

Event Details

Event Date: Sun, 15 December 2024, 19:00

Venue: Downtown Arena

- Seat: A7
- Seat: A6

Total Amount: \$150.00

Payment Details



Use saved payment details



I agree to the [Terms and Conditions](#)

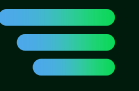
Pay \$150.00

01

02



Manage My Bookings



EVENT BOOKING SYSTEM

Home

My Bookings

Manage Bookings

Profile

Logout

Manage My Bookings

Event Name	Date	Seats Booked	Total Amount	Status	Action
Reggae Vibes	2024-12-01 17:00:00	2	\$100.00	confirmed	<div>CancelUpdatePrint</div>

Return to Home

```
@app.route('/bookingmanagement')  rsmythrepo
@login_required
def booking_management():
    if 'user_id' not in session:
        flash(message="Please log in to manage your bookings.", category="error")
        return redirect(url_for('login'))

    user_id = session['user_id']
    # Fetch bookings for the logged-in user
    user_bookings = Booking.query.filter_by(user_id=user_id).all()
    event_ids = [booking.event_id for booking in user_bookings]
    user_events = Event.query.filter(Event.event_id.in_(event_ids)).all()

    # Create a dictionary of events by their ID
    event_dict = {event.event_id: event for event in user_events}

    return render_template(template_name_or_list='booking_management.html', bookings=user_bookings, event_dict=event_dict)

@app.route('/cancel_booking/<int:booking_id>', methods=['POST'])  rsmythrepo
@login_required
def cancel_booking(booking_id):
    booking = Booking.query.get(booking_id)
    if not booking or booking.booking_status == 'cancelled':
        flash(message="Booking not found or already canceled.", category="error")
        return redirect(url_for('booking_management'))

    # Update booking status to cancelled
    booking.booking_status = 'cancelled'
    db.session.add(booking)
```

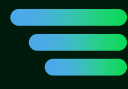
01

02

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View my bookings



My Bookings

Event Name	Date	Seats Booked	Total Amount	Status
Reggae Vibes	2024-12-01 17:00:00	2	\$100.00	confirmed
Reggae Vibes	2024-12-01 17:00:00	0	\$100.00	cancelled

Return to Home

```
rsmythrepo
@app.route('/mybookings')
@login_required
def my_bookings():
    if 'user_id' not in session:
        flash("Please log in to view your bookings.", "error")
        return redirect(url_for('login'))

    user_id = session['user_id']
    user_bookings = Booking.query.filter_by(user_id=user_id).all()
    event_ids = [booking.event_id for booking in user_bookings]
    user_events = Event.query.filter(Event.event_id.in_(event_ids)).all()

    # Create a dictionary mapping event_id to the event object
    event_dict = {event.event_id: event for event in user_events}

    return render_template('booking_summary.html', bookings=user_bookings, events=event_dict)
```

01

02



Ticket printing



Reggae Vibes - 2024-12-01 17:00:00

Event: Reggae Vibes
Date: 2024-12-01 17:00:00
Seats Booked: 2
Total Amount: \$100.00
Status: confirmed

Thank you for booking with us!

Please, see the QR code attached.



2024
Event Booking™

```
@app.route('/print_booking/<int:booking_id>')
def print_booking(booking_id):

    #QR Code system
    booking = Booking.query.get_or_404(booking_id)
    event = Event.query.get_or_404(booking.event_id)
    buffer = BytesIO()
    qr_data = f"Booking ID: {booking.booking_id}, Event: {event.title}, Date: {event.start_date.strftime('%Y-%m-%d %H:%M:%S')}"
    qr_img = qrcode.make(qr_data)
    with tempfile.NamedTemporaryFile(delete=False, suffix='.png') as temp_file:
        qr_img.save(temp_file, format='PNG')
        temp_file_path = temp_file.name

    #creating template for pdf
    c = canvas.Canvas(buffer, pagesize=letter)
    pdf_title = f"Booking Confirmation - {event.title} on {event.start_date.strftime('%Y-%m-%d')}"
    c.setTitle(pdf_title)
    width, height = letter
    event_date = event.start_date.strftime('%Y-%m-%d %H:%M:%S')
    title = f"{event.title} - {event_date}"
    c.setFont("Helvetica-Bold", 18)
    c.drawString(72, height - 72, title)
    c.setFont("Helvetica", 12)
    c.drawString(72, height - 100, f"Event: {event.title}")
    c.drawString(72, height - 120, f"Date: {event_date}")
    c.drawString(72, height - 140, f"Seats Booked: {len(booking.seats)}")
    c.drawString(72, height - 160, f"Total Amount: ${booking.total_amount}")
    c.drawString(72, height - 180, f"Status: {booking.booking_status}")
    c.drawString(72, 320, "Please, see the QR code attached.")
    c.drawImage(temp_file_path, 72, 100, width=200, height=200)
    c.drawString(72, height - 250, "Thank you for booking with us!")
    c.setFont("Helvetica-Oblique", 10)
    year_text = "2024"
    trademark_text = "Event Booking™"
```

01

02

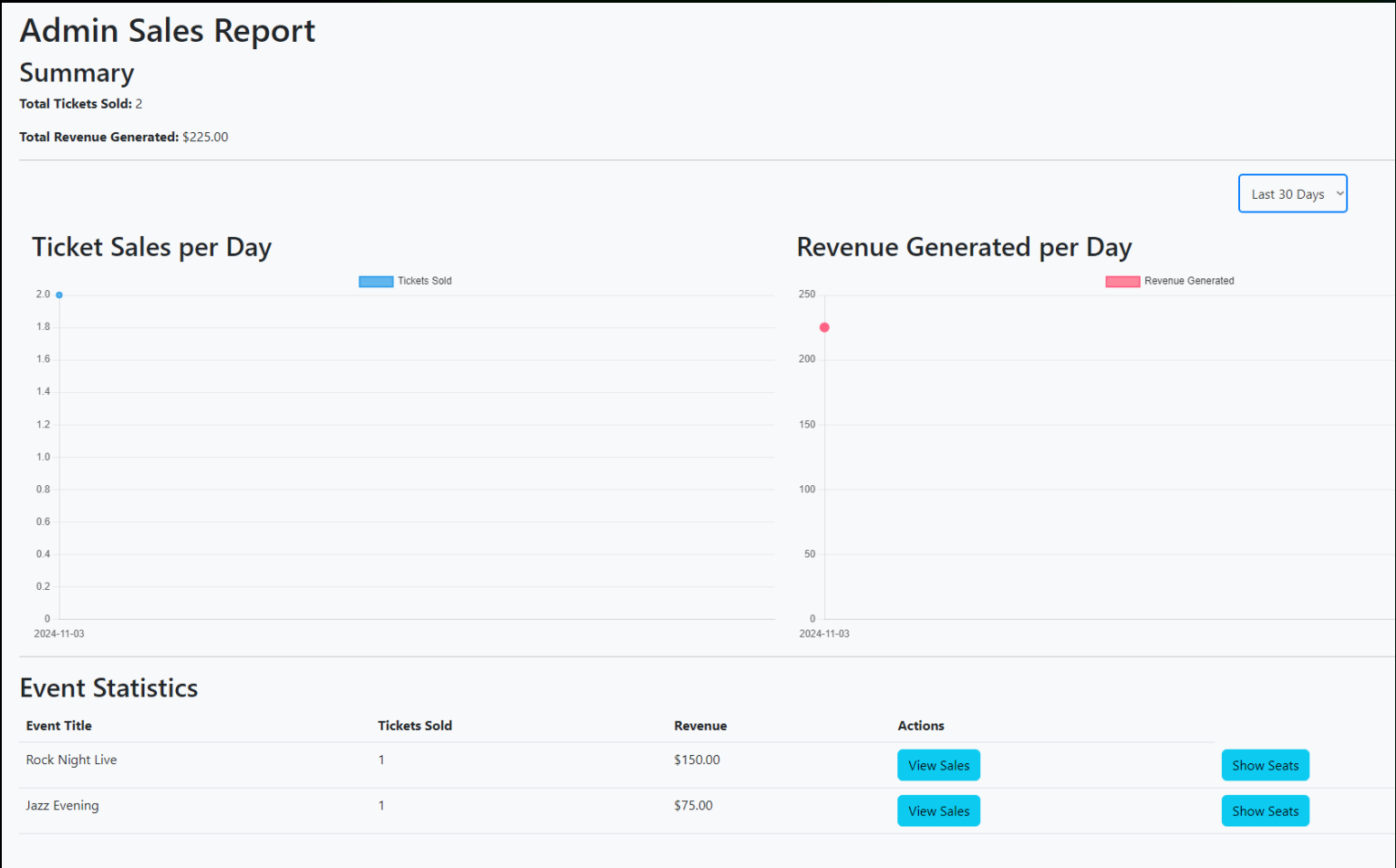
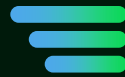


Admin Features

04 Nov 2024

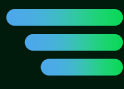


Sales report





Sales report



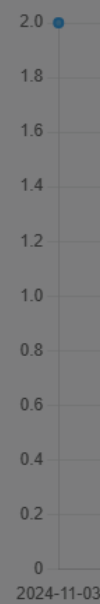
Admin Sales Report

Summary

Total Tickets Sold: 2

Total Revenue Generated: \$225.00

Ticket Sales per Day



Sales Data for Rock Night Live



Close

Revenue Gen



```
<div class="modal-body">
  <canvas id="ticketsChart{{ loop.index }}" style="height: 200px;"></canvas>
  <canvas id="revenueChart{{ loop.index }}" style="height: 200px;"></canvas>
</div>
<div class="modal-footer">
  <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
```

```
fetch( input: `/admin/event_sales/${index}` ) Promise<Response>
  .then(response => {
    if (!response.ok) {
      throw new Error('Network response was not ok');
    }
    return response.json();
  }) Promise<any>
  .then(data => {
    const ticketSalesLabels = data.ticket_sales_labels;
    const ticketSalesData = data.ticket_sales_data;
    const revenueData = data.revenue_data;
    const ctxTickets = document.getElementById( elementId: 'ticketsChart' + index ).getContext( contextId: '2d' );
    const ticketsChart = new Chart( ctxTickets, {
      type: 'line',
      data: {
        labels: ticketSalesLabels,
        datasets: [{
          label: 'Tickets Sold',
          data: ticketSalesData,
          backgroundColor: 'rgba(54, 162, 235, 0.2)',
          borderColor: 'rgba(54, 162, 235, 1)',
          borderWidth: 1,
          fill: true
        }]
      }
    },
```

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Seat monitoring



Event Statistics

Event Title	Tickets Sold	Revenue	Actions	
Rock Night Live	1	\$150.00	<button>View Sales</button>	<button>Show Seats</button>
Jazz Evening	1	\$75.00	<button>View Sales</button>	<button>Show Seats</button>

Available Seats for Rock Night Live

Stage

A1 A10 A2 A3 A4 A5 A6
A7 A8 A9

Available Seats: 8

Close

```
function startSeatPolling(eventId, index) {
  setInterval( handler: () => fetchAvailableSeats(eventId, index), timeout: 1000); // fetching every second
}

1 usage  ➦ YuriMaisuradze
function fetchAvailableSeats(eventId, index) {
  fetch( input: `/admin/event_available_seats/${eventId}` ) Promise<Response>
    .then(response => {
      if (!response.ok) {
        throw new Error('Network response was not ok');
      }
      return response.json();
    }) Promise<any>
    .then(data => {
      const seatContainer = document.getElementById( elementId: `seat-container${index}` );
      seatContainer.innerHTML = '';

      const cols = 7;
      const seats = data.seats;
      const seatCount = seats.length;
      const rows = Math.ceil( x: seatCount / cols );

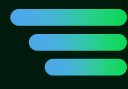
      for (let row = 0; row < rows; row++) {
        const seatRow = document.createElement( tagName: 'div' );
        seatRow.className = 'seat-row';

        for (let col = 0; col < cols; col++) {
          const seatIndex = row * cols + col;
          if (seatIndex < seatCount) {
            const seat = seats[seatIndex];
            const seatDiv = document.createElement( tagName: 'div' );
            seatDiv.className = 'seat';
            seatDiv.setAttribute( qualifiedName: 'data-seat-number', seat.seat_number );
            seatDiv.style.margin = '5px';
            seatDiv.style.cursor = seat.is_available ? 'pointer' : 'not-allowed';
            seatDiv.style.opacity = seat.is_available ? '1' : '0.5';
            seatDiv.onclick = seat.is_available ? function() { selectSeat(this); } : null;
          }
        }
      }
    })
}
```

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Manage Events



EVENT BOOKING SYSTEM

Admin Menu

Dashboard

Manage Events

Sales Reports

Booking Management

Logout

Manage Events

Create New Event

The Beatles

Date: 2024-11-20 11:39:00 | Venue: Liverpool

Tickets Sold: 0/11

Reggae Vibes

Date: 2024-12-01 17:00:00 | Venue: Beachside Venue

Tickets Sold: 2/350

Metal Night

Date: 2024-12-05 20:00:00 | Venue: Arena X

Tickets Sold: 0/600

Rock Night Live

Date: 2024-12-15 19:00:00 | Venue: Downtown Arena

Tickets Sold: 2/500

Jazz Evening

Date: 2024-12-20 18:00:00 | Venue: City Jazz Club

Tickets Sold: 0/200

Pop Music Festival

Date: 2025-01-10 14:00:00 | Venue: Open Air Park

Tickets Sold: 0/1000

Hip-Hop Bash

Date: 2025-01-20 19:00:00 | Venue: City Sports Arena

Tickets Sold: 0/800

Classical Night

Date: 2025-01-25 20:00:00 | Venue: Grand Concert Hall

Tickets Sold: 0/300

Electronic Dance Festival

Date: 2025-02-05 20:00:00 | Venue: City Stadium

Tickets Sold: 0/1500

EVENT BOOKING SYSTEM

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Sales Reports

Booking Management

Logout

Create New Event

Event Title

Description

Venue

Start Date

End Date

Booking Start Time

Booking Close Time

Ticket Tiers

Add Another Tier

Create Event

```
def create_event():
    if request.method == 'POST':
        title = request.form.get('title')
        description = request.form.get('description')
        venue = request.form.get('venue')
        start_date = request.form.get('start_date')
        end_date = request.form.get('end_date')

        # Get booking open and close times from the form
        booking_open_time = request.form.get('booking_open_time')
        booking_close_time = request.form.get('booking_close_time')

        # Ensure datetime fields are parsed correctly
        start_date = datetime.strptime(start_date, '%Y-%m-%d %H:%M')
        end_date = datetime.strptime(end_date, '%Y-%m-%d %H:%M')
        booking_open_time = datetime.strptime(booking_open_time, '%Y-%m-%d %H:%M')
        booking_close_time = datetime.strptime(booking_close_time, '%Y-%m-%d %H:%M')

        ticket_tiers = request.form.getlist('ticket_tiers')
        tier_prices = request.form.getlist('tier_prices')
        tier_seat_counts = request.form.getlist('tier_seat_counts')

        try:
            tier_seat_counts = [int(count) for count in tier_seat_counts]
            total_tickets = sum(tier_seat_counts)
        except ValueError:
            flash('Invalid ticket counts', category='error')
            return redirect(url_for('admin_events'))

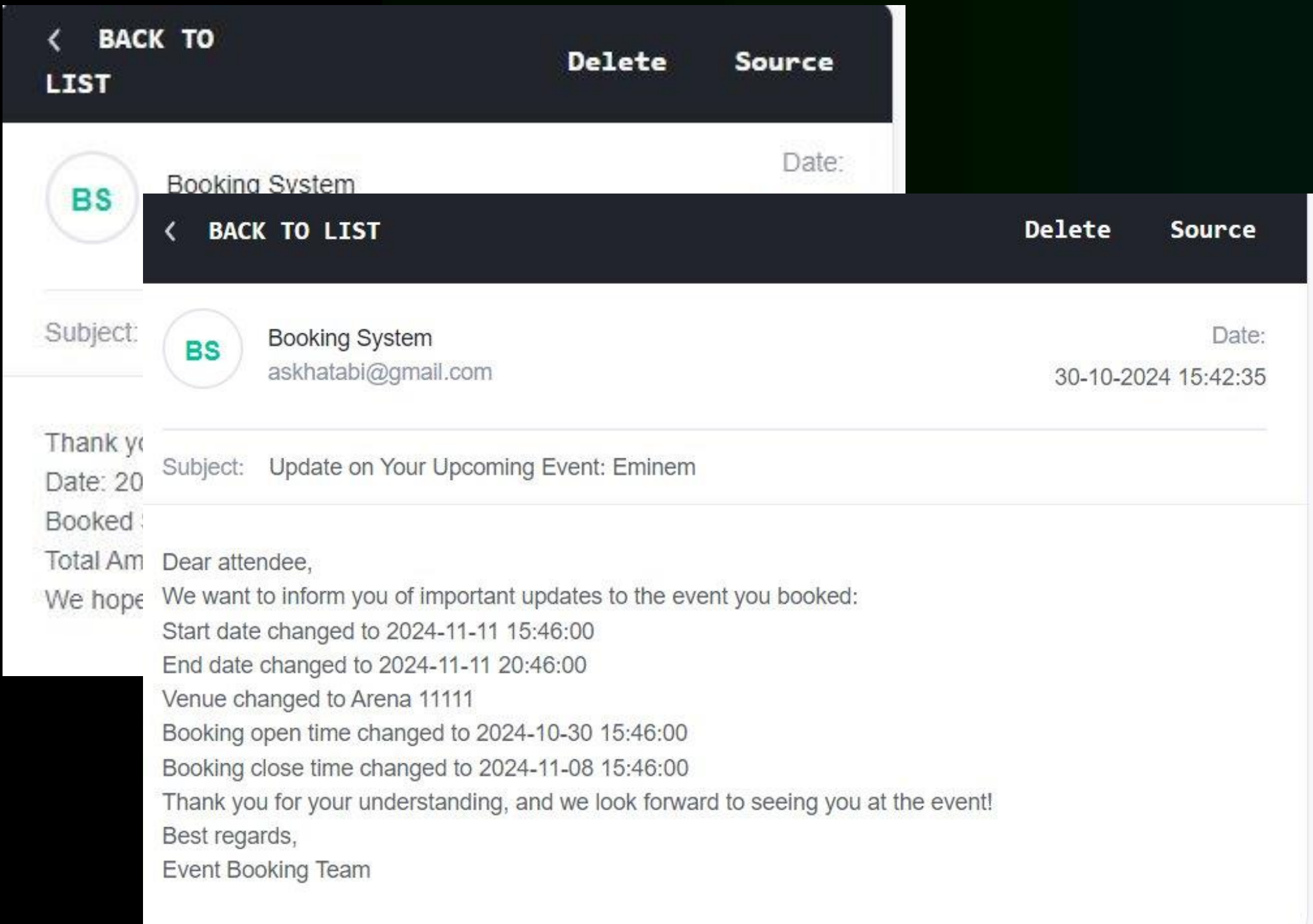
    @app.route('/admin/update_event/<int:event_id>', methods=['GET', 'POST'])
    @login_required
    def update_event(event_id):
        if not is_admin():
            flash('Unauthorized access!', category='error')
            return redirect(url_for('homepage'))

        # Fetch the event from the database
        event = Event.query.get(event_id)
        if not event:
            flash('Event not found!', category='error')
            return redirect(url_for('admin_events'))

        # Capture original details for change detection
        original_details = {
            'title': event.title,
            'start_date': event.start_date,
            'end_date': event.end_date,
            'venue': event.venue,
            'booking_open_time': event.booking_open_time,
            'booking_close_time': event.booking_close_time,
            'ticket_price': {tier.tier_id: tier.ticket_tier.price for tier in event.ticket_tiers}
        }

        if request.method == 'POST':
            # Update event details from the form
            event.title = request.form['title']
            event.start_date = datetime.strptime(request.form['start_date'], '%Y-%m-%d %H:%M')
```

04 Nov 2024



04 Nov 2024



Toil



Automation of database reload

```
# Drop and recreate production database
execute_command "mysql -u $MYSQL_USER -p$MYSQL_PASSWORD -e 'DROP DATABASE IF EXISTS $PRODUCTION_DB;'"
execute_command "mysql -u $MYSQL_USER -p$MYSQL_PASSWORD -e 'CREATE DATABASE $PRODUCTION_DB;'"

# Load DDL and DML into production database
execute_command "mysql -u $MYSQL_USER -p$MYSQL_PASSWORD $PRODUCTION_DB < $DDL_FILE"
execute_command "mysql -u $MYSQL_USER -p$MYSQL_PASSWORD $PRODUCTION_DB < $DML_FILE"
```




Testing

```
def test_event_details_route(self):  
    # Test a successful event details fetch  
    response = self.client.get(f'/event/{self.event.event_id}')  
    self.assertEqual(response.status_code, 200)  
    self.assertIn(b"Test Event", response.data)
```

```
def test_login_successful(self):  
    response = self.client.post('/login', data={  
        'username': 'testuser',  
        'password': 'password123'  
    }, follow_redirects=True)  
    self.assertEqual(response.status_code, 200)  
    with self.client.session_transaction() as sess:  
        self.assertIn('user_id', sess)  
        self.assertEqual(sess['username'], 'testuser')
```



Containerization

Inbound rules <small>Info</small>						
Security group rule ID	Type <small>Info</small>	Protocol <small>Info</small>	Port range <small>Info</small>	Source <small>Info</small>	Description - optional <small>Info</small>	
sgr-0ca3fce89302ab06b	Custom TCP	TCP	5000	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>
sgr-0aa2c740308b503f0	HTTP	TCP	80	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>
sgr-0c538111bbfc0f92d	Custom TCP	TCP	5201	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>
sgr-09f44ed331de02e49	MySQL/Aurora	TCP	3306	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>
sgr-03d26032b7826ef98	SSH	TCP	22	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>
sgr-0cd7d3e8f9f5b240f	Custom TCP	TCP	8080	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>
sgr-0c504903d84ba2eb4	HTTPS	TCP	443	Custom	<input type="text" value="Q"/> <input type="text" value="0.0.0.0/0"/> <input type="button" value="X"/>	<input type="button" value="Delete"/>

Configure Security Groups:

- Allow **SSH (port 22)**, **HTTP (port 80)**, and **Custom TCP (e.g., port 5000)**.

```
sudo amazon-linux-extras install docker -y
sudo service docker start
sudo usermod -a -G docker ec2-user # Add user to Docker group
```



Project 2



Containerization

```
FROM python:3.9-slim

WORKDIR /app

COPY requirements.txt /app/
RUN pip install --no-cache-dir -r requirements.txt

COPY . /app

ENV FLASK_APP=run.py
ENV ENCRYPTION_KEY="$(cat /app/secrets/encryption_key)"

EXPOSE 5000

CMD ["flask", "run", "--host=0.0.0.0"]
```

Dockerfile

```
version: '3.8'

services:
  flask-app:
    build: .
    container_name: flask-app
    ports:
      - "5000:5000"
    depends_on:
      - mysql-db
    environment:
      - FLASK_APP=run.py
      - ENCRYPTION_KEY=CCbTLcKE3XcX-dUUoV1RcXNjiBchflFe1ROvnELcVJ8=
      - DB_USER=root
      - DB_PASSWORD=root
      - DB_HOST=mysql-db # Use the service name for Docker networking
      - DB_NAME=event_bookings
    volumes:
      - ./app
    networks:
      - app-network

  mysql-db:
    image: mysql:8.0
    container_name: mysql-db
    environment:
      MYSQL_ROOT_PASSWORD: root
      MYSQL_DATABASE: event_bookings
    volumes:
      - ./database_setup/sql_setup:/docker-entrypoint-initdb.d
    ports:
      - "3306:3306"
    networks:
      - app-network

networks:
  app-network:
    driver: bridge
```

Docker-compose.yml

```
Flask==3.0.3
Werkzeug>=2.0
MarkupSafe==3.0.2
SQLAlchemy==2.0.36
blinker==1.8.2
cachelib==0.13.0
cffi==1.17.1
chardet==5.2.0
click==8.1.7
colorama==0.4.6
cryptography==43.0.3
Flask-Mail==0.10.0
Flask-Session==0.8.0
Flask-SQLAlchemy==3.1.1
Flask-WTF==1.2.2
greenlet==3.1.1
itsdangerous==2.2.0
Jinja2==3.1.4
msgspec==0.18.6
mysql-connector-python==9.1.0 # Keep this
Pillow==11.0.0
qrcode==8.0
reportlab==4.2.5
typing-extensions==4.12.2
WTForms==3.2.1
```

requirements.txt



Containerization

EVENT BOOKING SYSTEM

HomeMy BookingsManage BookingsProfileLogout

Browse Events

Price Range

Min price

Max price

Date

dd/mm/yyyy

Venue

Add Venue

Search

Upcoming Events

01 Dec 2024

Sun, 17:00

Reggae Vibes

Beachside Venue

Available Tickets: 2

View Event

05 Dec 2024

Thu, 20:00

Metal Night

Arena X

Available Tickets: 4

View Event

15 Dec 2024

Sun, 19:00

Rock Night Live

Downtown Arena

Available Tickets: 8

View Event

20 Dec 2024

Fri, 18:00

Jazz Evening

City Jazz Club

Available Tickets: 10

View Event

EVENT BOOKING SYSTEM

Admin Menu

Dashboard

Manage Events

Sales Reports

Booking Management

Logout

Admin Dashboard

Welcome to the admin dashboard! Here you can manage events, view sales reports, and handle bookings.

Manage Events

Create, edit, or delete events.

Go to Events

View Sales Reports

View detailed reports on ticket sales and revenue.

Go to Reports

Booking Management

Manage user bookings, cancellations, and reassign seats.

Go to Booking Management

sudo docker-compose up --build -d

```
[ec2-user@ip-172-31-44-137 event_ticket_booking_system]$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
197f4f08586f	event_ticket_booking_system-flask-app	"flask run --host=0.0.0.0"	12 seconds ago	Up 10 seconds	0.0.0.0:5000->5000/tcp, :::5000->5000/tcp	flask-app
e82ab21213e5	mysql:8.0	"docker-entrypoint.s..."	12 seconds ago	Up 11 seconds	0.0.0.0:3306->3306/tcp, :::3306->3306/tcp, 33060/tcp	mysql-db

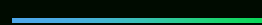
```
[ec2-user@ip-172-31-44-137 event_ticket_booking_system]$
```

04 Nov 2024



Demo

04 Nov 2024



GitHub

Academy

mThree

Contributors

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Questions?