

The video Link

<https://youtu.be/u0XgDEjwWHQ>

KOmTech Tech is a leading tech event management platform that provides comprehensive event planning and execution services. Komt Tech has grown to serve clients across Ghana, including corporations, non-profit organizations, and private clients. We utilize the digital space by providing an online platform that is secure, reliable, efficient and convenient for many event organizers in Ghana allowing them to connect event organizers and their customers. The company's mission is to simplify the event planning process by offering a one-stop solution for all event-related needs, ensuring that every event, from small private gatherings to large corporate conferences, is executed flawlessly. Our database allows us to keep track of all event details and with just a push of a button, our customers will have access to the information of the event they are looking into such as the designated venue, number of tickets available and sold, and the vendors allocated for each event.

OPERATIONS OF THE DATABASE FOR Kom TECH

1. Event management: One of the major operations of the database will be for the creation, update, and deletion of events by event organizers. Event organizers can add event details (event name, venue, time, number of tickets) to their roster, make changes to the

events and delete them if they wish to cancel the event.

2. Ticket management: Another operation the database will implement is the addition of different types of tickets (i.e VVIP, VIP, regular etc), updating ticket availability and information such as the price of the ticket, deleting or managing sold out tickets or cancelled tickets to ensure efficient sales and effective tracking of tickets.

3. Attendee management: With the help of the database, users can register for events they would like to attend. Their information will be added (name, number, event name) and stored. Users can also update their information on the tickets and delete their tickets to request a refund. Finally, organizers can use the attendee information to improve their ticket management plan for the event.

4. Generating reports: The database will help create reports such as ticket sales, attendee list, reviews and feedback and financial statements for event organizers.

5. Venue management: The database will help event organizers add new venues with details

(location name, capacity). They will update the venue if already reserved and delete the event venue.

6. Vendor management: The database will allow the organizers to add the information of the vendors that will be available for their respective events. They will update the vendor list as vendors register or leave.

ENTITIES AND ATTRIBUTES:

Event: attributes (eventId (Pk), eventName, venueId (Fk), eventTime, numberOfTickets, organizerId, vendorId) – strong entity

Ticket: attributes (ticketId (Pk), ticketType, Price, availability, eventID (Fk)) -strong entity

Attendee: attributes (attendeId (Pk), FName, Lname, contactInfo, eventID (Fk), ticketId (Fk)) -strong entity

Venue: attributes (venueId (Pk), venueName, location, capacity) -strong entity

Organizer: attributes (organizerId (Pk), organizerName, contactInfo) – strong entity

Vendors: attributes (vendorId (Pk), vendorName, contactInfo) – strong entity

AttendanceTrack: attributes (ATId (PK), attendeeId (FK), eventId (FK), attended) - weak entity

EventsVendor: attributes (EVID, vendorId (FK), eventId (FK)) - weak entity

PaymentTransactions: attributes (PTId (PK), saleID (FK), paymentMethod, amount, transactionDate) - weak entity

TicketSales: attributes (salesId (PK), ticketId, attendeeId, PTId) - weak entity

TicketType: attributes (typeId, typeName) - weak entity

RELATIONSHIPS:

Plans: relationship between organizer and event

Has a: relationship between event and venue, and between tickets and ticketType

Belongs to: relationship between ticket and event

Has: relationship between event and vendor

Attends: relationship between attendee and event

Purchases: relationship between attendee and ticket

Tracks: relationship between AttendanceTrack and attendee

LIST OF ENTERPRISE RULES

1. An event is planned by one organizer and an organizer can plan many events.
2. An event is hosted at one venue and one venue can host many events separately.
3. An event can have multiple vendors, and each vendor can participate in multiple events.
4. Each event has multiple tickets available for purchase.
5. Each ticket belongs to one ticket type, and each ticket type has a unique name and ID.
6. Each ticket is associated with one event.
7. An attendee can purchase multiple tickets.
8. An attendee can attend multiple events, and an event can have multiple attendees.

9. Attendance is tracked for each attendee at each event, and each event is tracked to see which attendees attended.
10. Each ticket sale is associated with one attendee and one ticket.
11. Each payment transaction is associated with one sale.
12. Each payment transaction must include a payment method, amount, and transaction date.
13. Each venue has a specific location and capacity.