



CSE302: Database Systems (Section No.7) [FALL 25]

Project Report

https://github.com/MahAbubALamBadHon/ewu_event_management/upload/main

<https://github.com/kamrulhasan-arch/Ewu-event-management>

<https://github.com/sanzidasultanarupai/EWU-event-management>

EWU Event Management WebApp

Submitted by (Group8):

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1. Project Description

The objective of this project is to design and implement a **web-based event management system** for East West University (EWU), enabling:

- Efficient management of events, venues, meals, bookings, and finances.
- Role-based access for **Administrators** and **Customers**.
- Real-time validation of bookings, payments, and guest limits.
- Automated financial recording and reporting.

2. Key Features

Administrative Functions:

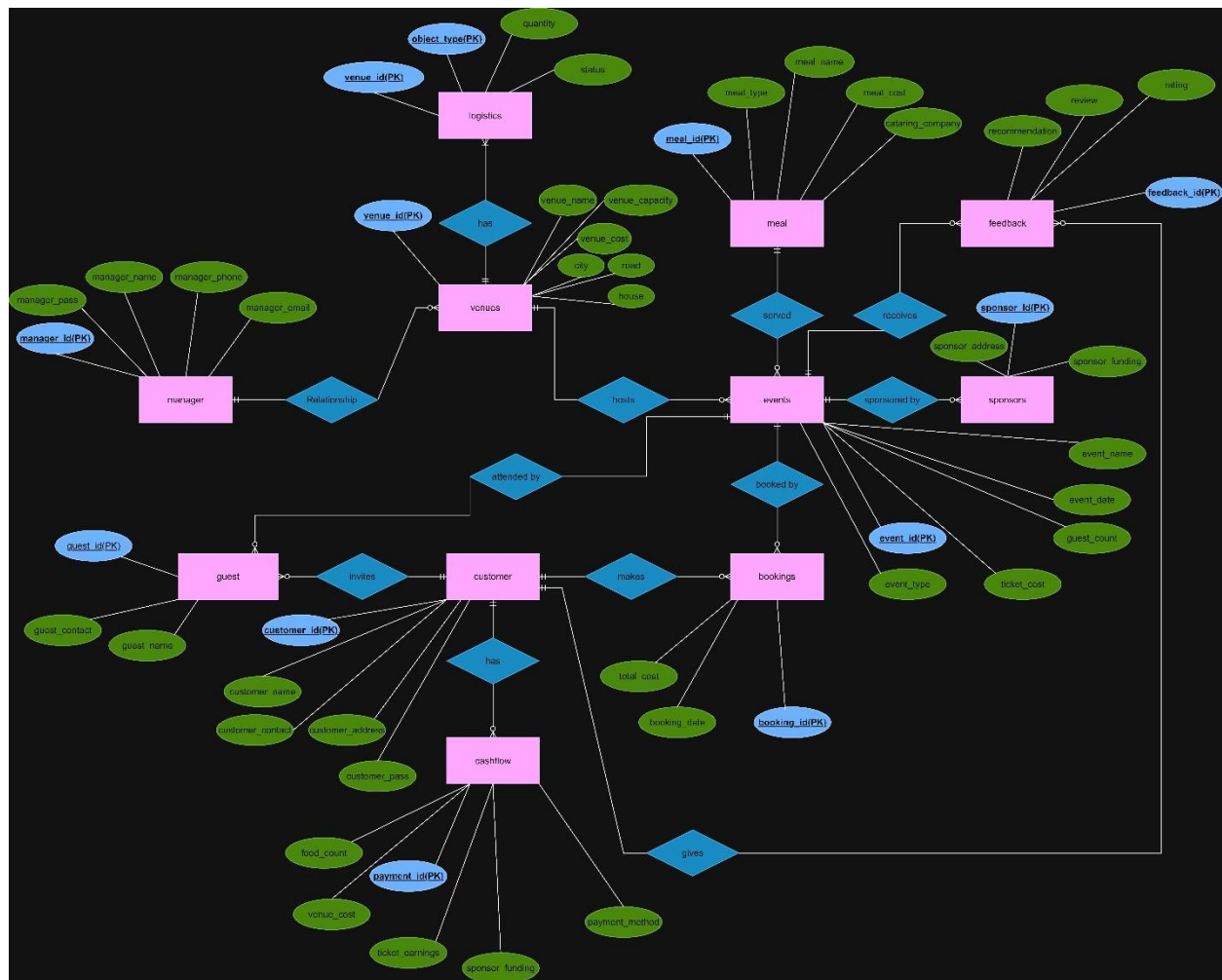
- Add, edit, and delete events
- Manage venues and meal packages
- Monitor bookings and payments
- View reports (event summary, booking details)

Customer Functions:

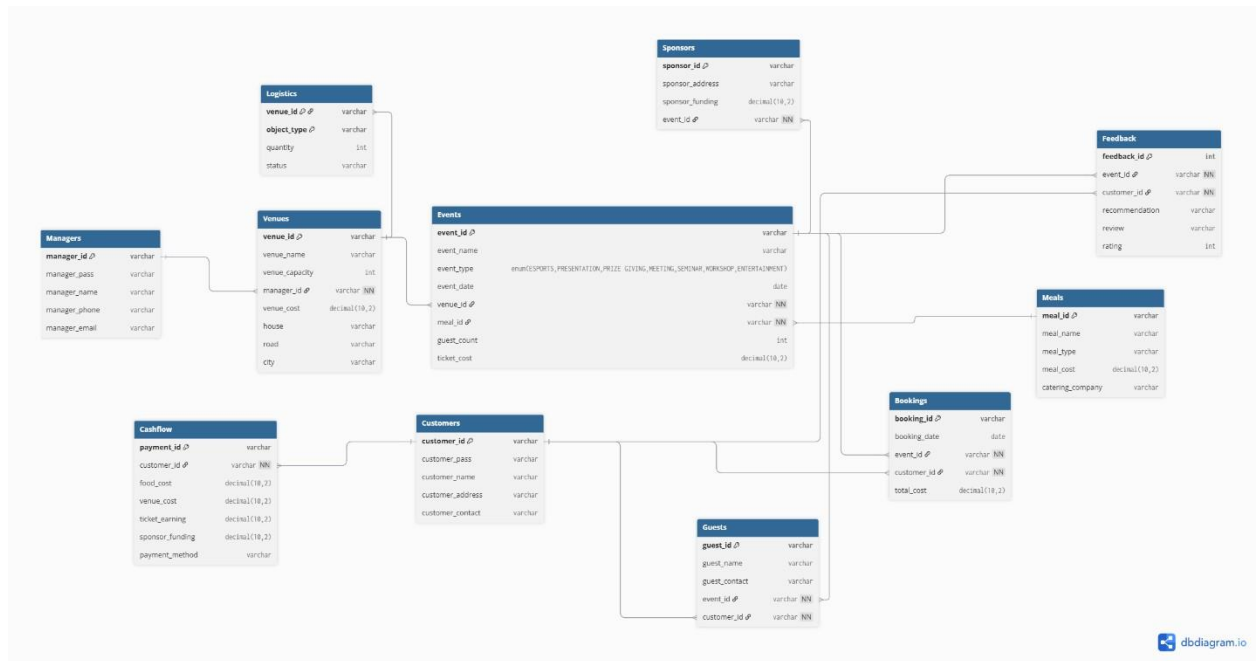
- Register and login securely
- View events and book tickets
- Receive booking confirmation and payment details
- View personal booking history

3. Database Design

3.1 E-R Model



3.2 Relational Data Model



MANAGER

- └─ manager_id VARCHAR(5) [PRIMARY KEY]
- └─ manager_pass VARCHAR(60) [NOT NULL]
- └─ manager_name VARCHAR(100)
- └─ manager_phone VARCHAR(20)
- └─ manager_email VARCHAR(100)

VENUES

- └─ venue_id VARCHAR(5) [PRIMARY KEY]
- └─ venue_name VARCHAR(100)
- └─ venue_capacity INT
- └─ manager_id VARCHAR(5) [FOREIGN KEY → Managers.manager_id]
- └─ venue_cost DECIMAL(12,2)
- └─ house VARCHAR(100)
- └─ road VARCHAR(100)
- └─ city VARCHAR(100)

MEALS

- |— meal_id VARCHAR(5) [PRIMARY KEY]
- |— meal_name VARCHAR(100)
- |— meal_type VARCHAR(50)
- |— meal_cost DECIMAL(12,2)
- |— catering_company VARCHAR(100)

EVENTS

- |— event_id VARCHAR(5) [PRIMARY KEY]
- |— event_name VARCHAR(100)
- |— event_type ENUM('ESPORTS','PRESENTATION','PRIZE GIVING','MEETING','SEMINAR','WORKSHOP','ENTERTAINMENT')
- |— event_date DATE
- |— venue_id VARCHAR(5) [FOREIGN KEY → Venues.venue_id]
- |— meal_id VARCHAR(5) [FOREIGN KEY → Meals.meal_id]
- |— guest_count INT
- |— ticket_cost DECIMAL(12,2)
- |— UNIQUE CONSTRAINT (venue_id, event_date, event_type)

CUSTOMERS

- |— customer_id VARCHAR(5) [PRIMARY KEY]
- |— customer_pass VARCHAR(60) [NOT NULL]
- |— customer_name VARCHAR(100)
- |— customer_address VARCHAR(200)
- |— customer_contact VARCHAR(20)

BOOKINGS

- |— booking_id VARCHAR(5) [PRIMARY KEY]
- |— booking_date DATE
- |— event_id VARCHAR(5) [FOREIGN KEY → Events.event_id CASCADE DELETE] |—
- customer_id VARCHAR(5) [FOREIGN KEY → Customers.customer_id CASCADE DELETE]
- |— total_cost DECIMAL(12,2)

GUESTS

- |— guest_id VARCHAR(5) [PRIMARY KEY]
- |— guest_name VARCHAR(100)
- |— guest_contact VARCHAR(20)

|— event_id VARCHAR(5) [FOREIGN KEY → Events.event_id CASCADE DELETE]
|— customer_id VARCHAR(5) [FOREIGN KEY → Customers.customer_id CASCADE DELETE]

SPONSORS

|— sponsor_id VARCHAR(5) [PRIMARY KEY]
|— sponsor_address VARCHAR(200) |—
sponsor_funding DECIMAL(12,2)
|— event_id VARCHAR(5) [FOREIGN KEY → Events.event_id CASCADE DELETE]

CASHFLOW

|— payment_id VARCHAR(5) [PRIMARY KEY]
|— customer_id VARCHAR(5) [FOREIGN KEY → Customers.customer_id CASCADE DELETE]
|— food_cost DECIMAL(12,2)
|— venue_cost DECIMAL(12,2)
|— ticket_earning DECIMAL(12,2)
|— sponsor_funding DECIMAL(12,2)
|— payment_method VARCHAR(50)

FEEDBACK

|— feedback_id INT [PRIMARY KEY AUTO_INCREMENT]
|— event_id VARCHAR(5) [FOREIGN KEY → Events.event_id CASCADE DELETE] |—
customer_id VARCHAR(5) [FOREIGN KEY → Customers.customer_id CASCADE DELETE]
|— recommendation VARCHAR(100)
|— review VARCHAR(500)
|— rating INT

LOGISTICS

|— venue_id VARCHAR(5) [FOREIGN KEY → Venues.venue_id CASCADE DELETE]
|— object_type VARCHAR(50)
|— quantity INT
|— status VARCHAR(50)
|— PRIMARY KEY (venue_id, object_type)

4. Tools & Technologies Used

1. HTML,CSS(Front end)
2. PHP (Back end)
3. MySql(Database)
4. XAMPP (for local hosting)

5. Role Assignment

Administrator (Manager / Admin)

Login: Manager ID and password (manager table)

Access: Full system control

Responsibilities:

- Manage events (events), venues (venues), and meal packages (meals)
 - Oversee bookings (bookings) and guest lists (guests)
 - Track finances (cashflow) and sponsors (sponsors)
 - Manage logistics (logistics) and equipment
 - Generate reports and analytics (event_summary, booking_details)
-

Customer (Students)

Login: Customer ID and password (customers table)

Access: Personal account

Responsibilities:

- Manage personal profile (customers)
 - Browse and book events (events), manage guests (guests)
 - Make payments (cashflow)
 - View booking history (bookings) and event dashboard
 - Submit feedback and ratings (feedback)
-

6. GUI Screenshot Home

Student/Customer Login

Page:

Login

Customer

▼

ID

Password

Login

Register (Customer)

Full Name

Address

Contact Number

Password

Register

STUDENT/CUSTOMER DASHBORD:

Customer Dashboard

[Logout](#)

Available Events

FORTNITE FINALS | ESPORTS | 2025-10-20 | 300.00 Tk

Quantity

Book

Career Fair 2025 | SEMINAR | 2025-11-05 | 0.00 Tk

Quantity

Book

Admin Side:

Login

Admin

ID

Password

Login

Register (Customer)

Full Name

Address

Contact Number

Password

Register

Event Creation management page:

Admin Dashboard

Logout

Add Event

E01

Event Name

ESPORTS

dd- - - - yyyy

Venue ID

Meal ID

Guest Count

Ticket Cost

Add Event

Events and Details:

Events					
FORTNITE FINALS	ESPORTS	2025-10-20	Guests: 100	300.00 Tk	Delete
Career Fair 2025	SEMINAR	2025-11-05	Guests: 500	0.00 Tk	Delete

7. Conclusion

This project successfully implemented a comprehensive event management system that demonstrated practical application of database design principles, role-based authentication, and complex business logic while providing valuable experience in web application development and real-world problem solving.
