



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:

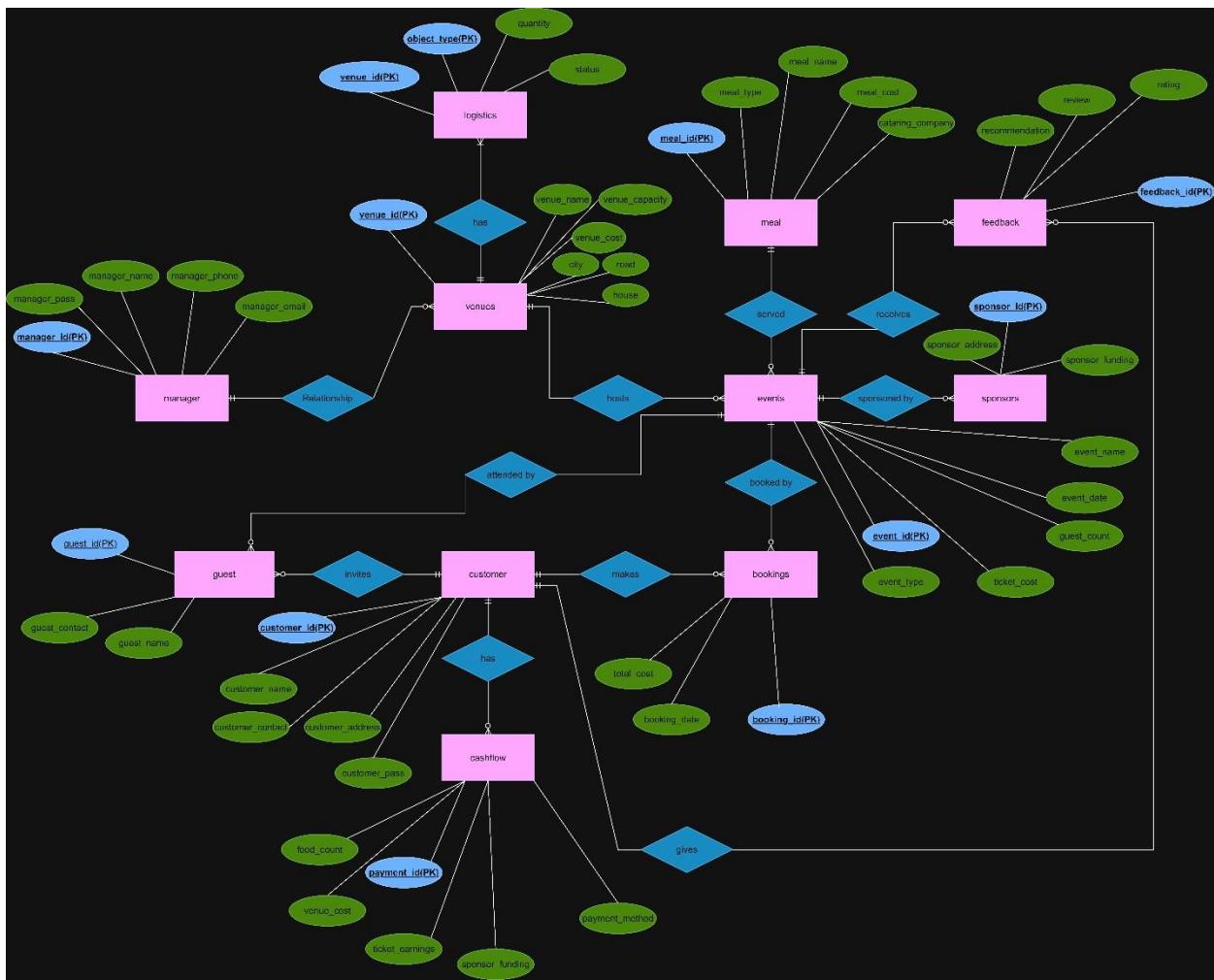
- Add, edit, and delete events
- Manage venues and meal packages
- Monitor bookings and payments
- View reports (event summary, booking details)

Customer Functions:

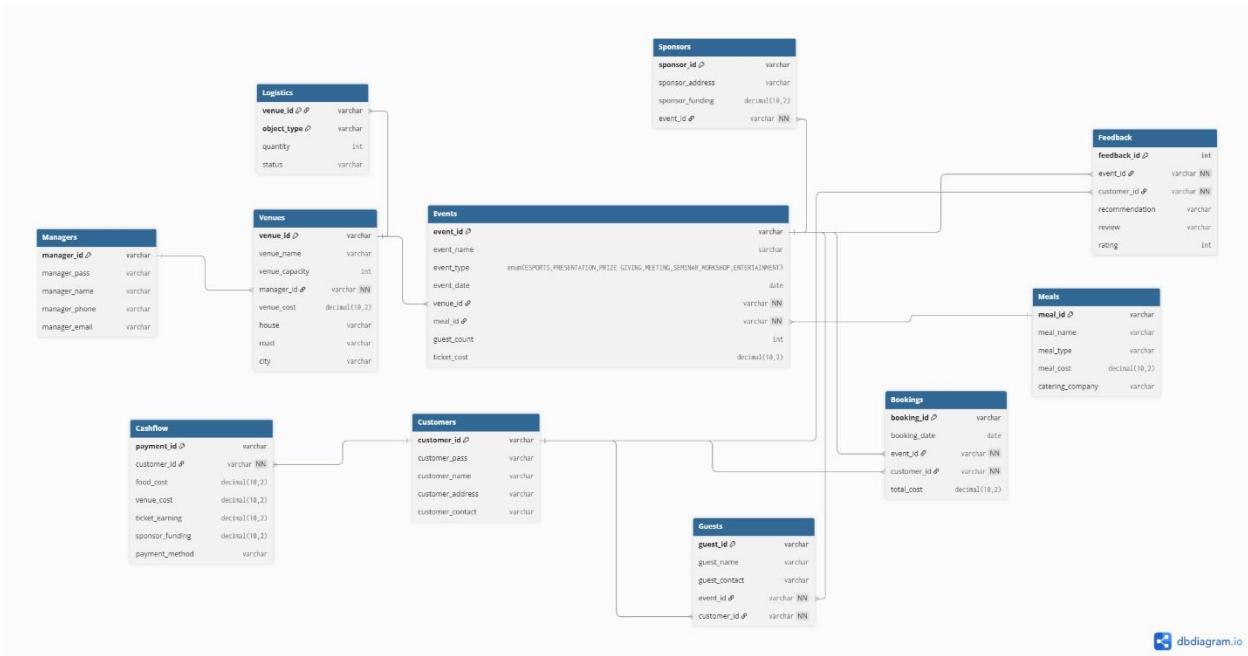
- Register and login securely
 - View events and book tickets
 - Receive booking confirmation and payment details
 - View personal booking history
-

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

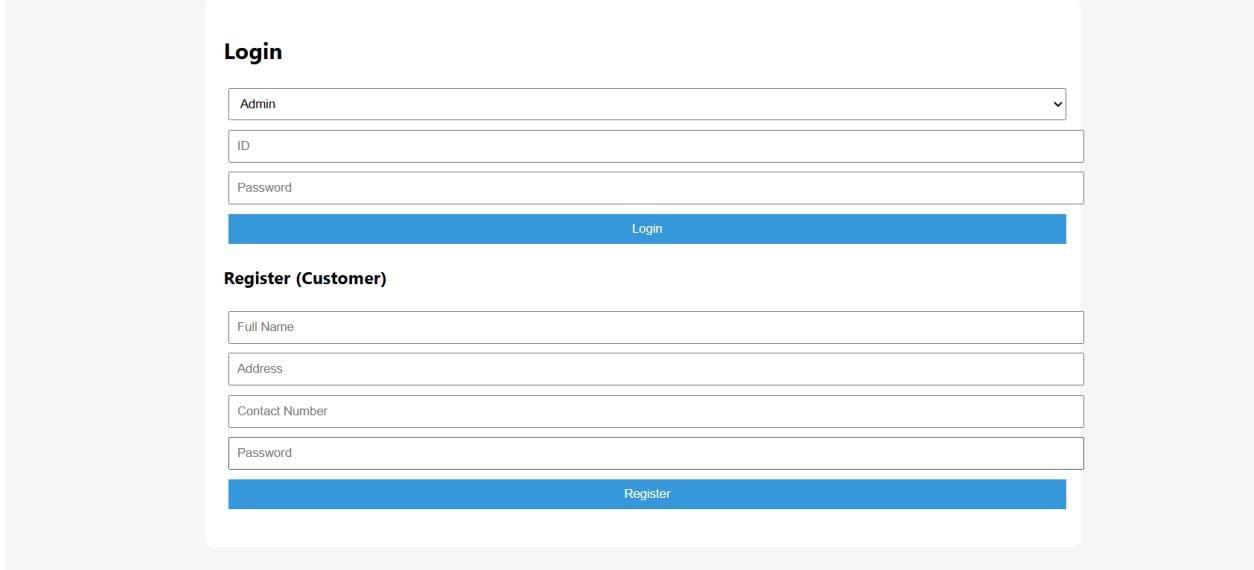
Book

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

Quantity

Book

Admin Side:



The screenshot shows a login interface with two main sections: "Login" and "Register (Customer)".

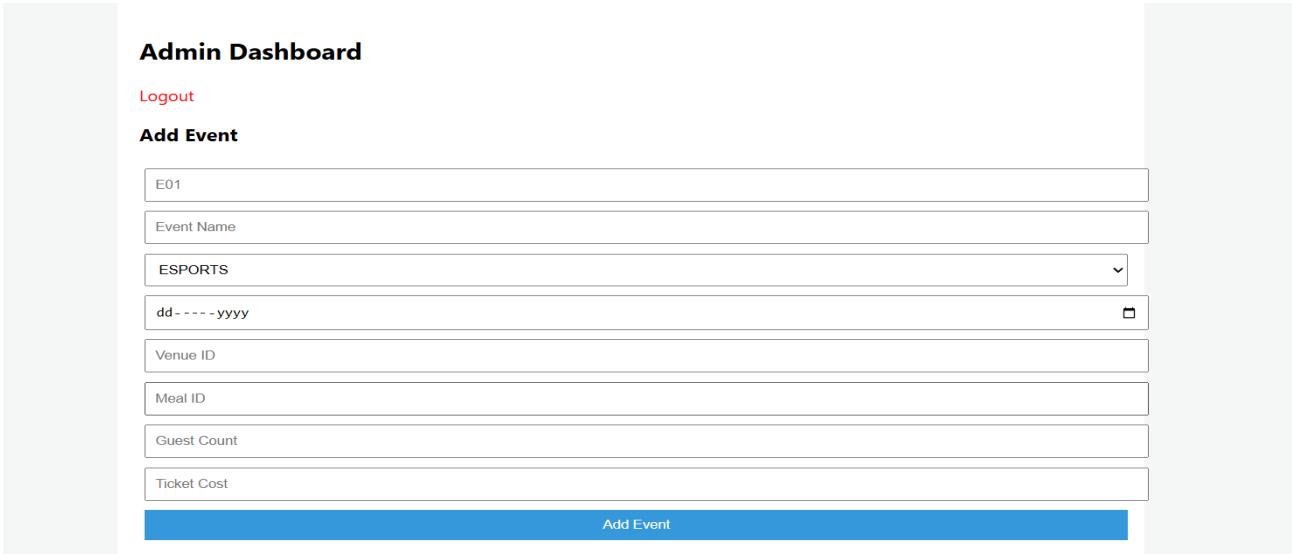
Login Section:

- A dropdown menu set to "Admin".
- An input field for "ID".
- An input field for "Password".
- A blue "Login" button.

Register (Customer) Section:

- An input field for "Full Name".
- An input field for "Address".
- An input field for "Contact Number".
- An input field for "Password".
- A blue "Register" button.

Event Creation management page:



The screenshot shows the Admin Dashboard with an "Add Event" form.

Logout link is visible at the top left.

Add Event section:

- An input field for "Event ID" containing "E01".
- An input field for "Event Name".
- A dropdown menu set to "ESPORTS".
- An input field for "Event Date" with placeholder "dd - - - yyyy".
- An input field for "Venue ID".
- An input field for "Meal ID".
- An input field for "Guest Count".
- An input field for "Ticket Cost".
- A blue "Add Event" button.

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.
