Booth Management System

Booth Managememt

Introduction to Software Engineering

Booth Management System

At **Booth Management System (BMS)**,
our mission is to simplify the process of managing and booking exhibition booths for events like trade shows, fairs, and markets. We provide an intuitive platform that caters to the needs of vendors, booth managers, and event organizers, ensuring a smooth experience for all users.

About Us

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Booth
Managememt

The main mechanism

The main mechanism

Business
Marketing

Booth Management System

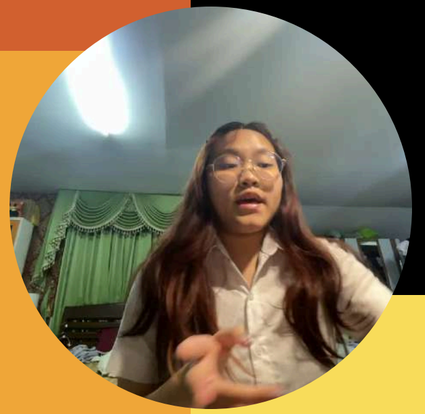
User

System capabilities

Booth Management System

Booth Managememt

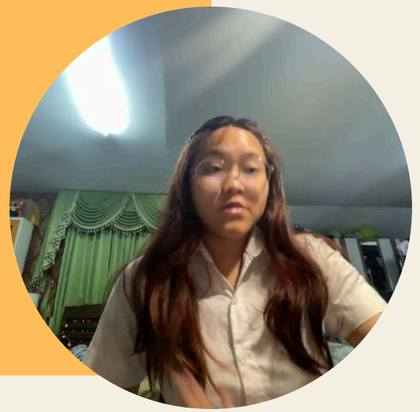
Functional Requirements



General User

R1 : The system shall enable users to view a list of available booths.

R2 : The system shall allow users to submit a booking request for a booth.



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Booth Manager

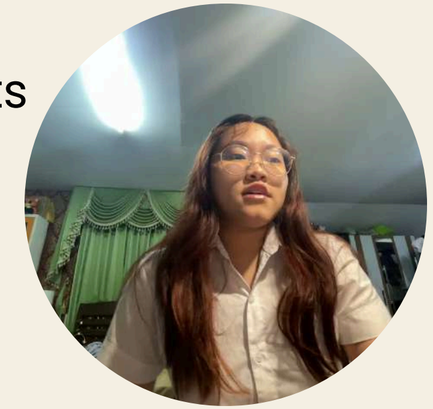
R1 : The system shall allow booth managers to approve or reject booking requests.

R2 : The system shall send notifications to booth managers when a new booking request is submitted.

Event Organizer

R1 : The system shall provide event organizers with a dashboard to monitor booth bookings and user activity.

R2 : The system shall allow event organizers to send announcements and updates to booth managers and registered users.



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Payment Gateway

R1 : The payment gateway shall send transaction confirmation details to the user upon successful payment, including the transaction ID, amount paid, and payment method used.

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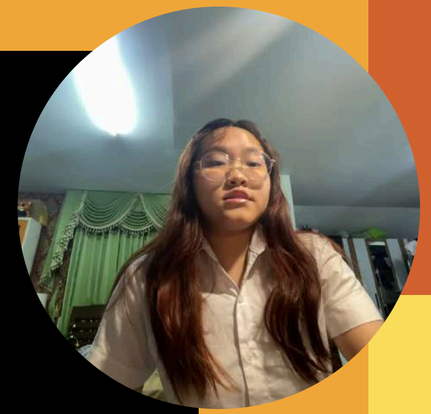
Non-functional Requirements



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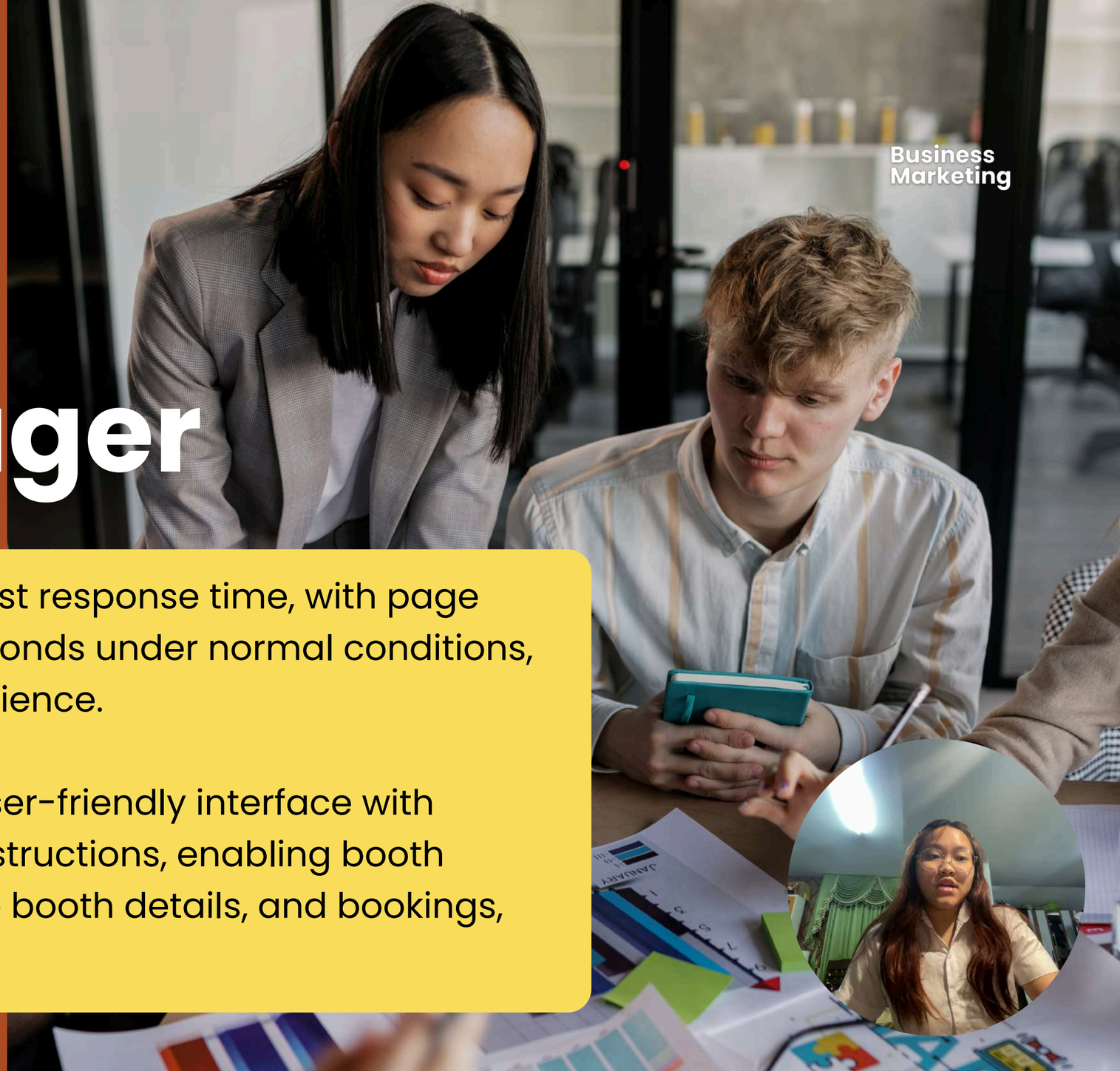
User & Booth manager



R1 : The system should have a fast response time, with page loads taking no more than 2 seconds under normal conditions, to ensure a seamless user experience.

R2 : The system should offer a user-friendly interface with intuitive navigation and clear instructions, enabling booth managers to efficiently manage booth details, and bookings, and generate reports.

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Identifying Actors

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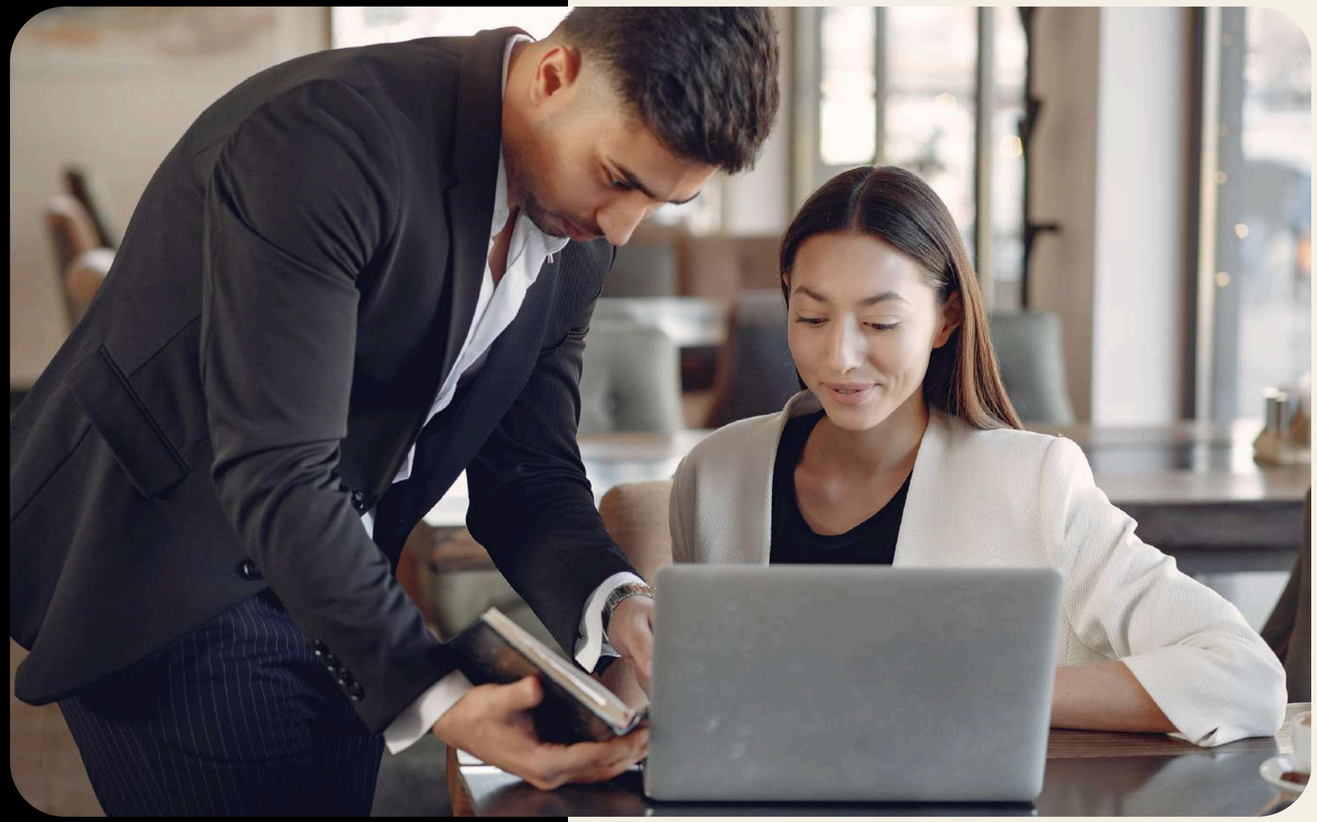

Vendor/ User

The Vendor or User is an individual or business entity looking to participate in an event by booking a booth.

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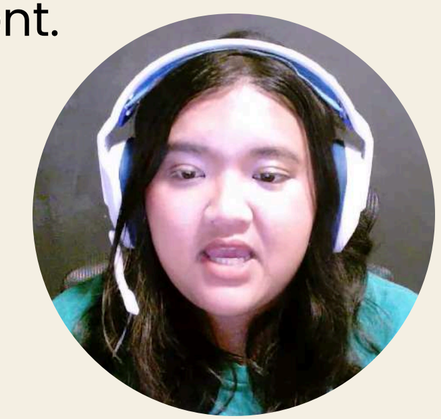
Booth Manager

The Booth Manager is responsible for overseeing the availability and booking of booths at the event.



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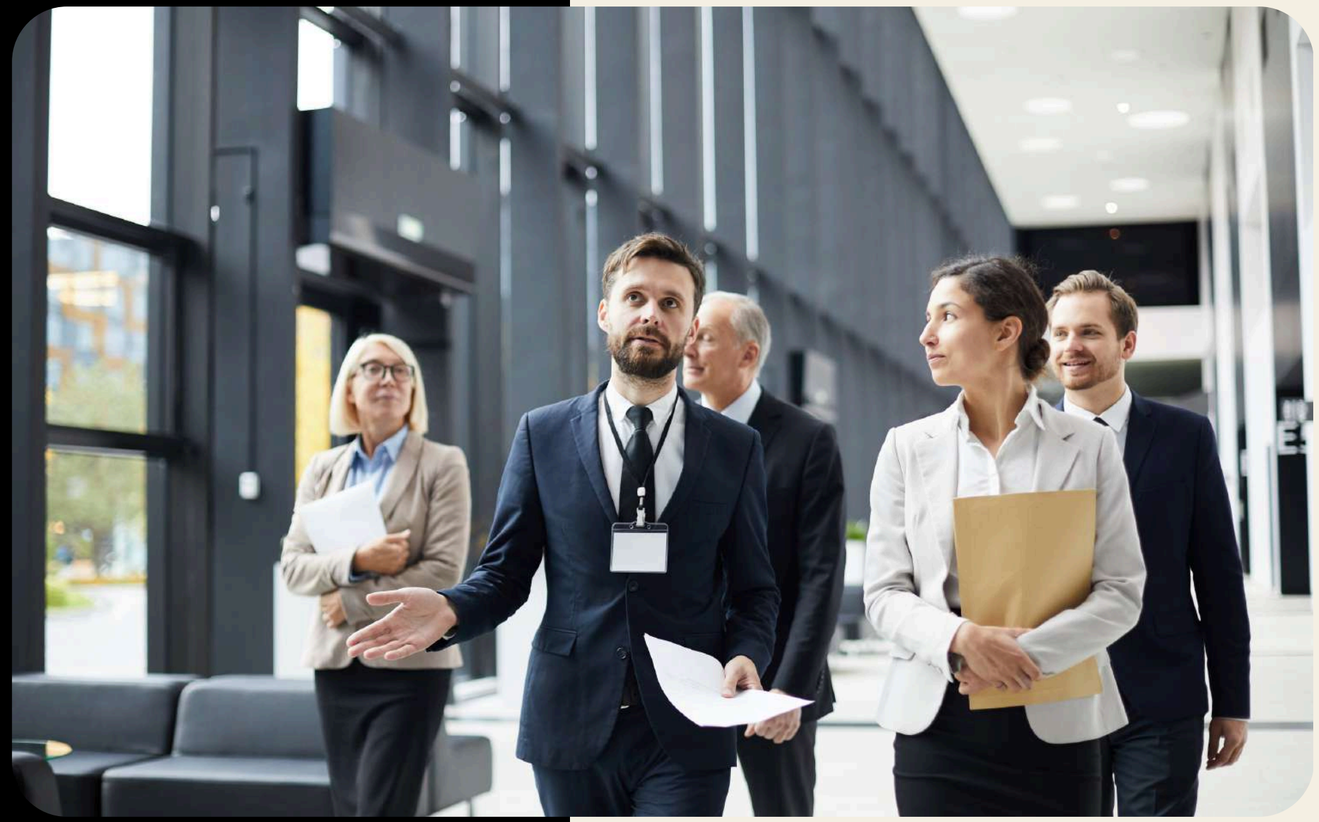
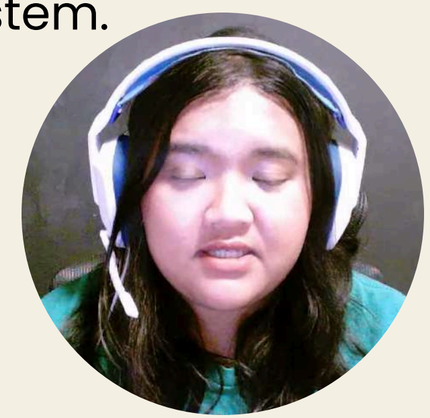


The Event Organizer

The Event Organizer oversees the entire event, including the management of the Booth Management System.



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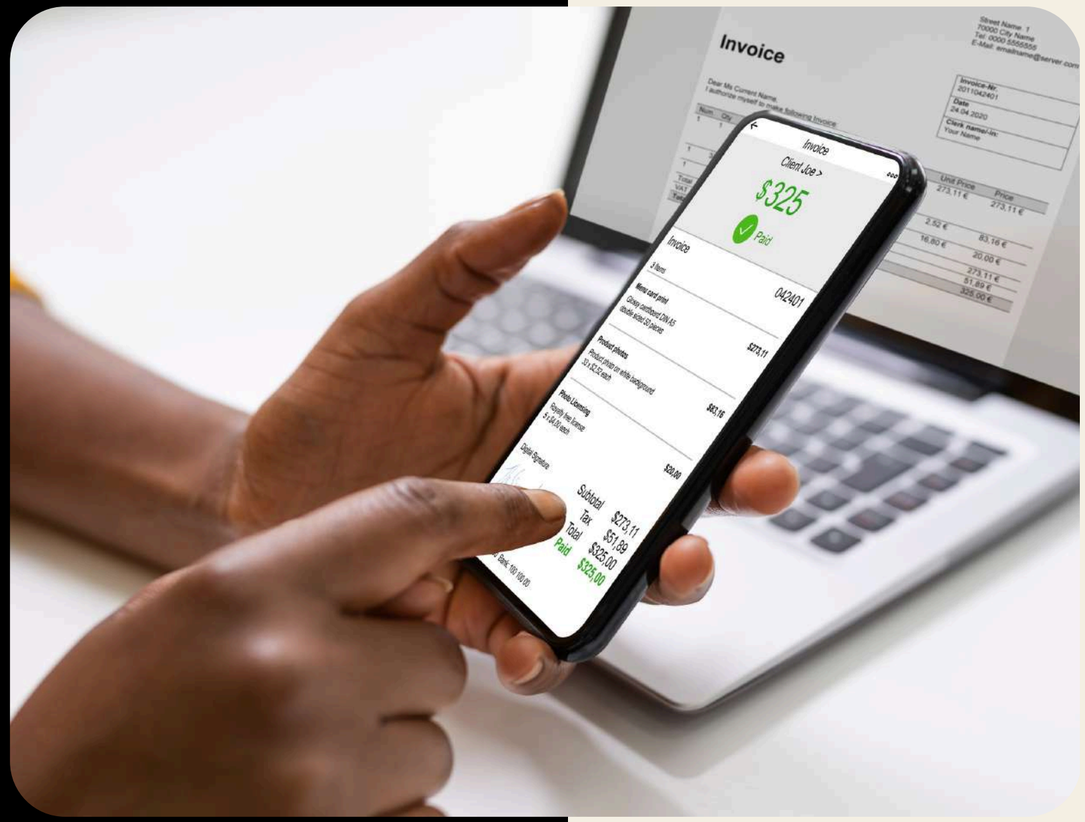

Payment Gateway

The Payment Gateway facilitates secure and efficient online transactions, acting as the intermediary between the system and financial institutions for processing payments.

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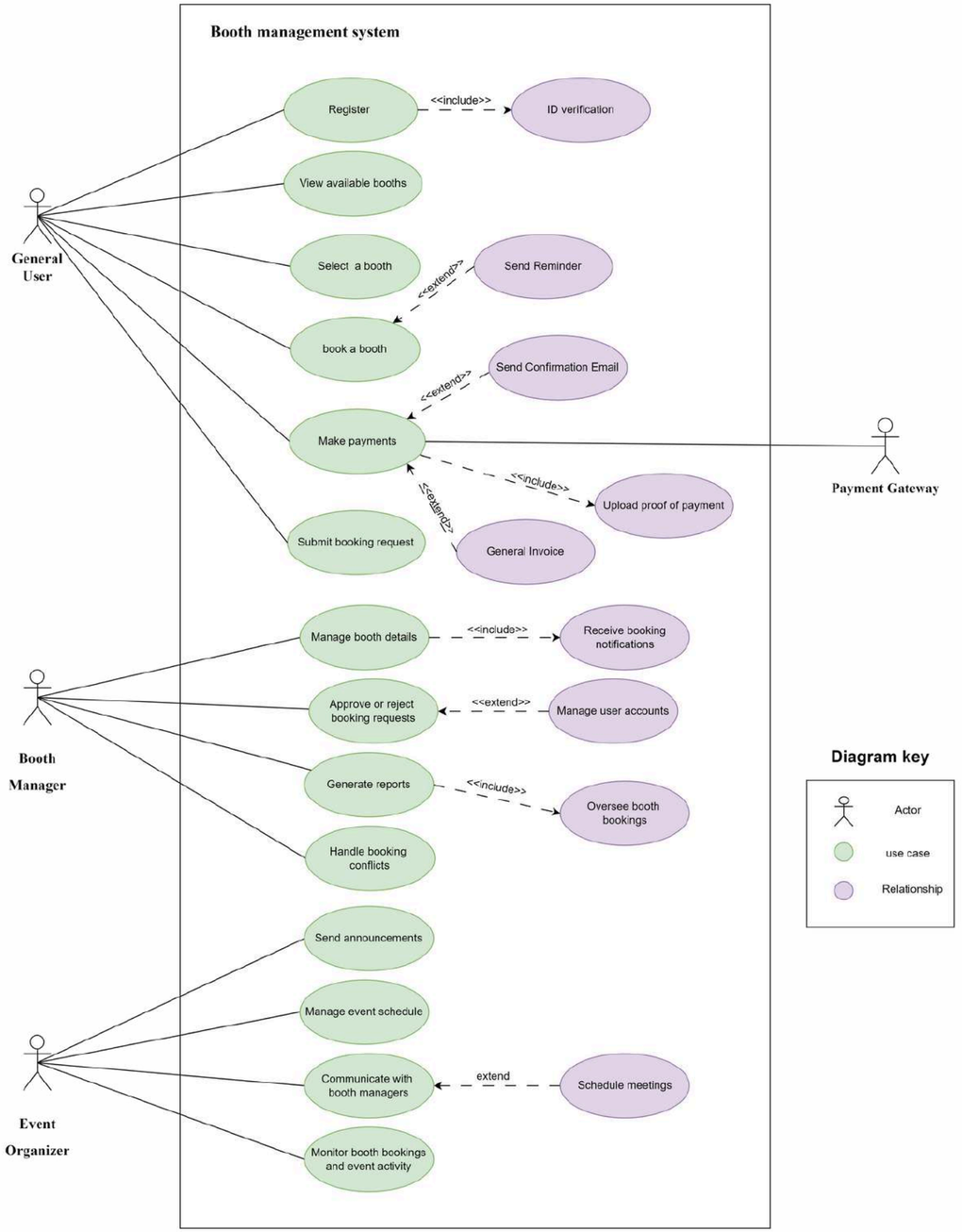
Use case Diagram



Use case Diagram

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Use case narrative

Use case narrative

Use Case Name : Book a Booth

Primary Actor : General User

Goal in Context : Allow a General User to book a booth for an event or market.

Secondary Actor :
Booth Manage , System

Trigger : The General User selects a booth from the available list and proceeds
with booking.

Use case narrative

Use case 1

Scenario :

1. The user logs into the system.
2. The user browses the available booths.
3. The user selects a booth.
4. The system asks the user to confirm the booking details.
5. The user confirms, and the system sends a notification to the Booth Manager.
6. The Booth Manager reviews and approves the request.
7. The system confirms the booking and notifies the General User.

Use case narrative

Use case 1

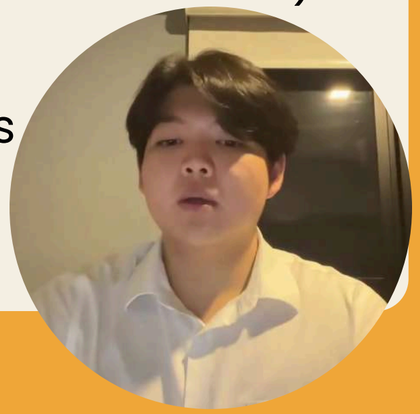
Post-condition : The booth is successfully booked, and the General User is notified of their booking confirmation.

Precondition:

- The user must be registered and logged in.
- Available booths should be listed.
- The user’s ID verification should be completed.

Exceptions:

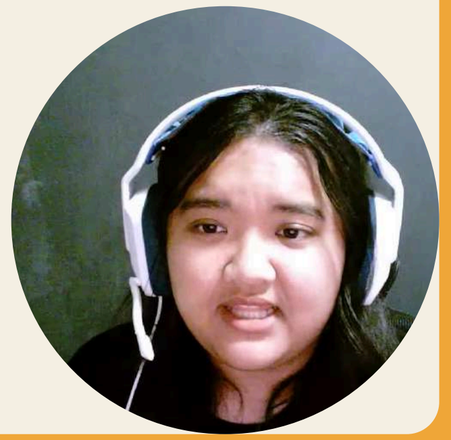
- The booth is already booked (The system will show an error).
- The user fails ID verification (The system will block further actions).
- The payment is unsuccessful (The user is prompted to retry).



Use case 2

Use case 2 (Booth manager)

Use Case Name	Manage Booth Details
Goal in Context	Allow a Booth Manager to manage and edit booth details, such as availability, pricing, size, and amenities.
Primary Actor	Booth Manager
Secondary Actor	General User, System
Precondition	The Booth Manager must be logged in and have access to the admin panel.
Trigger	The Booth Manager navigates to the booth management section.
Scenario (Typical Flows of Events)	1. The Booth Manager logs into the system. 2. The manager navigates to the booth management section. 3. The manager views a list of booths. 4. The manager selects a booth and edits details like price, size, and availability. 5. The system updates the booth information in real time. 6. The manager saves the changes, and the system confirms the update.
Exceptions	• The system fails to update the details due to server issues (The system prompts the manager to retry). • The manager tries to update details for a booked booth (The system prevents changes and notifies the manager).
Post-condition	The booth details are updated and reflected in the system for General Users to view.



Use case 3

Use Case Name	Make Payments
Goal in Context	Allow a General User to make payments for a booked booth through multiple payment methods.
Primary Actor	General User
Secondary Actor	Payment Gateway, Booth Manager
Precondition	• The booth booking process must be complete. • The user should have payment information ready. • The system should display the correct invoice.
Trigger	The user initiates the payment process after booking a booth.
Scenario (Typical Flows of Events)	1. The General User selects the "Make Payment" option. 2. The system presents the payment options (credit card, TrueMoney wallet, bank transfer). 3. The user selects a preferred payment method. 4. The user enters payment details and confirms the payment. 5. The system processes the payment through the Payment Gateway. 6. The system confirms successful payment and sends a notification to the Booth Manager. 7. The user receives a confirmation email.
Exceptions	• The payment fails (The system notifies the user and prompts to retry). • The user provides incorrect payment details (The system requests correctio
Post-condition	Payment is successfully completed, and is confirmed for the user.

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Data flow diagram Level 0

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Data flow diagram Level 0

Business Marketing

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Data flow diagram Level 1

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Data flow diagram Level 1

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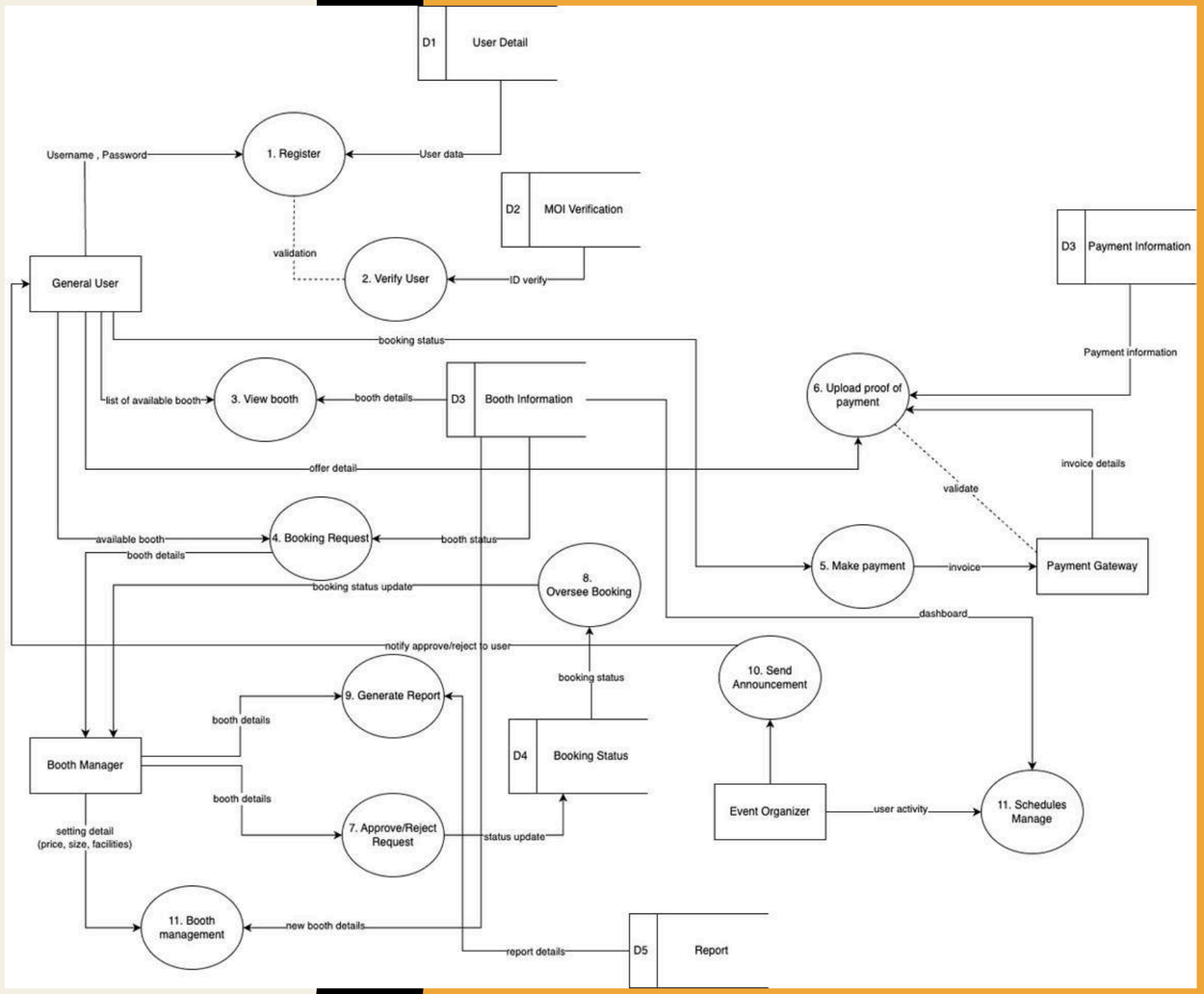

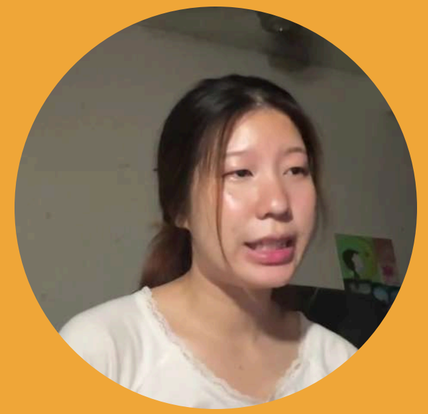

Thank you for your time!