Software Requirements Specification

For project:

Booking event

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# Introduction

## 1.1 Background

FPT students always want to attend events organized by clubs or schools. But they have no place to gather all the events for quick tracking. They have to fill out cumbersome registration forms, transfer money, etc. That is the reason why our group's Event Booking website was born. This place will help you keep track of events that the school will organize in the near future. Where you can register to participate quickly and neatly.

## 1.2 Business opportunity

Developing an event booking app offers a lucrative business opportunity. As we increasingly seek affordable solutions for event planning, the need for reliable booking platforms continues to grow. By providing a centralized application to search, compare, and book events, customers can take advantage of the hobby of event planning on the go. With features like real-time availability and location, an innovative event booking app can deliver a seamless experience, boost customer satisfaction, and drive repeat business.

## 1.3 Business Objectives

Our primary objective is to create a user-friendly and reliable event booking platform that meets the needs of students at FPT University. Specifically, we aim to:

Provide a convenient and efficient way for students to track and register for events

Offer a comprehensive event calendar that allows students to easily find and book events that interest them

Develop a payment system that is secure, efficient, and easy to use

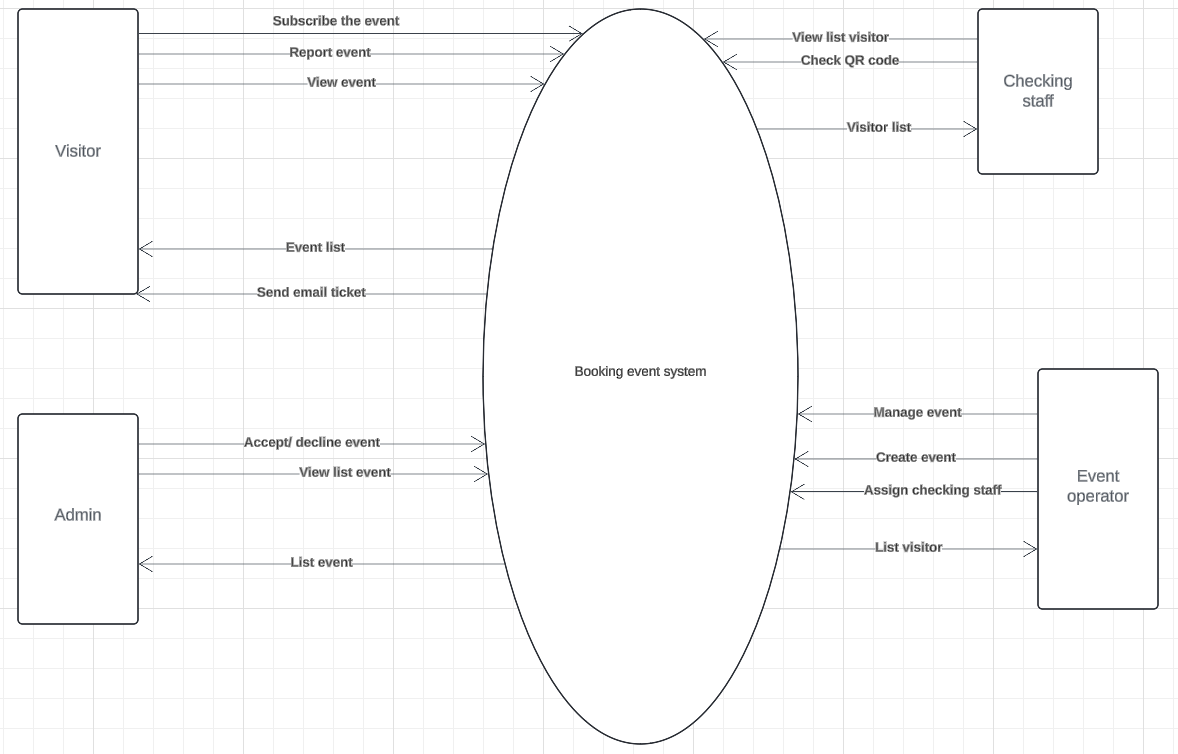
Build a loyal customer base by providing exceptional customer service and ensuring that our platform is always up-to-date and reliable.

## 1.4 Vision Statement

Our vision is to become the leading event booking platform for FPT students, providing a seamless and enjoyable experience for users to discover, register, and participate in events. We aim to revolutionize the way students interact with events by providing a user-friendly and efficient platform that meets their needs and expectations.

# Overall Description

## 2.1 Context diagram



## 2.2 User Classes and Characteristics

* **Visitor:**

A person who wishes to register to participate in events being organized. Attendees will receive tickets after successful registration and payment. In addition to web services, it also supports monitoring uptime and notifying event registrants.

* **Event operator:**

It is the person who creates events and manages them. Here you can see your reporting statistics and event management settings.

* **Checking staff:**

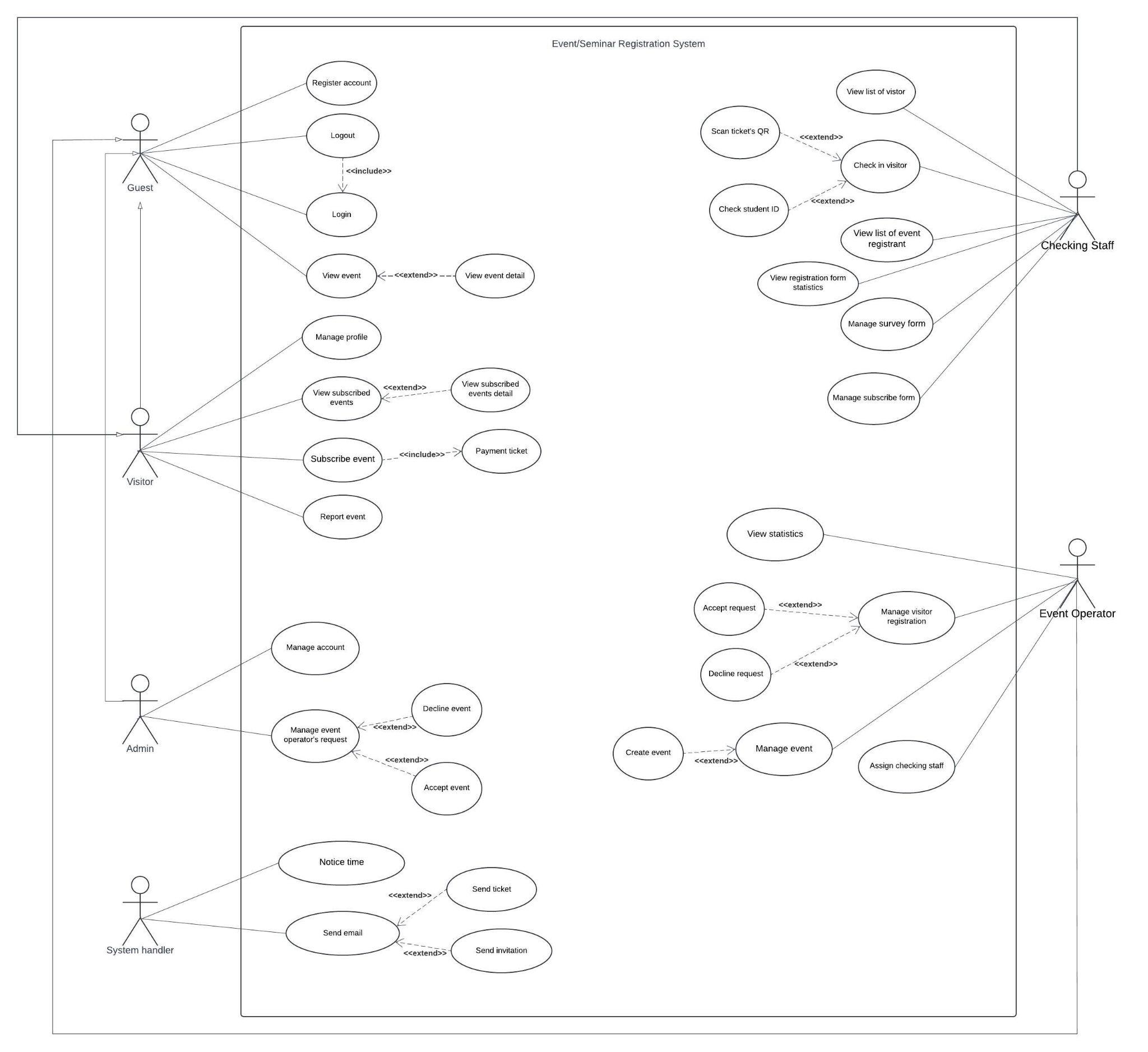
After being assigned by the event operator, they are responsible for supporting that event. You can also scan QR codes to check in visitors.

* **Admin:**

Is the manager of all events that event operators create. Can manage all accounts. Provide an account for the event operator.

# 3. System feature

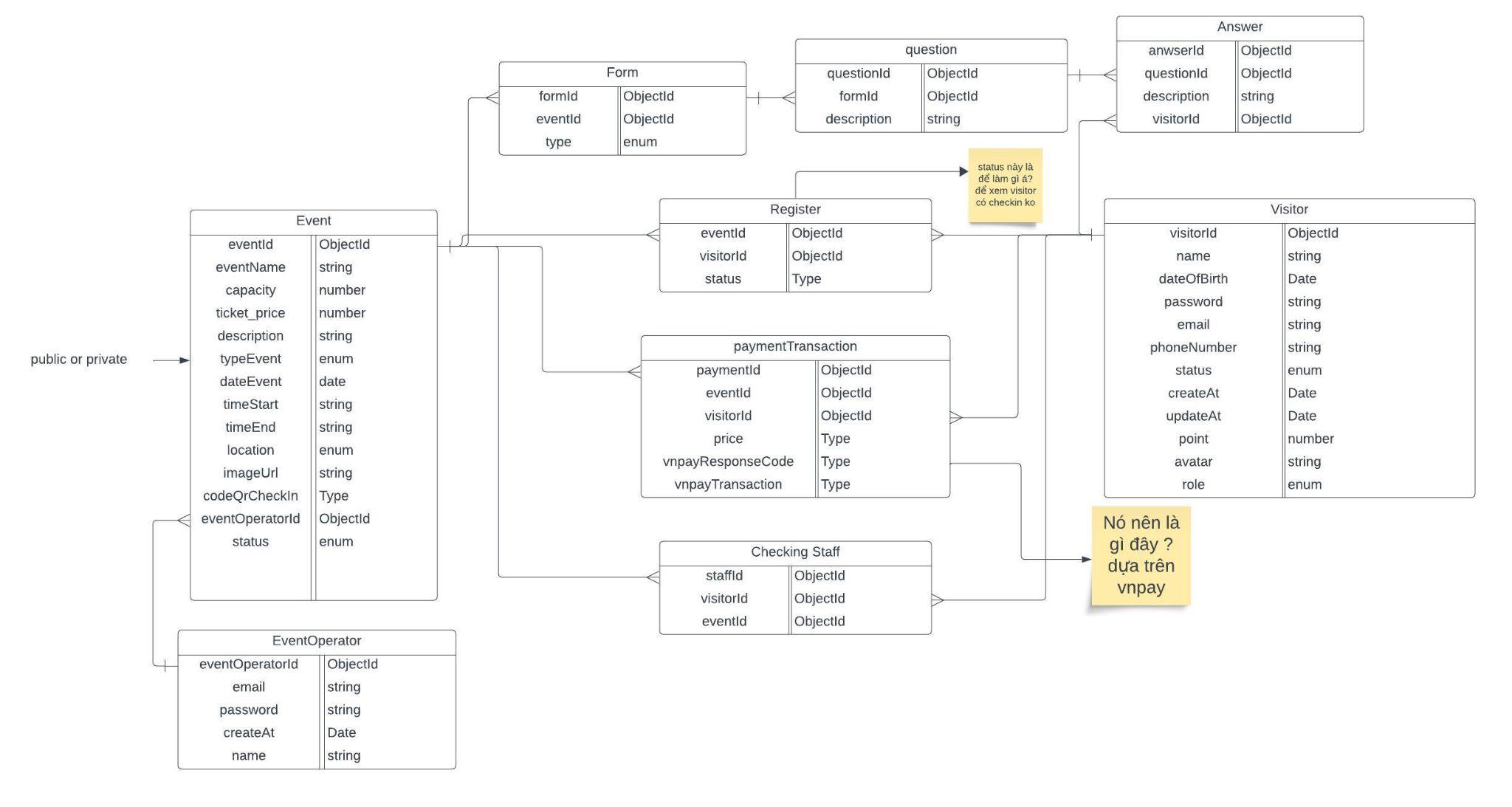
## 3.1 Use case diagram



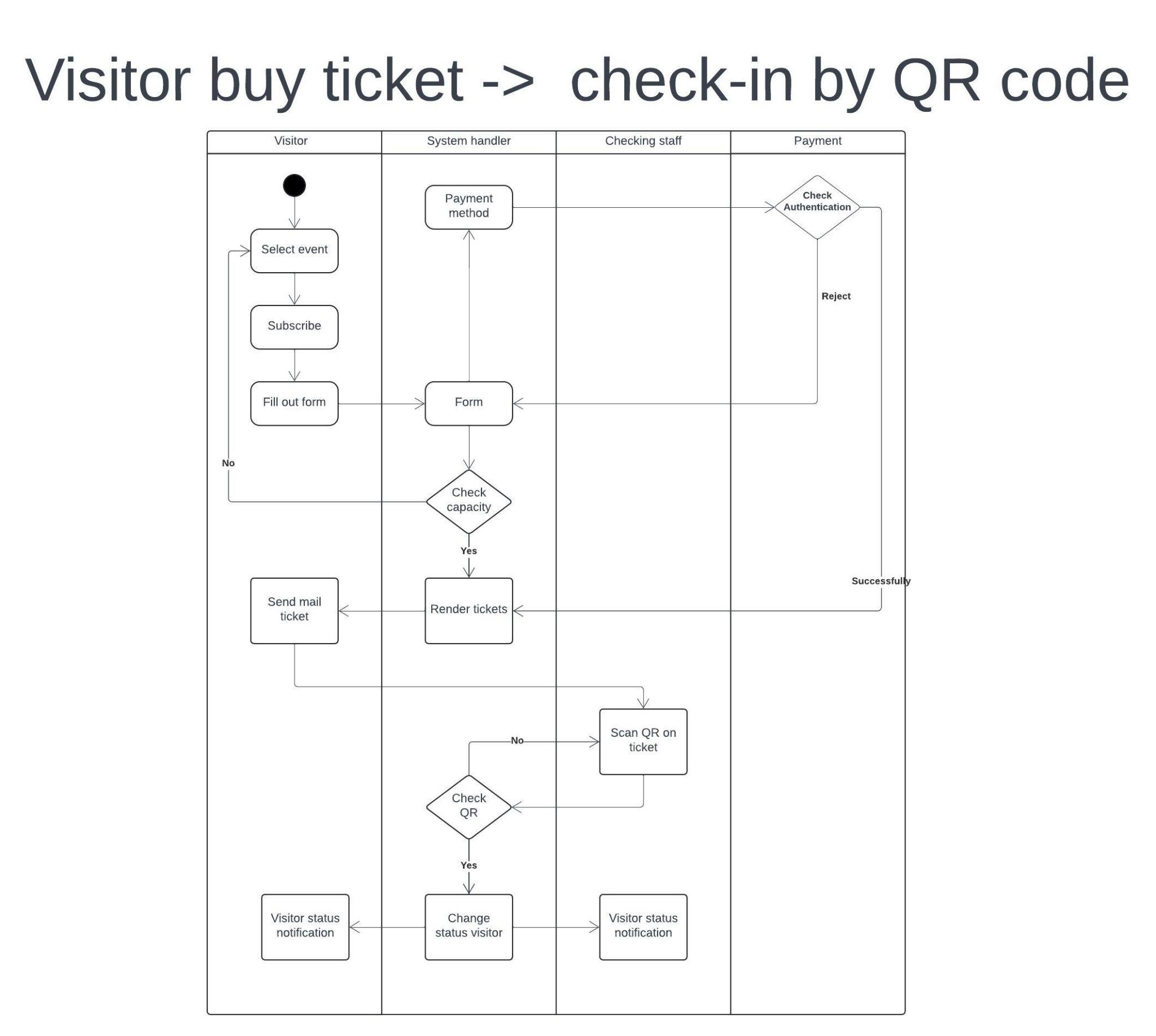
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# 4. Data Requirements

## 4.1 Logical Data Model

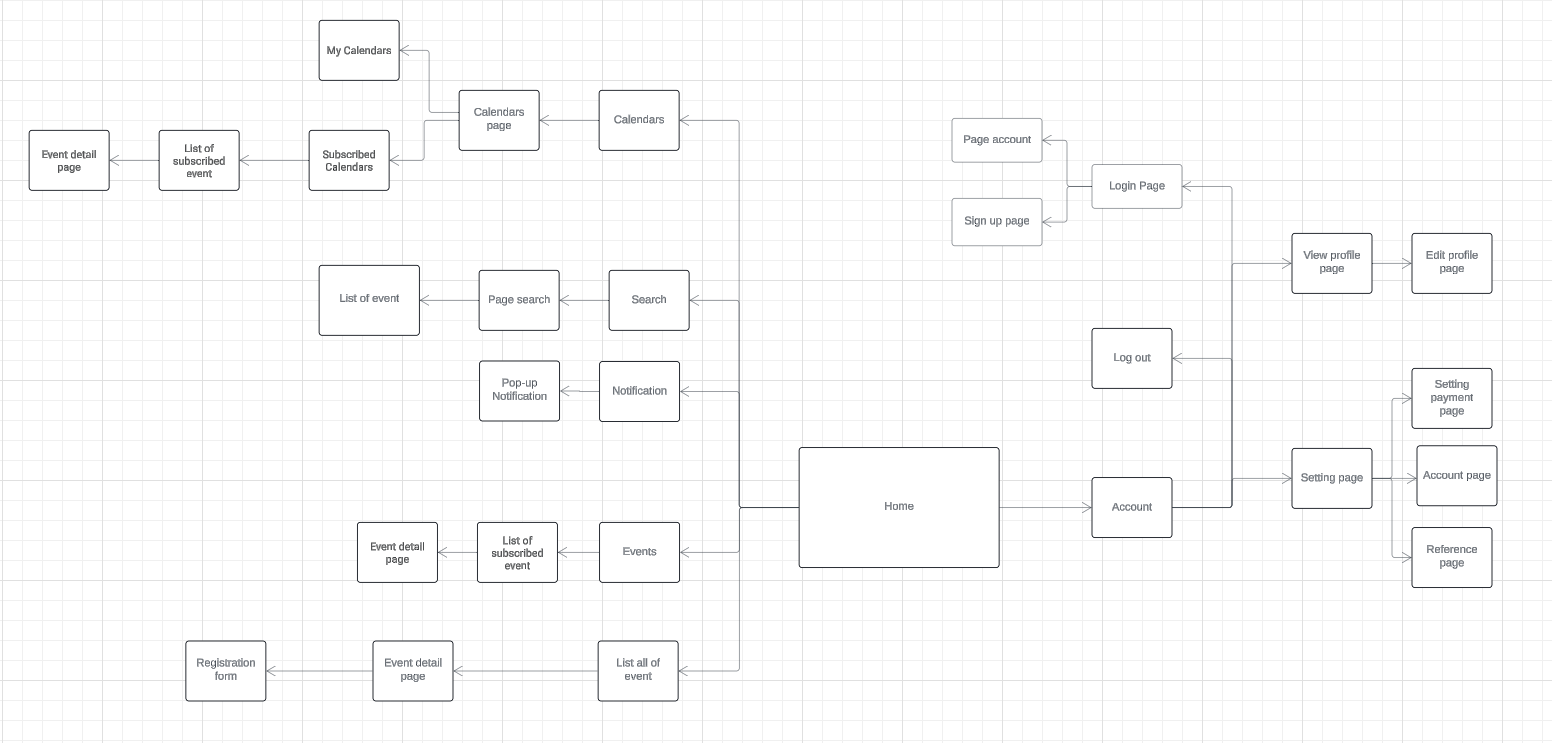


# 5. Swimlane



# 6. Screen flow

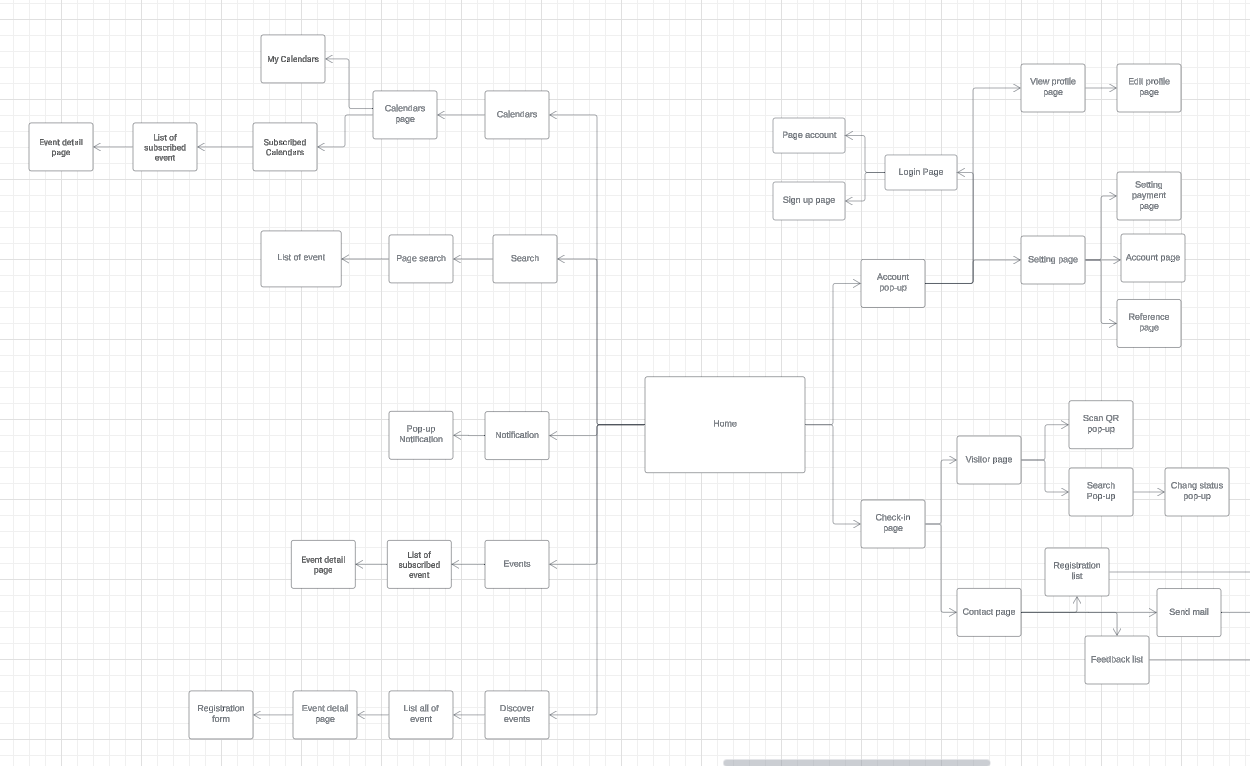
## 6.1 Visitor screen



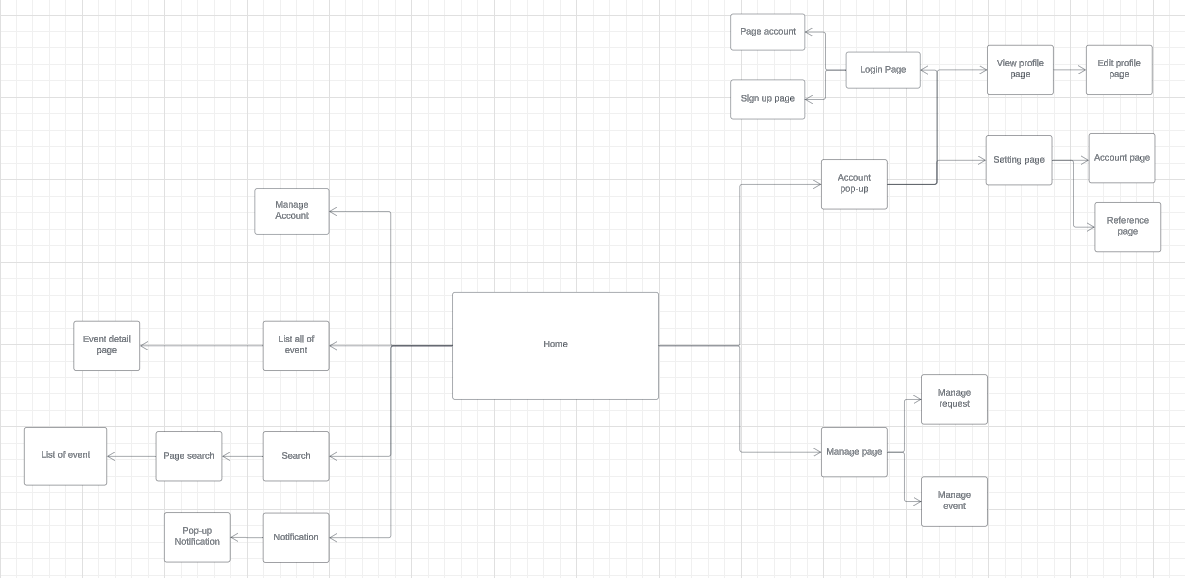
## 6.2 Event operator screen



## 6.3 Checking staff

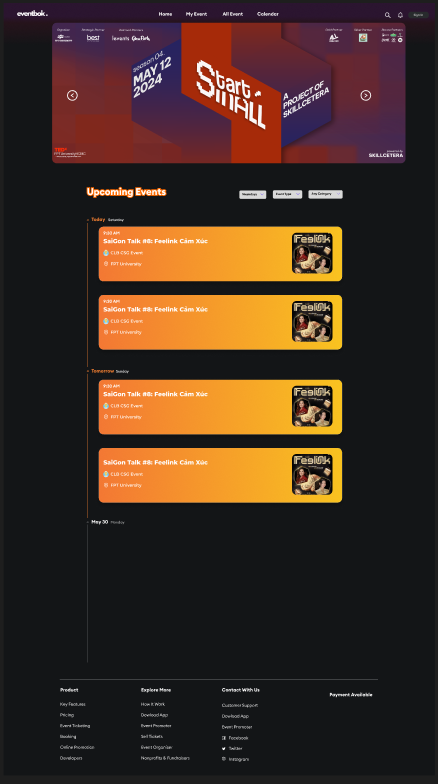


## 6.4 Admin screen

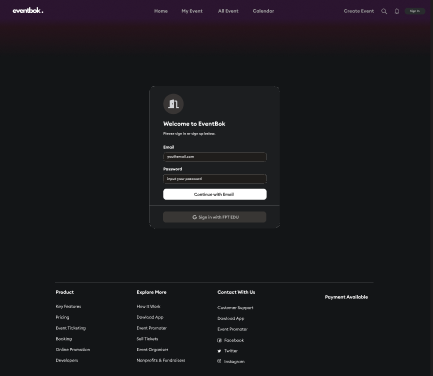


1. **Screen page**

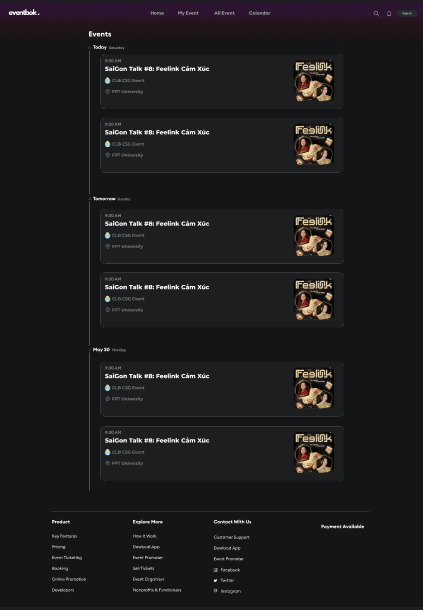
7.1 Home Page



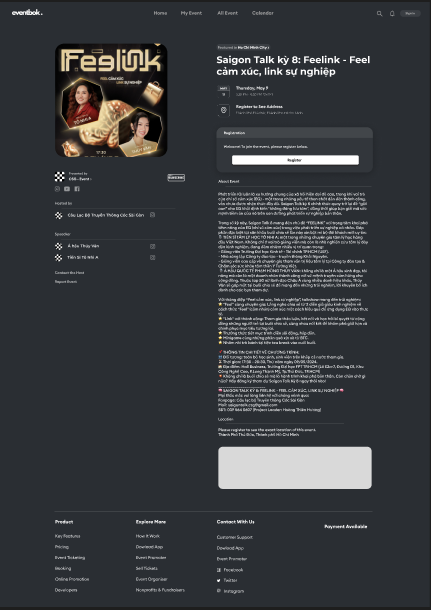
7.2 Login page



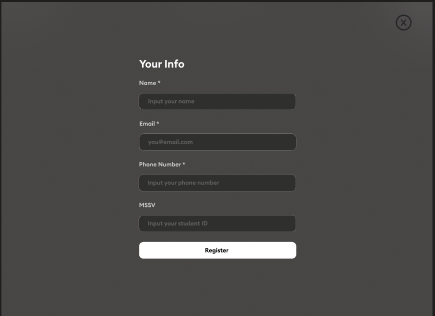
7.3 Event list page



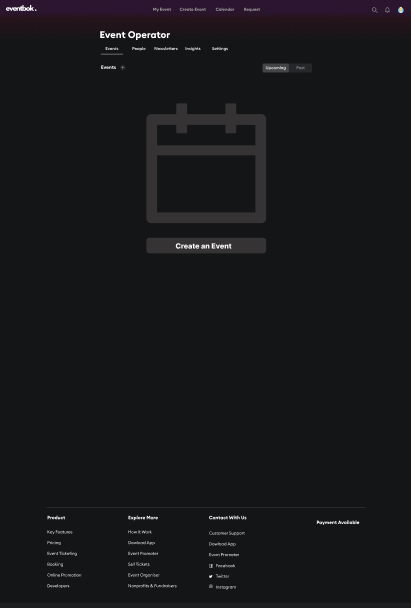
7.4 Detail event page



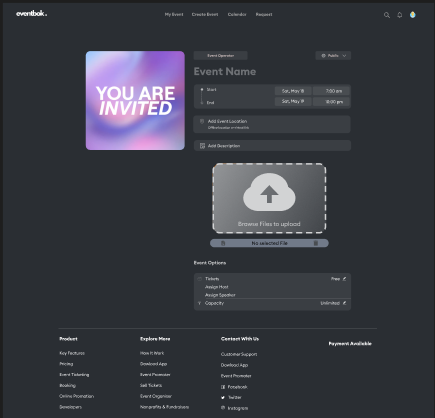
7.5 Form register event page



7.6 Event-operator home page



* 1. Create event page



1. **Functional requirement**

**Guest:**

* View all of the event
* View event detail
* Register event, require mail FPT and fill Name and Phone and Student ID

**Visitor:**

* View all of the event
* View event detail
* Register event, require mail FPT and fill Name and Phone and Student ID
* Can subscribe to the event operator
* Pay for event to have ticket (optional - Some events will not enable ticket purchase mode)

-> Note that there will be 2 aspects:

1. Event tickets can be registered freely as long as they meet the requirements given by the Event Operator
2. The buyer's request to participate in the event must be approved when the Event Operator turns on approval mode (require approval).Edit their profile

* View all their event

**Event Operator:**

* View statistics on the number of participants (Statistics on the number of participants)
* Assign a member to become a Checking Staff
* Accept/decline request to attend (If the registration form has required approval enabled)
* Manage the event (Create, edit, cancel,…)
  + **Create the event (fill out the form to create)**
* Name Event
* Time Event ( Start - End)
* Location
* Upload file (ex: Plan event, report event)
* Upload img event
* Description event
* Type Ticket
* Capacity
* Require Approval
  + **Edit Event 2 case**
* Before admin accept
* All Field
* After admin accept
* Edit Location
* Edit Description Event
* Time(validate)
* Img Event
  + **Cancel Event**

**Checking Staff:**

* View list of all visitor
* Check-in by scanning the QR or searching ID member (Student ID)
* Check event registrant information or responses in the event registration form

**ADMIN:**

* Accept/ decline when the event operator organizes the event.
* View statistics on the number of participants (Thống kê số lượng người tham gia)
* Create account Event Operator
* Export file excel(about the list of visitors, list of check-ins, list of answers,..)

**System:**

* Statistics on the number of people check-in
* Announce the upcoming event time

1. **Technical requirement**

**1. Login**

Email Field

T1: Email - The email must not be blank.

T2: Email - The email must be in a valid format (e.g., user@example.com).

Password Field

T4: Password - The password cannot be blank.

T5: Password - The password must be correct.

**2. Register event:**

Name Field

RE1: Name - Special characters are not allowed.

RE2: Name - Numbers are not allowed.

RE3: Name - The name must not be blank.

RE4: Name - The first character cannot be a space.

Email Field

RE5: Email - The email must be in a valid format (e.g., user@example.com).

RE6: Email - The email must not be blank.

Phone Number Field

RE7: Phone Number - The phone number must be numeric.

RE8: Phone Number - The phone number must not be blank.

RE9: Phone Number - The phone number must be a maximum of 10 numbers

Student ID Field

RE10: MSSV - Special characters are not allowed in the student ID.

RE11: MSSV - The student ID must be in a valid format (e.g., SE123456).

RE12: MSSV - The student ID must not be blank.

RE13: MSSV - The first character of the student ID cannot be a space.

**3. Create event**

Event Name

T1: Name - The event name must not be blank.

T2: Name - The event name cannot contain special characters.

T3: Name - The event name must not exist.

Time

T4: Time - Time start should be before time end.

T5: Time - Starting time must be in the future.

capacity 10-100

T6 Capacity- capacity more than 10 people

T7 Capacity- Capacity less than 100 people

description 200-300

T8 description- description needs 200-300 characters

1. **Business rule**

\*\*BR-01: Event/Conference Registration\*\*

- Each student must log in to the system with an FPT University account to register for events or seminars.

\*\*BR-02: Registration Confirmation\*\*

- After registering, students will receive a confirmation email with event/workshop details. This email will include a QR code to confirm identity when participating in the event/workshop.

\*\*BR-03: Cancel Subscription\*\*

- Students can cancel registration for events/workshops at least 24 hours before the event/workshop takes place. Unsubscriptions must be made through the system and students will receive a cancellation confirmation email.

- If the student does not cancel registration and does not participate in the registered event/workshop more than 3 times, the student's account will be locked for one month.

\*\*BR-04: Event/Conference Management\*\*

- Event operator reserves the right to limit the number of participants based on the capacity of the conference room or venue.

- Event operator has the right to change the time, location, or cancel the event/workshop but must notify registered students at least 48 hours before the event/workshop takes place.

\*\*BR-05: Identity Check\*\*

- Students must present their student ID card and QR code when participating in events/seminars to ensure their rights and verify their identity.

- Checking staff will scan the QR code and check information on the system to confirm participation.

\*\*BR-06: Post-Event/Workshop Review\*\*

- After participating in the event/workshop, students will receive an evaluation sheet via email to provide feedback on the quality of the event/workshop.

- This evaluation is voluntary but students are encouraged to participate to improve the quality of organizing future events/workshops.

\*\*BR-07: Admin Permissions\*\*

- Admin has the highest level of access within the system and can create, modify, or delete events and seminars.

- Admin can manage user accounts, including creating, suspending, or deleting accounts for event operators and checking staff.

- Admin can generate reports on event participation, user activity, and system usage for auditing and analysis purposes.

\*\*BR-08: Event Operator Responsibilities\*\*

- Event operators are responsible for creating and managing events and seminars. They can set event details such as date, time, location, capacity, and description.

- Event operators must monitor registration numbers and communicate any changes (e.g., cancellations, rescheduling) to registered students through the system.

- Event operators can view feedback and evaluation reports from students to improve future events but cannot modify user accounts or access admin-level functionalities.

\*\*BR-09: Checking Staff Duties\*\*

- Checking staff are responsible for verifying student attendance at events and seminars. They use the system to scan QR codes and check student IDs.

- Checking staff can access the list of registered students for each event but cannot modify event details or manage user accounts.

- Checking staff must report any discrepancies or issues with attendance to the event operator or admin for resolution.

\*\*BR-10: Interaction Between Admin and Event Operator\*\*

- Admin has the right to accept or reject event opening requests from the event operator

- Event operators can request additional resources or support from the admin if necessary (e.g., for large-scale events).

\*\*BR-11: Interaction Between Event Operator and Checking Staff\*\*

- Event operators must provide checking staff with all necessary event details and materials (e.g., attendance lists) at least 24 hours before the event.

- Checking staff must report attendance data back to the event operator after the event concludes. This data is used for generating participation reports and for future planning.

\*\*BR-12: Interaction Between Admin and Checking Staff\*\*

- Admin can audit the activities of checking staff to ensure compliance with attendance verification procedures.

- Checking staff can escalate issues or unusual incidents to the admin for further investigation or action.