Ingegneria del Software e Progettazione Web

Progetto A.A. 2023/2024

PrivateEvents

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1. Software Requirement Specification

1.1 Introduction

1.1.1 Aim of the document

The main point of the following document is present objectively the fundamental requirements and specific ones of the system PrivateEvents. So, we will be doing a review of all the important internal and external aspects of the system with the help of some diagrams.

1.1.2 Overview

PrivateEvents is an application that allows you to book tickets for private events, paying at the venue or online.
The organizer can set up a single ticket, possibly even free of charge, or multiple types of tickets for the event that allow, for example, access to reserved areas or special gadgets.

1.1.3 HW and SW requirements

The basic hardware requirements of the system are a computer that can run JAR files, as well as some space in the disc to save the files with the personal information if the offline version is on.
In the case of the basic software requirements of the system are the oracle JDK SE 21 correctly installed on it to be able to run properly the JAR file, as well as a server or a local server that can holds the DBMS so in the online version of the system the information can be obtained by queries in SQL to the server or local server correctly.

1.1.4 Related systems

- **Whova**:
    - **Pros**: It offers additional features such as designing and printing name badges, checking in guests, and promoting interaction and networking among participants.
    - **Cons**: It may not be the best choice for small events or those with basic needs.
- **Eventbrite**:
    - **Pros**: Eventbrite's user interface is intuitive and easy to navigate, making it simple to create and manage events. It also has a large base of users and a strong online presence, which means your events can reach a wide audience.
    - **Cons**: It charges fees for ticket sales, which can be significant for large events, and you don't have full control over the branding of event pages because Eventbrite also promotes its brand.

1.2 User Stories

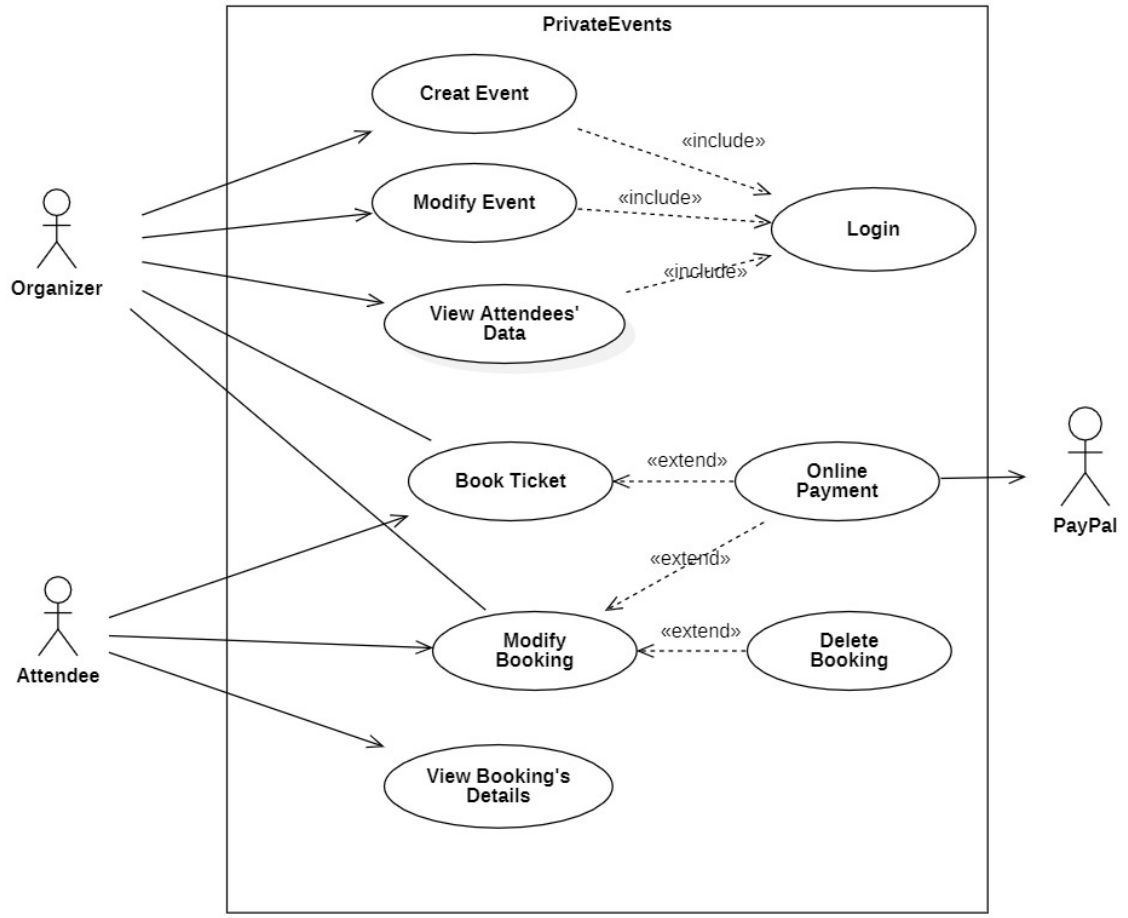
- As an attendee, I want to purchase my event ticket online so that I can avoid waiting in line to buy the ticket on-site.
- As an organizer, I want to generate a hyperlink to my event page so that I can promote and share it with others.
- As an organizer, I want to be able to view attendees' phone numbers and emails so that I can communicate with them individually.

1.3 Functional Requirements

- The system shall support online payment option for event bookings via PayPal.
- The system shall prevent bookings for an event when the attendees limit set by the organizer is reached.
- The system shall send a notification to the organizer when the attendee modifies his booking.

2. Use Case

2.1 Overview Diagram



2.2 Internal Steps

Name: Book Ticket

1. The attendee requests to sign up for the event.
2. The system gets and shows different types of tickets along with their corresponding prices, generates a blank registration form and presents available payment options.
3. The attendee selects ticket, inserts data into the form, chooses payment and indicates the registration is complete.
4. The system verifies that the attendee has the necessary prerequisites and chooses on-site payment.

5. The system saves the booking and notifies the organizer, showing to the attendee the reservation code.

Extensions:

2a. TICKETS FOR THE EVENT ARE SOLD OUT
System disables bookings for that event and notifies the attendee.
4a. ATTENDEE HAS NOT NECESSARY PREREQUISITES OR ALREADY BOOKED
The system notifies the attendee and terminates the use case.
4b. ONLINE PAYMENT
The system allows online payment via the UC Online Payment.

Name: Online Payment

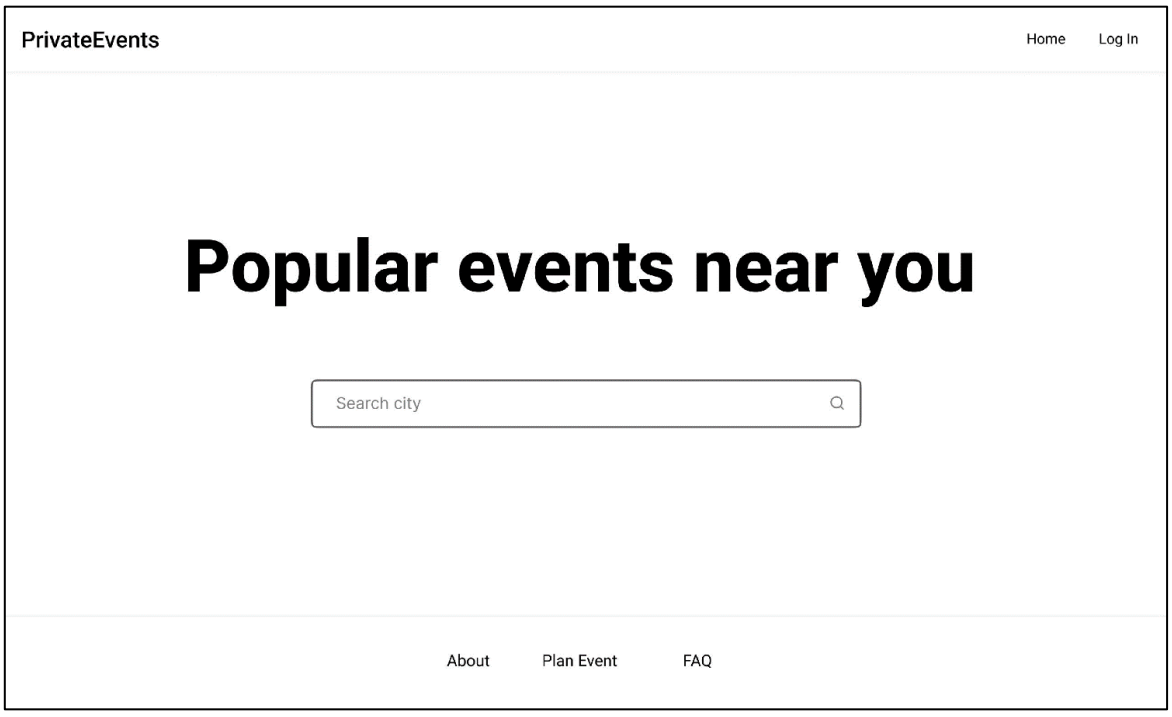
1. The attendee requests online payment.
2. The system redirects to the external payment system PayPal.
3. The system verifies that payment has been made.
4. The system saves the booking and notifies the organizer, showing to the attendee the reservation code.

Extensions:

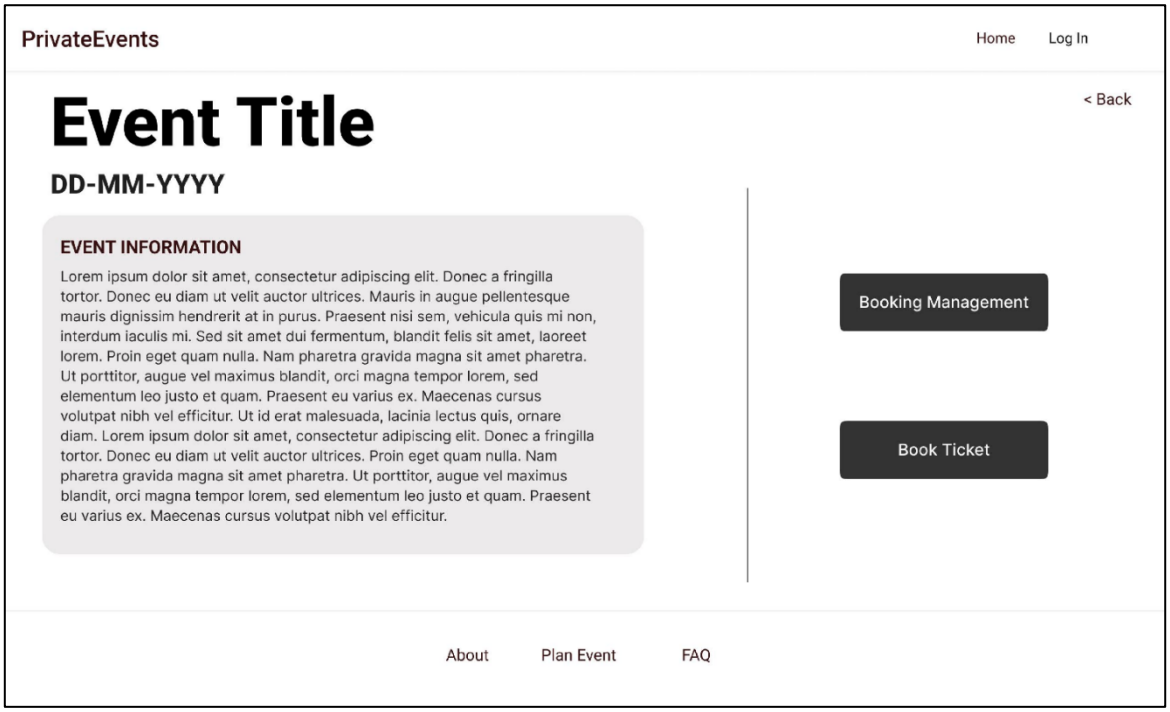
2a. EXTERNAL SYSTEM DOES NOT RESPOND
The system notifies the attendee and terminates the use case.
3a. PAYMENT FAILED
The system notifies the attendee and terminates the use case.

3. Storyboards

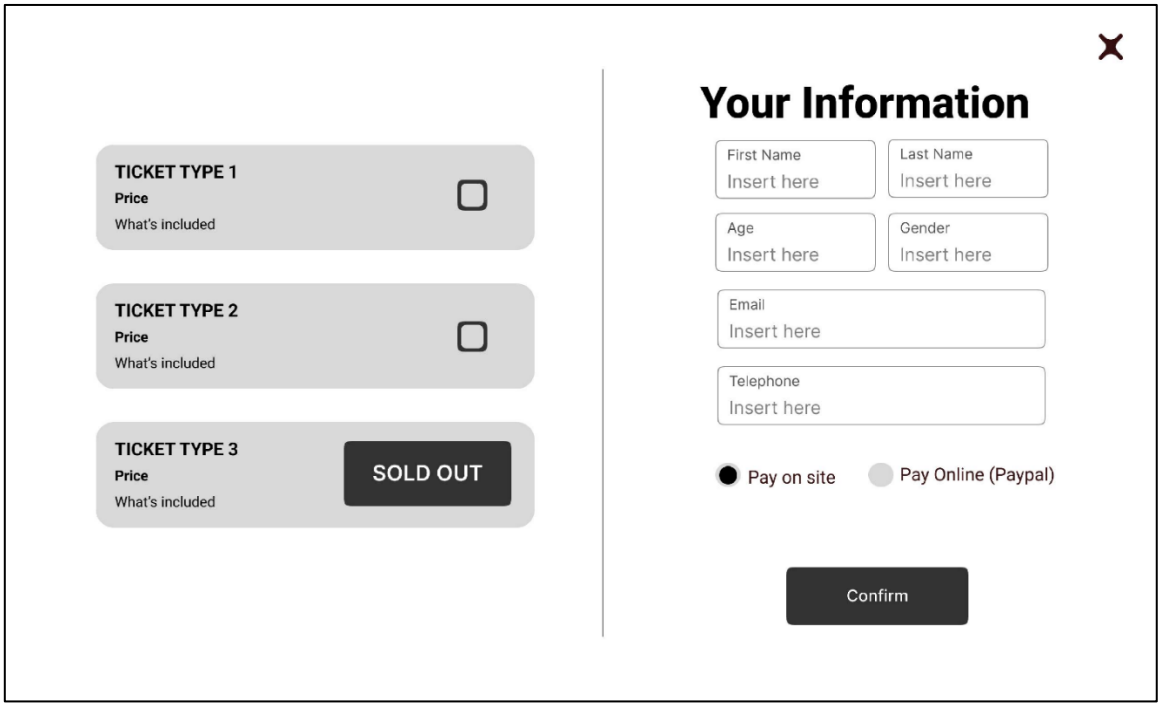
Home Page: The page that allows the user to search for the city in which he wants to find the events



Details Page: The page that provides details about the event found



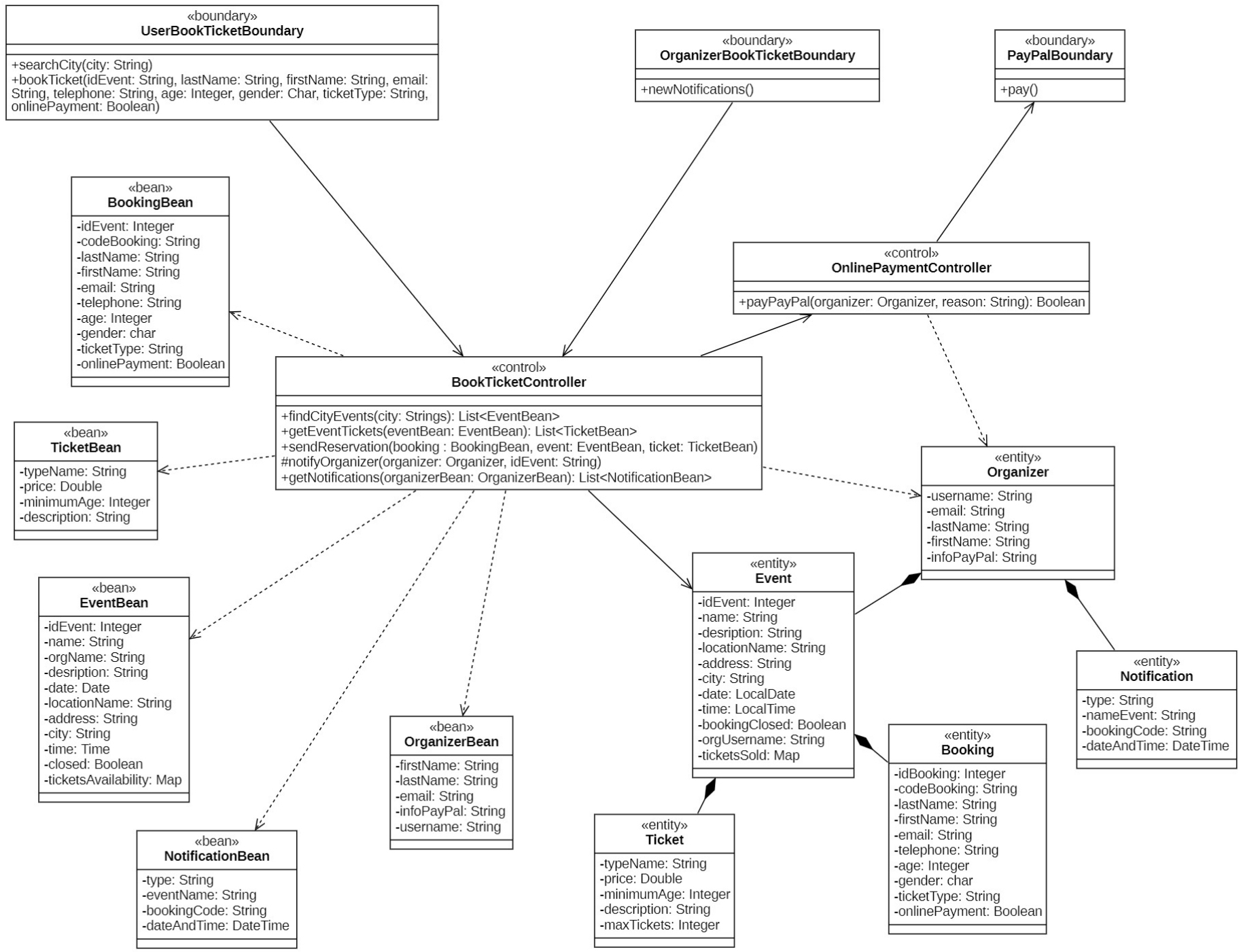
Booking Page: The page that allows you to see the available tickets to book for the event



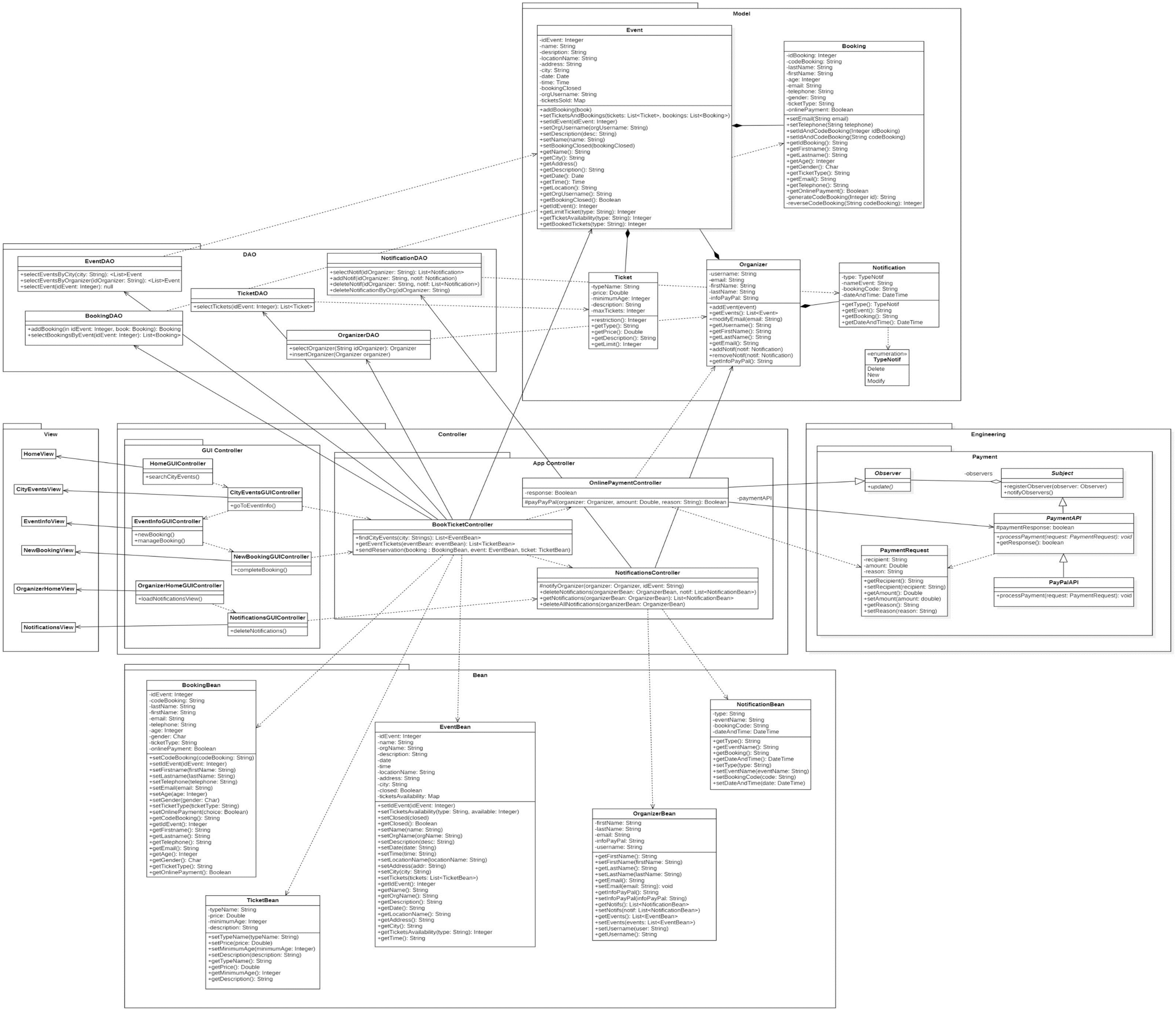
4. Design

4.1 Class Diagram

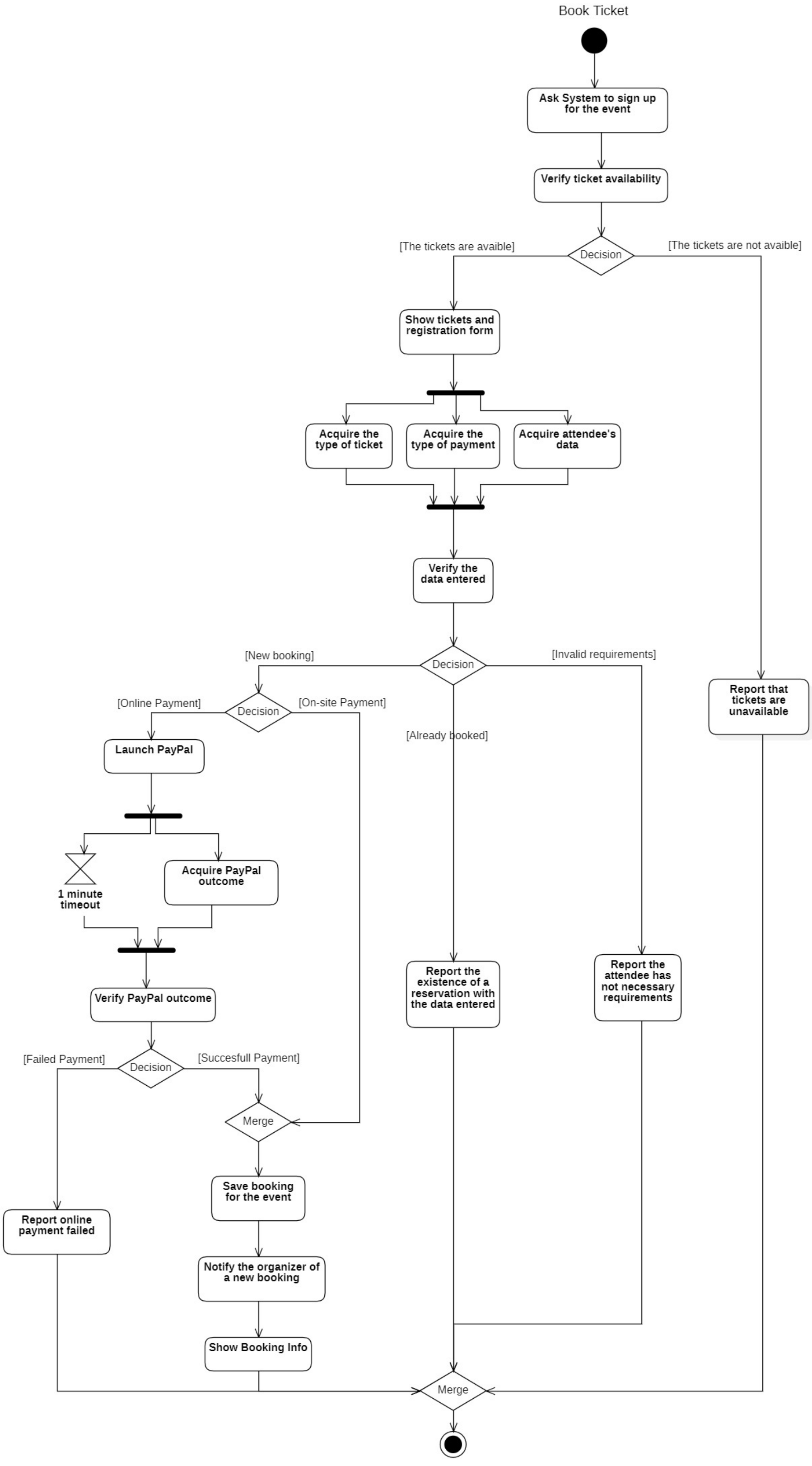
4.1.1 VOPC



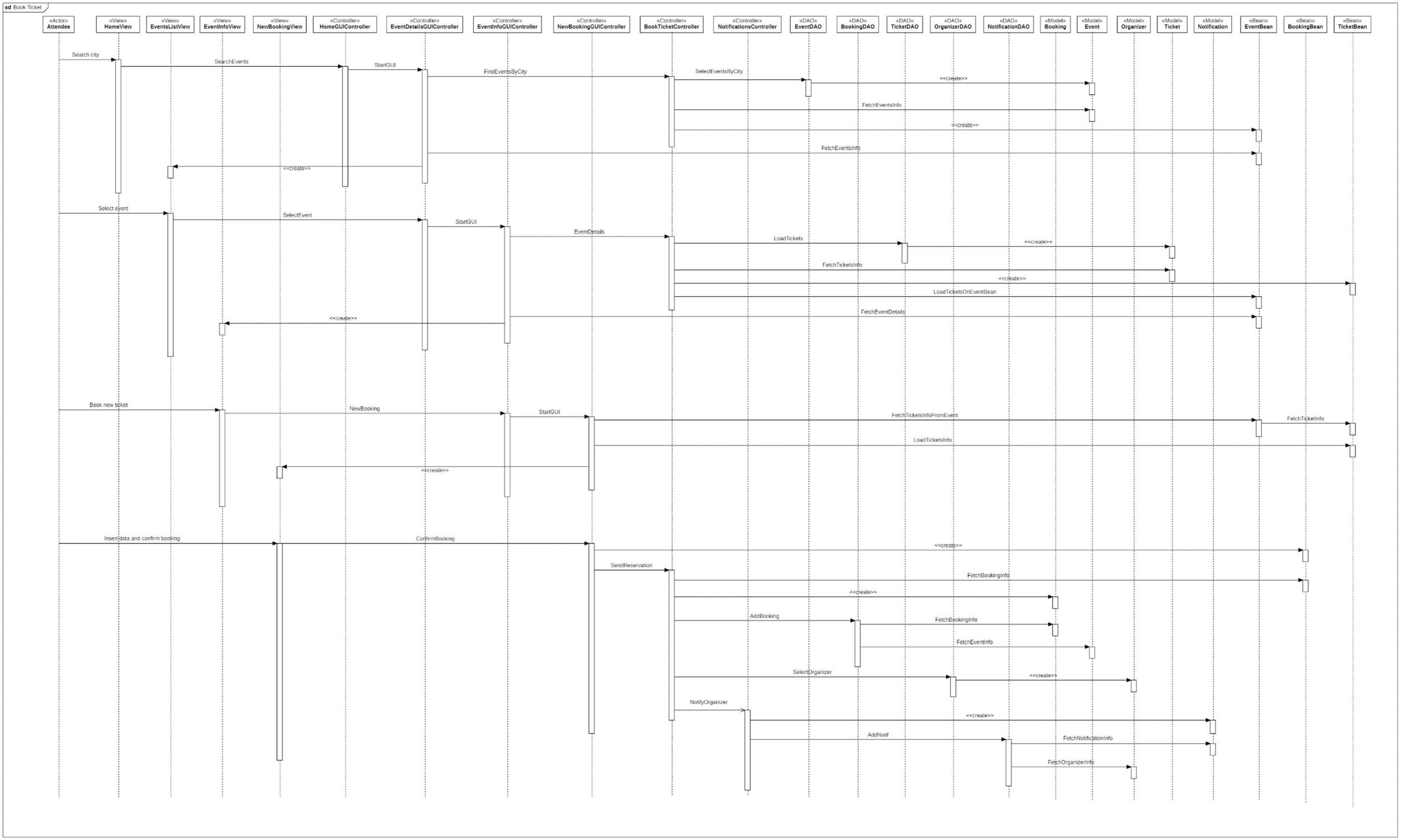
4.1.2 Design Level Diagram

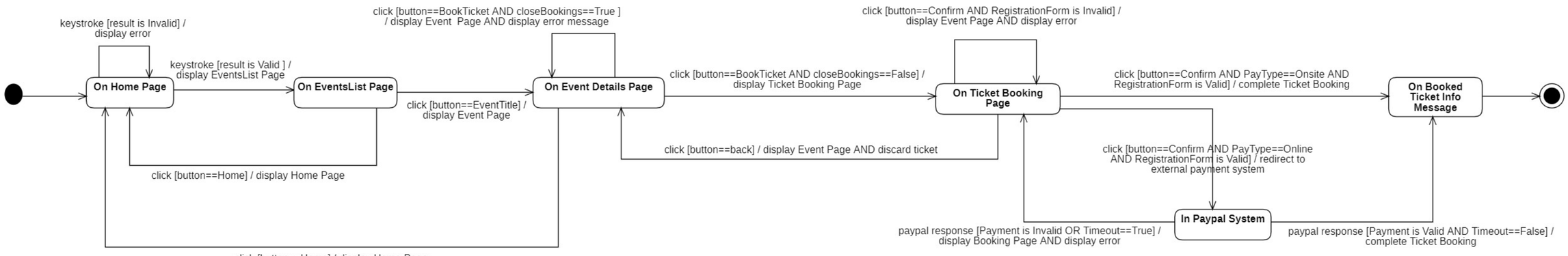


4.2 Activity Diagram



4.3 Sequence Diagram



4.4 State Diagram

Book Ticket - State of Attendee