Product Requirements Document
Submission 1 Specification

TeamWZ

SWEN90007 SM2 2023 Project

In charge: [name and e-mail of participants of the team]

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Revision History (this template's)

Date	**Version**	**Description**	**Author**
21/07/2021	01.00-D01	Initial draft	Luke Rosa
22/07/2021	01.00	Review and first version of the document	Eduardo Oliveira

Revision History

*<**students** must use this table to track individuals' contributions to this document.*

Every time you change this document, add the date you changed it, a description of your performed task and your name. For the version, please adopt the following format:

***01.00-D<number>** for draft versions related to Part 1 (any version before the final submission is considered draft). When your document is reviewed and finally ready to be submitted, change it to 01.00. For Part2, start with 02.00-D<number> and so on. This document should always be kept on GitHub>*

Date	Version	Description	Author
08/8/2023	01.00	Initial draft of use cases description and use case diagram	Hanxiang Wang

Contents

1. Introduction

1.1 Proposal

This document specifies the SWEN90007 project use cases, actors to be implemented, and the system's domain model.

1.2 Target Users

This document is mainly intended for SWEN90007 students and teaching team.

1.3 Conventions, terms and abbreviations

This section explains the concept of some important terms that will be used throughout this document. These terms are detailed alphabetically in the following table.

Term	Description
LMS	Learning Management System
Github	Release and save documents
Google Document	Share team works

2. Actors

Actor	Description
Customer	Customers who use the app to book tickets, etc
Event Planner	Event planners who create events
Administrator	Administrators who manage the system

3. Use Cases

3.1 Use Case descriptions

Use Case 1: Search Music Acts

Actors

1. Customer

Basic Flow

The customer logs into the online event booking application. After logging in, they access the search feature. They enter the name of the music act they are looking for. The system searches and displays relevant results matching the customer's query.

Use Case 2: View Calendar of Events

Actors

1. Customer

Basic Flow

Upon accessing the online event booking application, the customer chooses the calendar option. The system displays a calendar populated with upcoming music events for the next six months.

Use Case 3: Book Tickets

Actors

1. Customer

Basic Flow

The customer logs into the online event booking application. After browsing, they select a desired music event. They then specify the number of tickets they wish to book, choosing the seat type for each ticket. Once selected, the system reserves the tickets for the customer.

Use Case 4: View Bookings

Actors

1. Customer
2. Event Planner

Basic Flow

After logging into the online event booking application, the actor (either a customer or an event planner) chooses the option to view their bookings. The system then displays a list of bookings associated with the logged-in actor.

Use Case 5: Cancel Booking

Actors

1. Customer
2. Event Planner

Basic Flow

Upon logging into the application, the actor selects a booking they wish to cancel. They then select the option to cancel this booking. The system processes the request and cancels the selected booking.

Use Case 6: Manage Application

Actors

1. Administrator

Basic Flow

The administrator logs into the online event booking application. Once inside, they access the application settings and configurations. The administrator makes desired changes and updates. The system then saves and applies these changes.

Use Case 7: Create Venue

Actors

1. Administrator

Basic Flow

The administrator logs into the online event booking system. They navigate to the venue creation section and input the required details for the new venue, including specifying sections and capacities. The system then saves the new venue information.

Use Case 8: Create Event

Actors

1. Event Planner

Basic Flow

The event planner logs into the online event booking system. They select the option to create a new musical event, providing necessary details like venue, date, and time. Once all details are provided, the system adds the new event.

Use Case 9: Modify Event

Actors

1. Event Planner

Basic Flow

The event planner logs into the system. They select an existing event they wish to modify. The planner updates the event details as needed. The system then saves these updated details.

Use Case 10: Set Ticket Price

Actors

1. Event Planner

Basic Flow

Upon logging into the system, the event planner selects an event and its specific seat type. They then set a price for tickets based on the chosen seat type and musical artist. The system then updates this ticket price.

Use Case 11: Administrator Views Users and Bookings

Actors

1. Administrator

Basic Flow

The administrator logs into the online event booking application. They navigate to a section that allows them to view all registered users of the system. The administrator can also view all the event bookings, displaying details of customers who have purchased tickets, and the associated ticket details.

Use Case 12: Event Planners Association with Event

Actors

1. Event Planner

Basic Flow

Event planners log into the online event booking system. Within the system, an event can be associated with one or more event planners. Planners can add themselves or be added by other planners to events, granting them the ability to manage and modify the associated event.

Use Case 13: View Venue Sections and Capacity

Actors

1. Administrator

Basic Flow

The administrator logs into the system. They navigate to the venue section, where they can view details of all venues, including their sections (mosh, standing, seated, VIP, etc.). The system also displays the capacity for each section.

Use Case 14: Sign up

Actors

1.Administrator

2.Event Planner

3.Customer

Basic Flow

When the users visit the system for the first time, they need to sign in, if they don't have the account, they can click the sign up button to sign up with some personal information. And different roles will get different permissions.

Use Case 15: Sign in

Actors

1.Administrator

2.Event Planner

3.Customer

Basic Flow

When the users visit the system for the first time, they can sign in with their account and password. If they forget the password, they can click the button to change it with their email or phone verification. When they sign in, they will get different permissions depending on their roles.

Use Case 16: Manage profile

Actors

1.Administrator

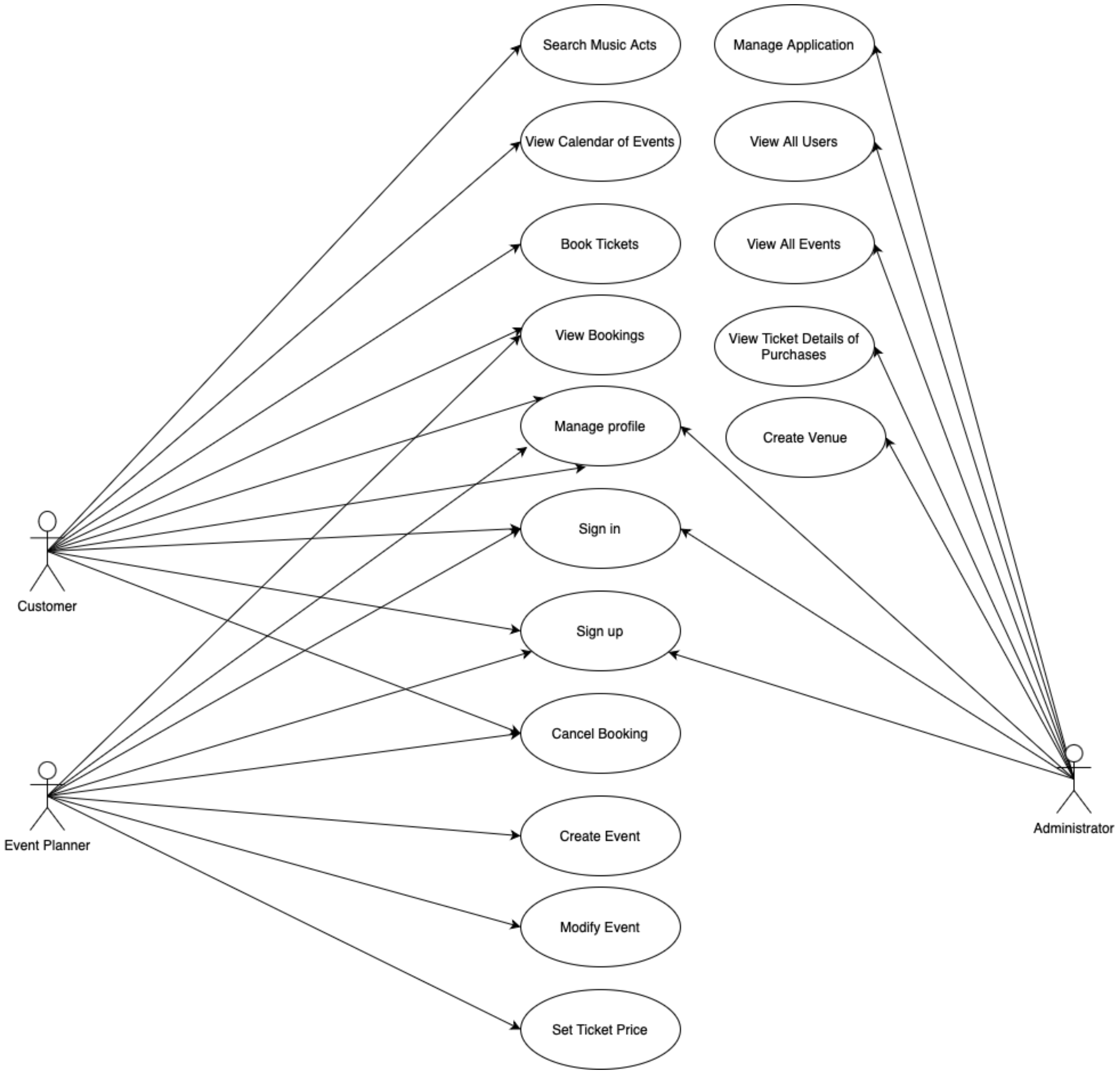
2.Event Planner

3.Customer

Basic Flow

When the users successfully sign in, they can manage their profile, including their history, personal information, account details, payment methods and so on.

3.2 Use Case Diagram



4. Domain Model

4.1 Domain Model Description

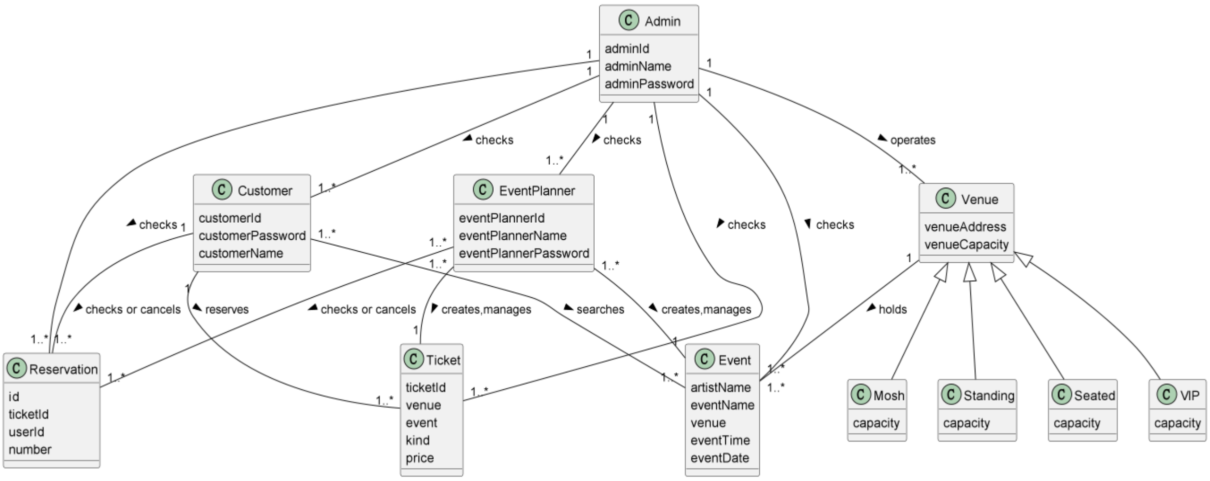
Based on the specifications provided for the Music Event System, the system entities, attributes, and business rules can be summarized as:

- **Admin** can check the information of **Event**, **Reservation**, **Ticket**, **EventPlanner** and **Customer**;

- **Admin** can operate the **Venue** but can not create **Event**;
- There is *only one* **Admin**;
- **Venue** has different parts which are: **Mosh**, **Standing**, **Seated** and **VIP**;
- *One or more* **EventPlanner** can create *one* **Event**;
- **Event** must be held at *proper* time, date and **Venue**;
- **Customer** can search **Event** through eventName or eventDate;
- *One* **Customer** can reserve *one or more* **Ticket** in *one* transaction;
- **EventPlanner** can modify or cancel **Event**;
- **EventPlanner** can modify **Ticket** information such as price;
- Both **Customer** and **EventPlanner** have the ability to check or cancel **Reservation**

Entities have been bolded; attributes have been underlined; and important *associations* have been italicized.

4.2 Domain Model Diagram



Admin
adminId
adminName
adminPassword
Customer
customerId
customerPassword
customerName
EventPlanner
eventPlannerId
eventPlannerName
eventPlannerPassword
Venue
venueAddress
venueCapacity
Reservation
id
ticketId
userId
number
Ticket
ticketId
venue
event
kind
price
Event
artistName
eventName
venue
eventTime
eventDate
Mosh
capacity
Standing
capacity
Seated
capacity
VIP
capacity
checks
checks
checks
checks
operates
checks
checks or cancels
reserves
checks or cancels
creates,manages
searches
creates,manages
holds
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