National Institute of Business Management

Higher National Diploma in Information Systems

24.1F

Final Project Documentation

Events Tunes

Events Management Website

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Signature	**: ……**
Date	**: 17/05/2025**

This project is submitted in partial fulfilment of the requirement of the Higher National Diploma in Information Systems of the National institute of business management.

Declaration

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HAMIDON T R ----------

BANDARA B S R ----------

Preamble

Abstract

The Events Tunes Website is an entertainment platform that uses technology to help bridging the gap between organizers and Artist. They can connect, plan, execute events without any conflicts. Most of the event organizers as well as individuals who organize their personal events are facing many problems because our country still does not have a proper Events management System.

Events Tunes provides a user-friendly online platform for seamless artist bookings. Event organizers can quickly find and compare artists, bands and dance groups, check their real time availability and access transparent pricing. The platform streamlines communication, helping to avoid misunderstandings. Secure online payments further simplify the booking process, saving time and effort for organizers.

The website is developed using XAMMP which is a local webserver for web applications and CSS, HTML and JS. We have used Figma to demonstrate our interfaces.

List of Keywords

- Organizer
- Artists
- Dance groups
- Bands
- Payment

List of Acronyms and Abbreviations

- NIBM - National Institute of Business Management
- HNDIS – Higher National Diploma in Computer System Design
- PK - Primary Key
- FK - Foreign Key
- UML – Unified Modeling Language

Acknowledgement

Initially, we would like to extend our heartiest thankfulness to School of Computing and Engineering of NIBM and Specially the course director of Higher National Diploma in Information Systems, Mrs. Chandula Rajapaksa for giving this challenging opportunity, where we were encouraged to apply what we have learned into practice through a project and to accomplish the end goal successfully.

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Our special thankfulness is rendered to our supervisor, who is also the visiting lecturer of National Institute of Business Management, Chief Executive Officer at Effective Solutions (PVT) Ltd Mr. Keerthi Kodithuwakku for guiding and directing us throughout the study to make this project a success where he encouraged us a lot by giving advice for us to improve the project in a more professional and standard way.

Last but not the least, we extend our thanks and gratitude for our parents, friends and everybody who involved with us directly and indirectly to help us in completing the project work.

Thank you.

Contents

Chapter 01

1. Introduction

1.1. Introduction of the Events Tunes Website

The Events Tune management website is an online solution designed to manage and streamline of the booking process of organizers, artists, bands, and dance groups. It aims to optimize booking system, check their real time availability, payment integration and schedules to improve efficiency, cost savings, and overall Event management.

The main features of the application include artists profiles detailed information on artists, including past performances and pricing. The availability calendar updates real time on artist availability for easy scheduling, Instant booking and scheduling management for streamlined processes, secure online payment system with multiple options for convenience, feedback system and messaging system.

EventsTune.lk aims to optimize the entire Sri Lankan entertainment industry by providing secure, trustworthy, user friendly and efficiency in booking artists, bands and dance groups.

1.2. Problem Definition

The Sri Lankan tradition combine with dance and music. Most of them like to have entertainment. Recent years there is lot of conflicts between event organizers and artists. Some of them charging lot of money, not attending to events, not performing well and not satisfying the customers. There are difficulties to contact artists. Over the past years people used to contact artists with a manual process.

- Lack of facilities to find entertainment services

Due to some problems in entertainment industry in Sri Lanka there is no proper entertainment services to find available artist and booking system for events.

- Inefficient manual booking

Reliance on phone calls and personal connections leads to inefficiency.

- Lack of price transparency

There is no clear pricing information of the artists. It makes hard for event organizers to budget properly.

- Miscommunication and errors

Manual process often leads to misunderstandings or mistakes.

1.3. Project Objectives

The lack of proper entertainment system in the country may lead to inefficiencies, delays and secure payment concerns for both artist and event organizers. Developing the Events Tunes website aims to address these challenges by using technology to optimize and streamline the event booking process.

The development of this EventsTunes.lk aims to revolutionize and modernize the events management process, improving user friendly and secure experience for event organizers and artists.

What are the benefits?

EventsTunes.lk offers a comprehensive solution to the challenges faced in events management. It brings efficiency, cost savings, and improved user experiences, making is a valuable website for consumers.

1.4. Proposed Solution

Functional requirements

1. **User Authentication & Authorization**

User should be able to secure registration, login, and account management. Role- based access control to manage permissions.

2. **Artist Profile Management**

Artists should be able to manage profiles by create, update, and delete details like past performances, pricing and password.

3. **Real-Time Availability Calendar**

Real time calendar help artists to update their availability and organizers can view artists real time availability.

4. **Instant Booking & Scheduling**

Instant booking helps Organizers book artists instantly according to their availability and schedule event. The system will send automated confirmations and reminders to both users.

5. **Secure Payment Integration**

Users will get multiple payment options like credit and debit. secure transaction processing with encryption. Both parties will get invoicing and receipts.

6. **Feedback & Rating System**

The website should support feedback features on artist profiles, rate and review post.

7. **Messaging System**

Organizers and artists can message private for event details. Messaging system will indicate notification alerts for new messages.

8. **Reporting & Analytics**

The system will generate reports on bookings, revenue, and feedback. Provide data analytics to help administrators make data-driven decisions and improve overall event management.

Non-functional requirements

1. Performance

The system should able to control high traffic during peak times and response times for user action should be under 2 seconds.

2. Security

The system must handle and secured sensitive information like payment details. System compliance with data protection regulations.

3. Reliability

The system should ensure continuous availability. The system should provide robust error handling and recovery mechanisms.

4. Usability

The system should provide user friendly interfaces for all user roles to do their tasks easily in a easy manner.

1.5. Chapter Summary

This chapter discusses about the introduction of the system, current users and the problems identified in the existing systems and the objectives of the proposed software and the solutions for the identified problems are also discussed.

Chapter 02

2. Methodology

2.1. Introduction

This section describes the overall plan which will be used throughout the process of making the software system into a reality.

2.2. Data Collection Method(s)

Primary data collection (Interview/focus group)

- To gain an in-depth understanding of perceptions or opinions.
- Verbally ask participants open-ended questions in individual interviews.
- focus group discussions for understand user types and their expectations.

Secondary data collection

- Markert research reports to analyze data.
- Competitor analysis on existing event platforms like BookMyShow to see what features works well or missing.
- Insights from organizers and performers posted online that highlight common industry challenges.

2.3. Software Process Model

There are several software process models for creating software. For the EventsTunes.lk we have adopted the Agile methodology. This iterative approach allows for continuous improvement and flexibility throughout the development process.

- Iterative Development: Breakdown the project into manageable iterations allow us to deliver functional component of the platform.
- User-Centric Design: To ensure the platform meets user needs continuously integrated with feedback from organizers, artists, bands, and dance groups.
- Continuous Testing: End of each iteration conduct testing helps to identify and address issues promptly.
- Adaptability: we can adjust the development process based on stakeholder requirements and feedbacks.

2.4. Software Development Tools

The Events Tunes Website in order to get success we have researched about the best software development tools and following tools are utilized to facilitate the development. These tools ensuring a streamlined and efficient process.

- Frontend Development : HTML / CSS / JavaScript / PHP
- Backend Database : SQL
- Flow chart/ ER Diagram : draw.io
- UI/UX Design : Figma

2.5. Testing Strategies

We have used Agile Testing strategy because we have to ensure quality is maintained throughout the development process. Testing is embedded within each iteration.

- Continuous Testing

Automated tests running continuously at various stages of development. This helps to identify defects early and often.

- Test Automation

The manual testing will time consuming but this approach increases test coverage of repetitive and time-consuming tests and allows for quick regression testing.

- Continuous integration and Continuous Deployment (CI/CD)

Integration testing into CI/CD pipe line ensures that every code before being deployed to production undergoes automated testing.

2.6. Implementation Plan

The implementation of the EventsTunes.lk will be direct implementation because it will be low costly and can be implemented with less time.

2.7. Chapter Summary

This chapter discusses the data collection methods used to create the software system, the process model chosen to carry out the software development, tools which will be used, the testing strategies which will be used as well as the implementation plan of the proposed software.

Chapter 03

3. Analysis

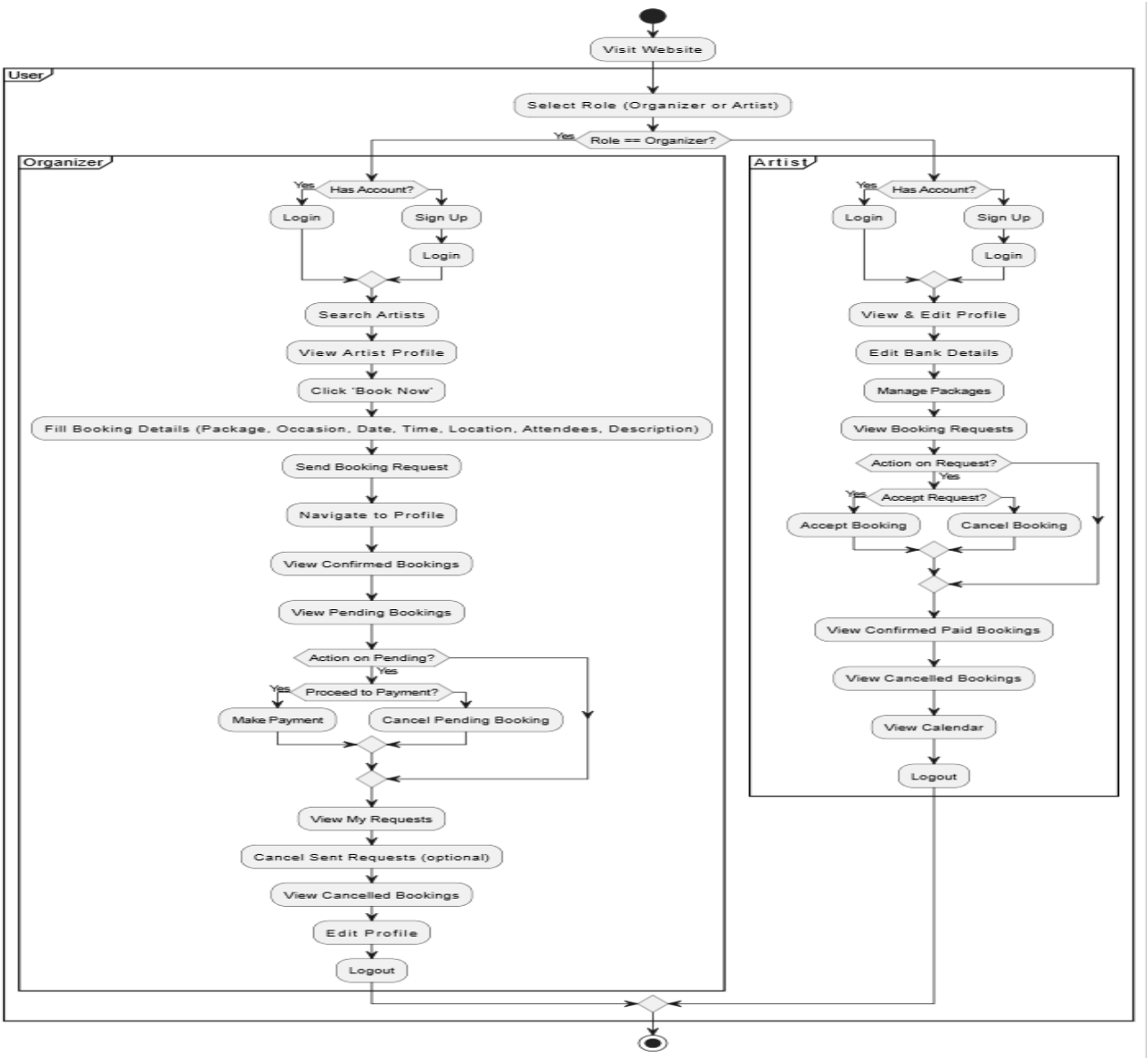
3.1. Introduction

The Events Tunes Analysis Model is a technical representation of the website. It works as a link between the website description and design model. In Analysis Modelling, behavior, information, and functions of the system are defined and translated into the component, architecture, and interface level of design in the design modeling.

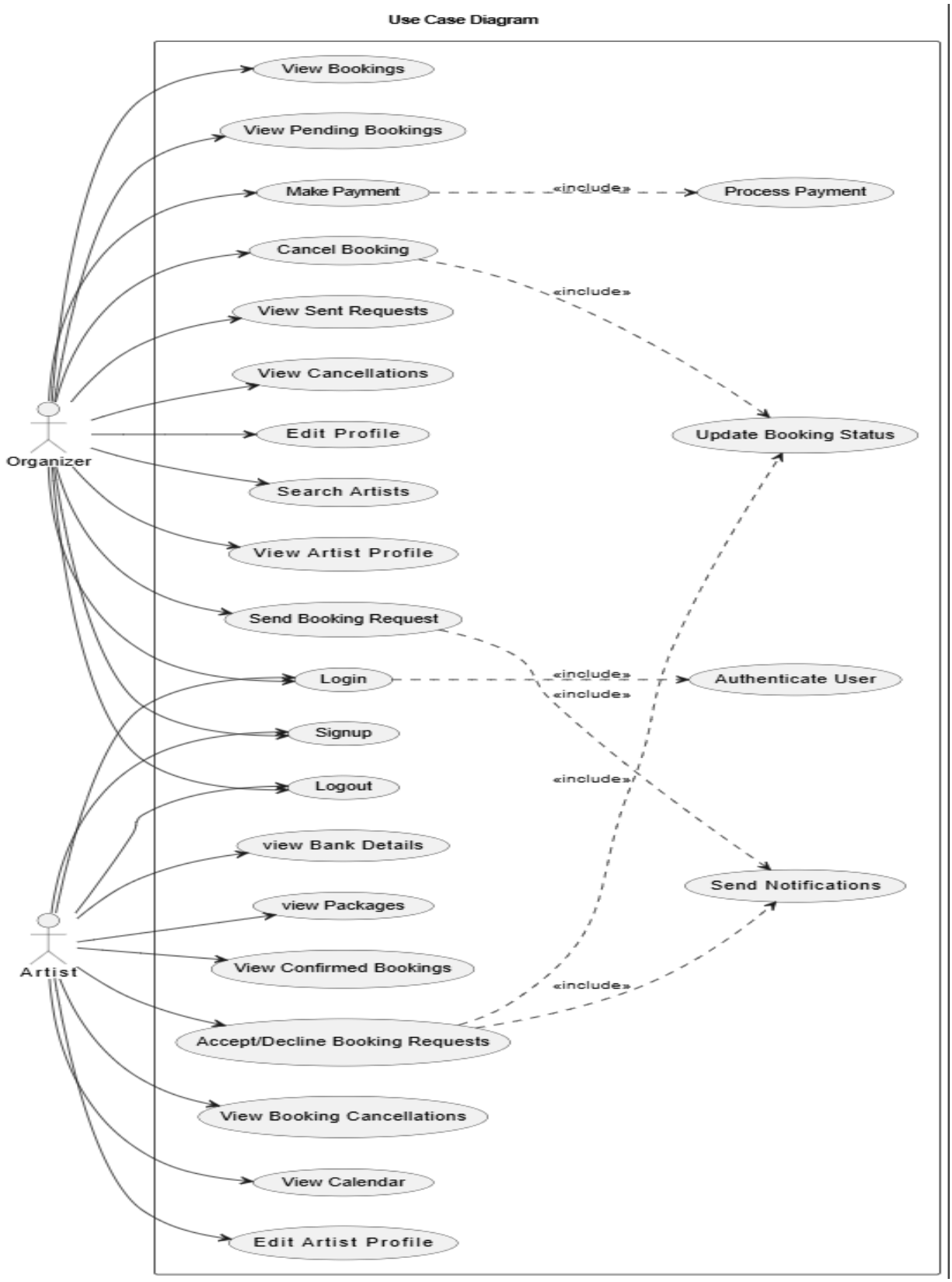
The chapter is focusing on project analysis of each process and the way of analyzing the problems. The sub headings illustrate each function and diagrams that is related to this system.

3.2. UML Diagrams

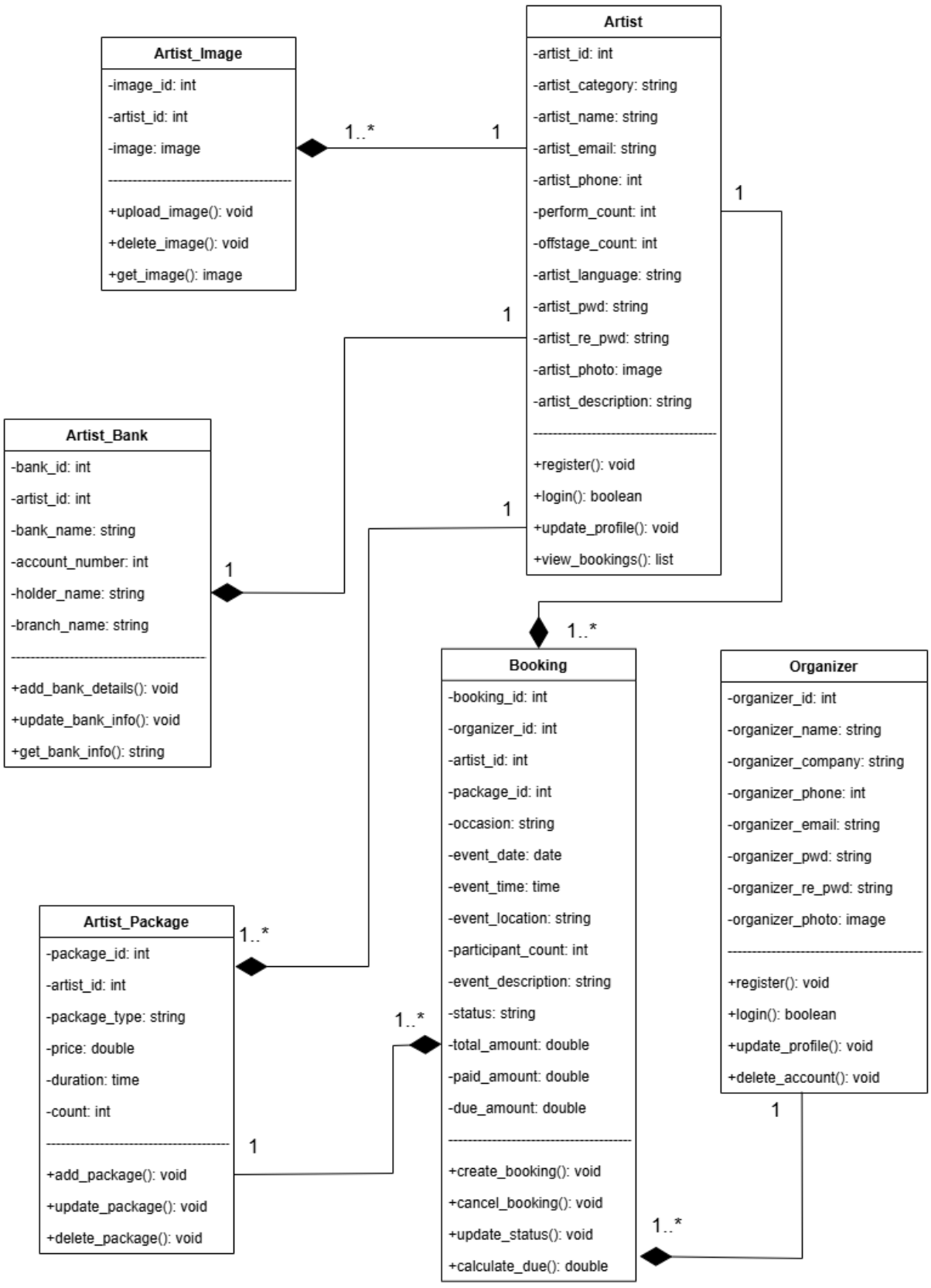
Process Diagram of the Proposed System



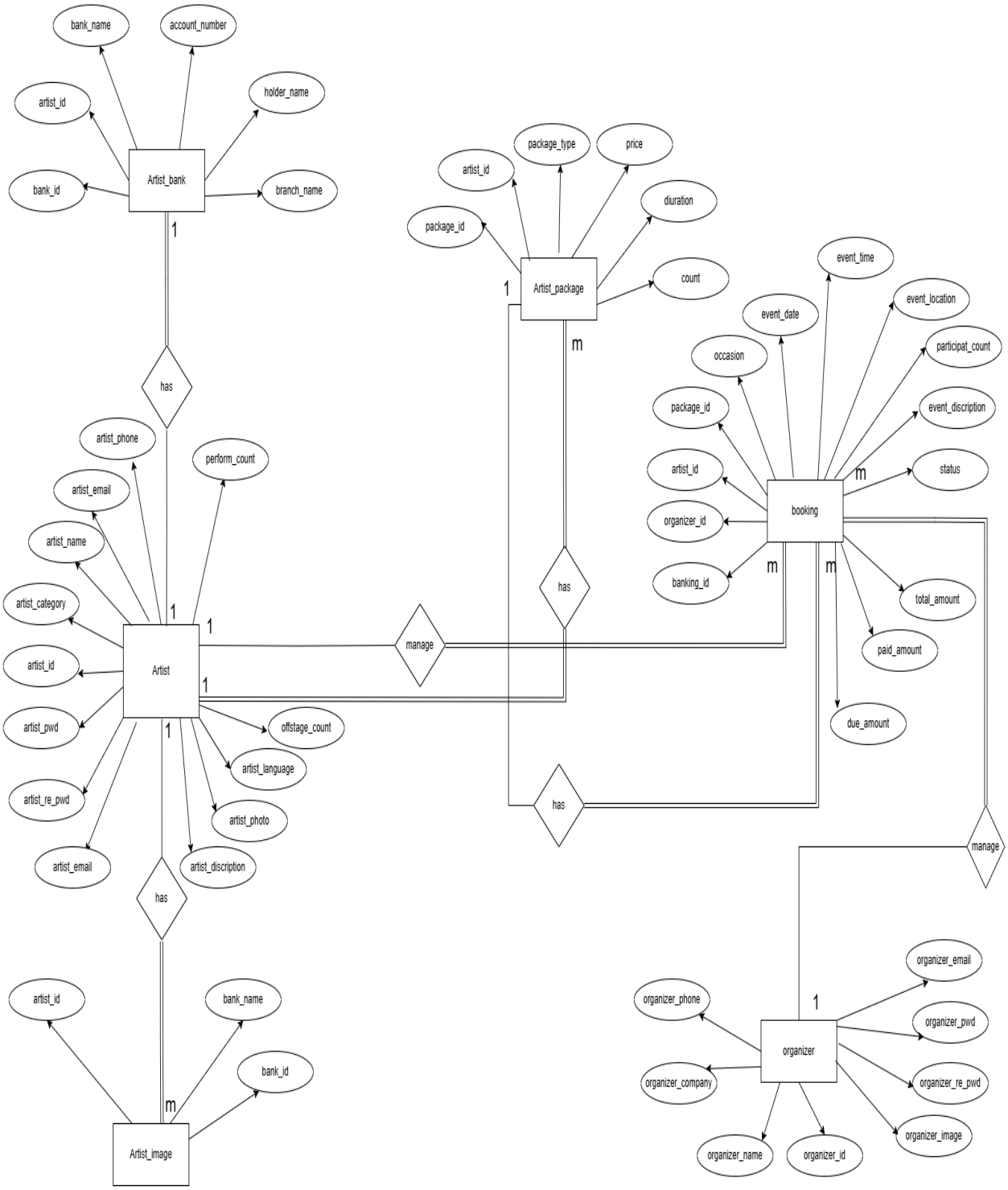
Use Case Diagram of the Proposed System



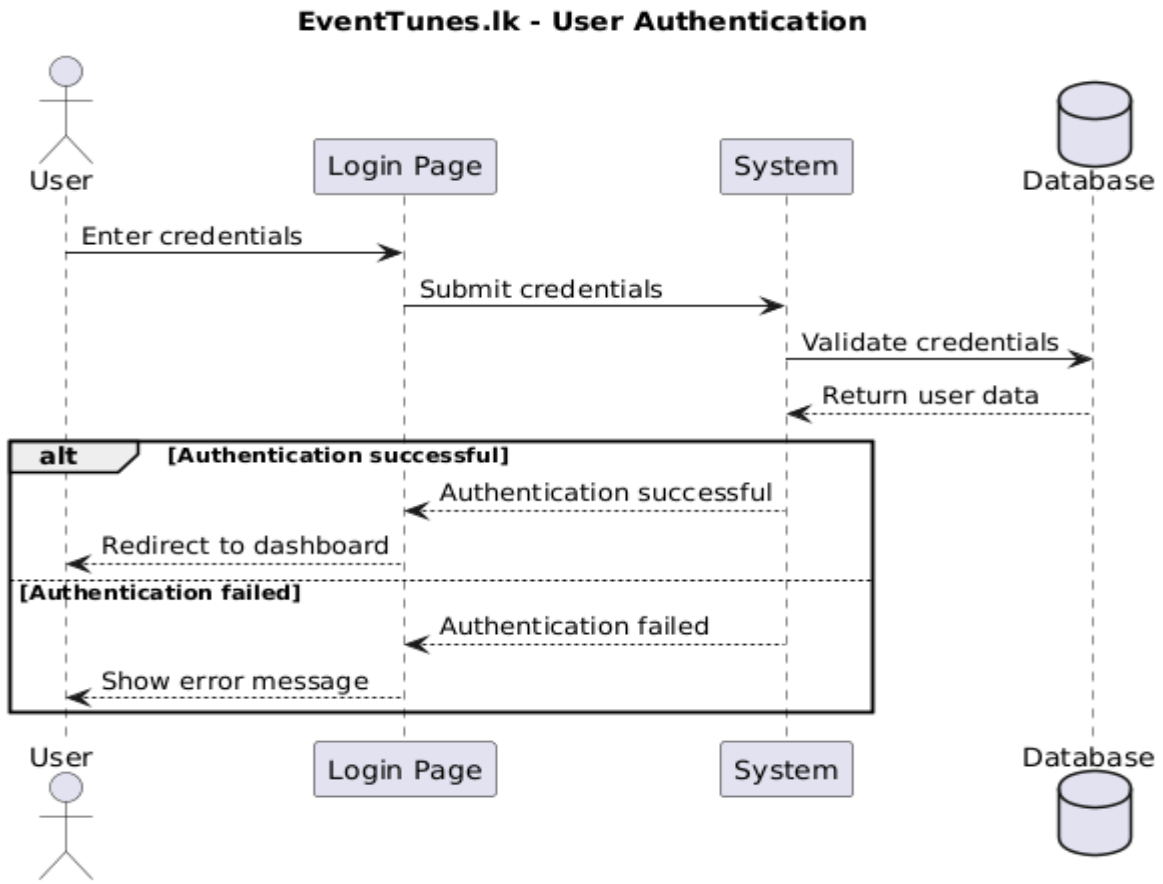
Class Case Diagram of the Proposed System

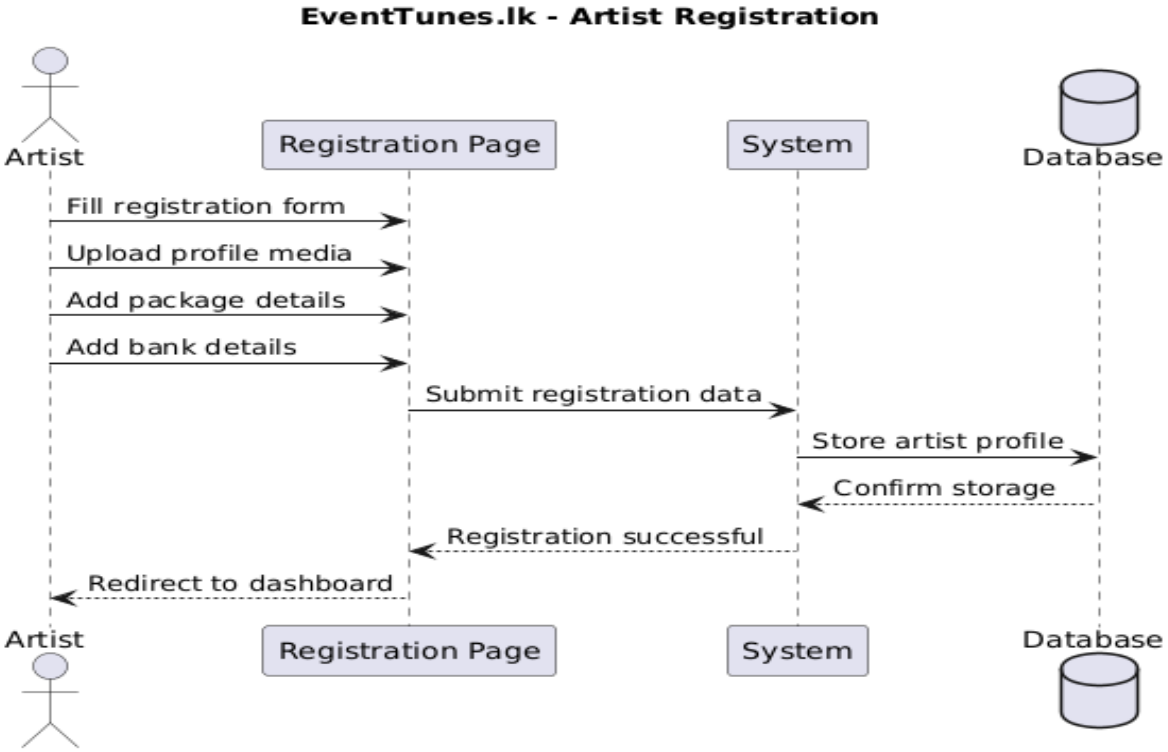


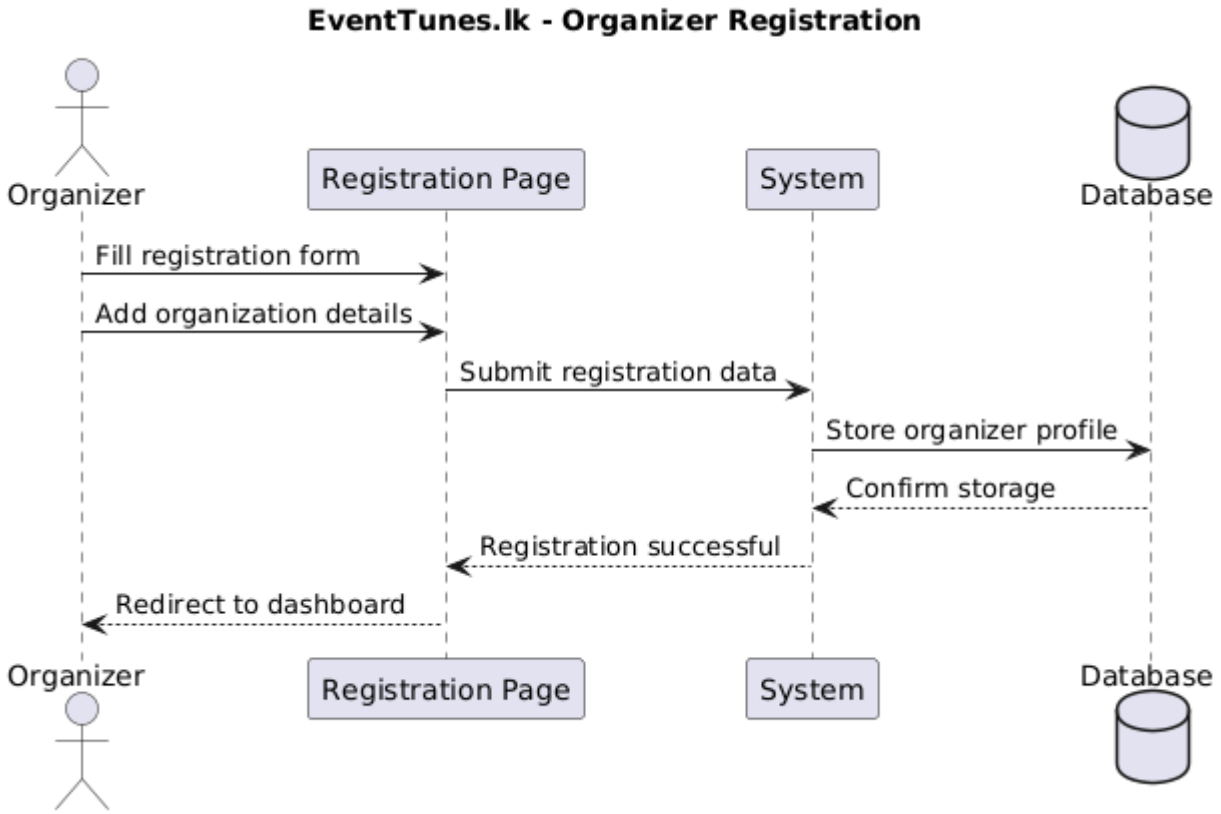
ER Diagram of the Proposed System

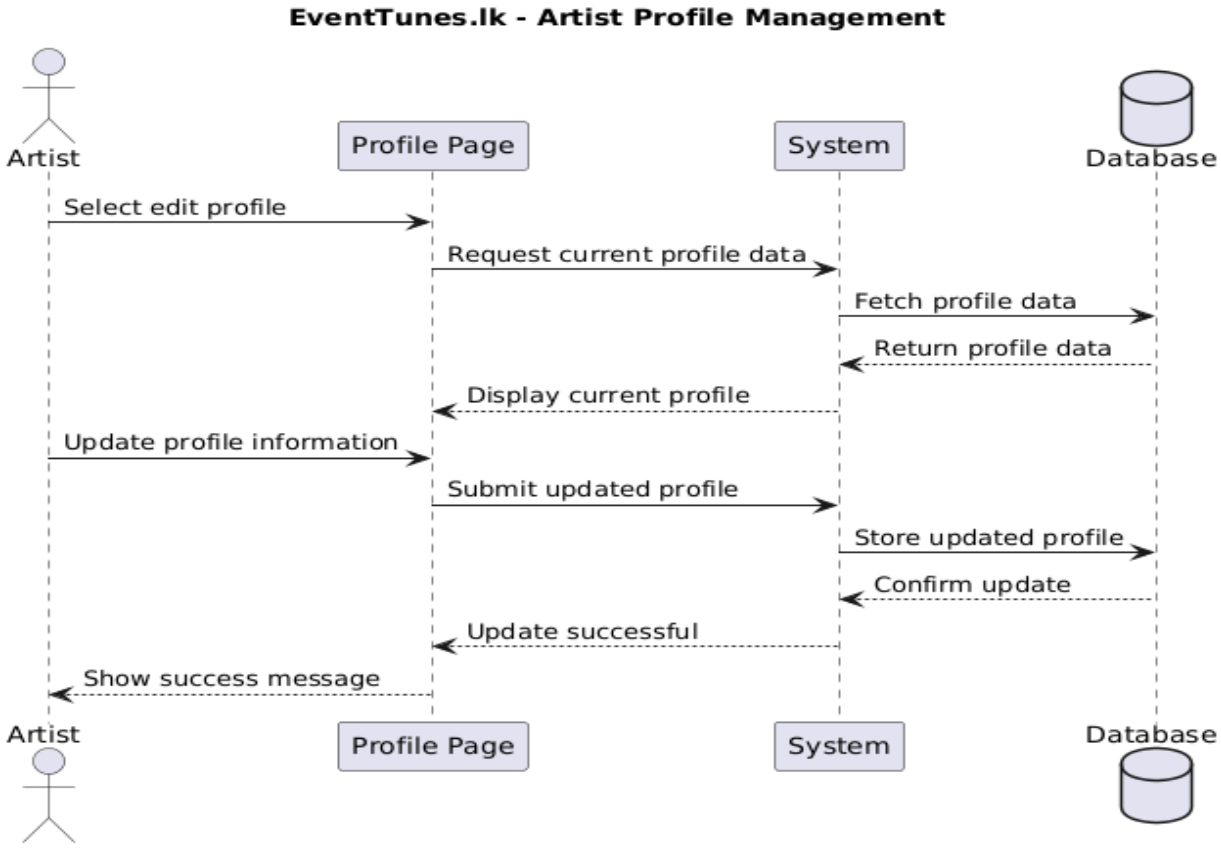


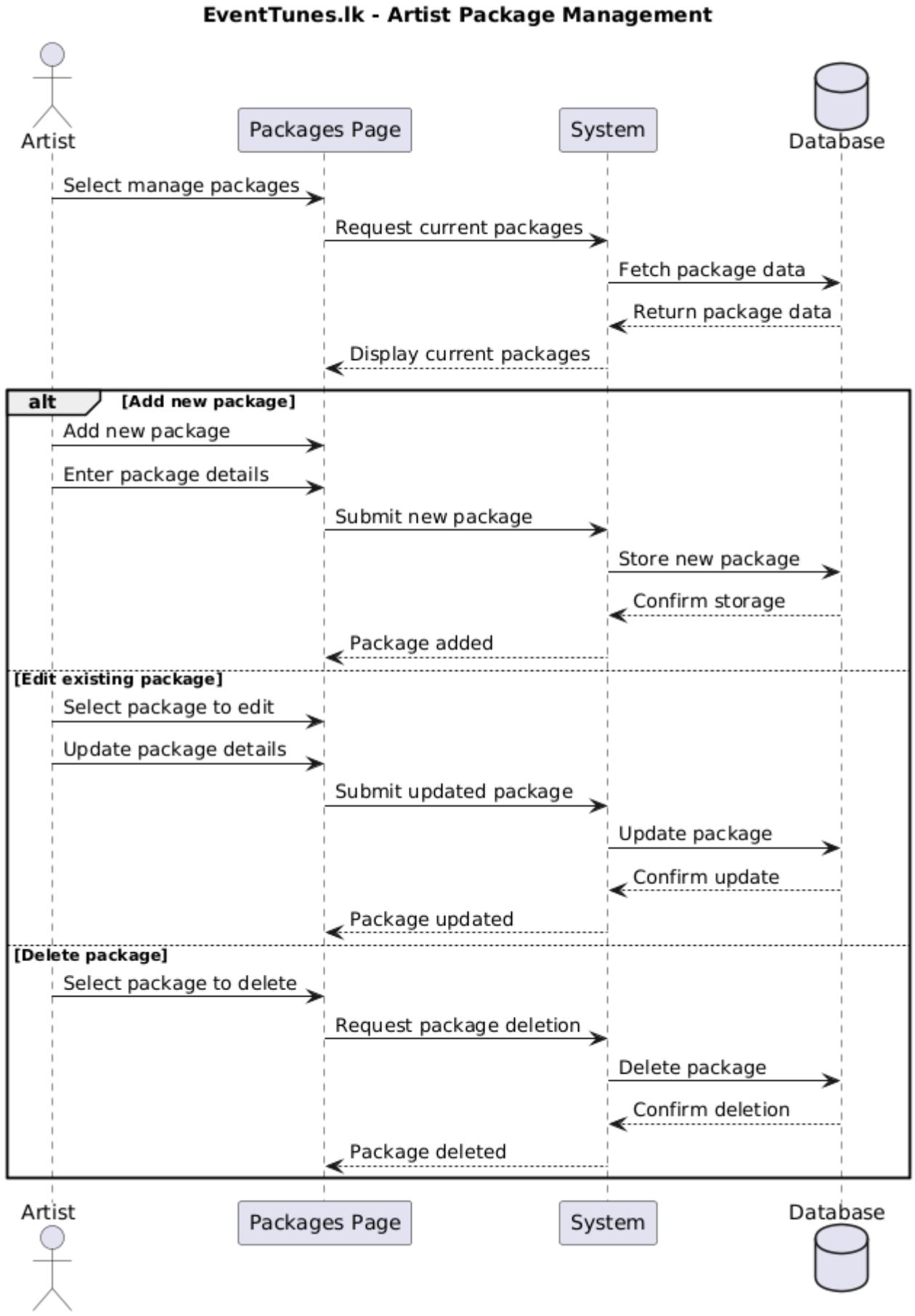
Sequence Diagram of the Proposed System

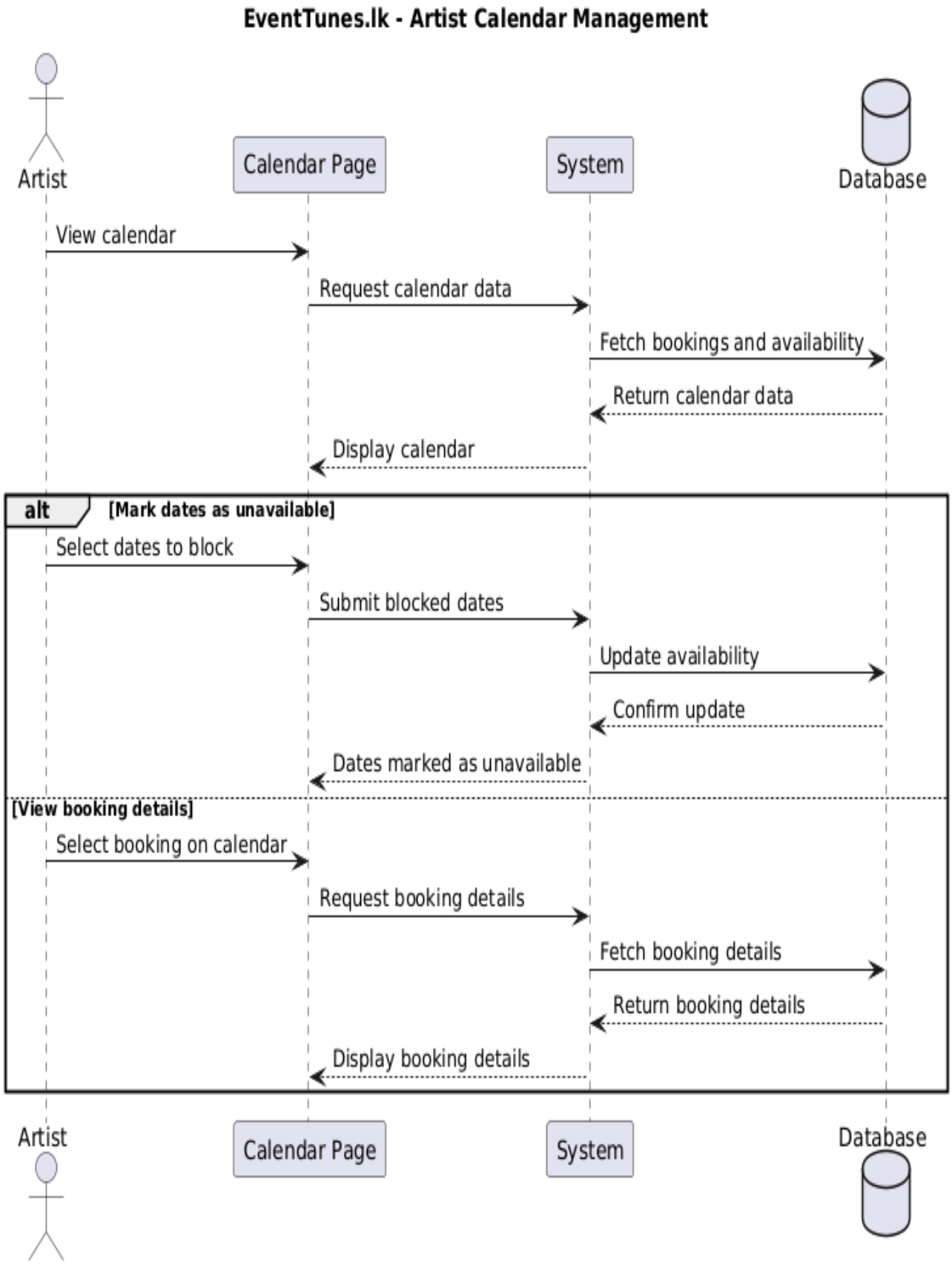


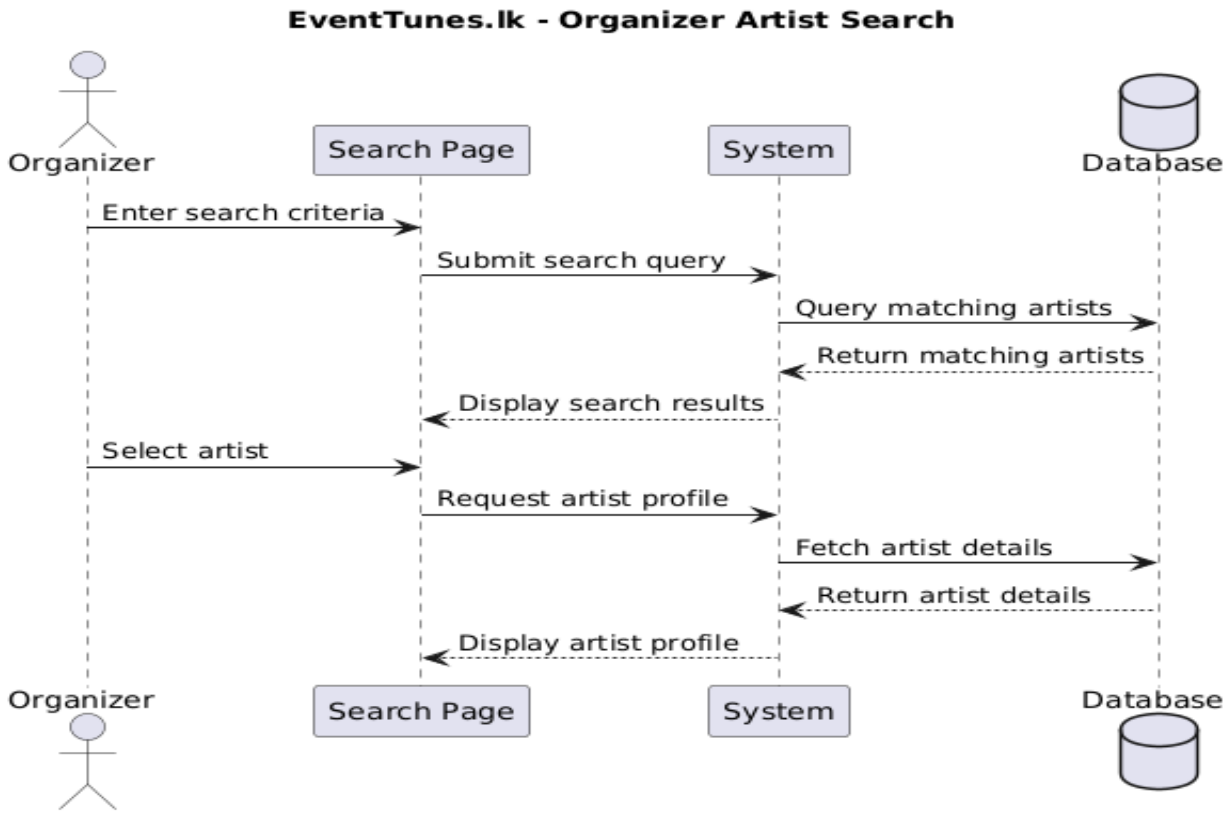


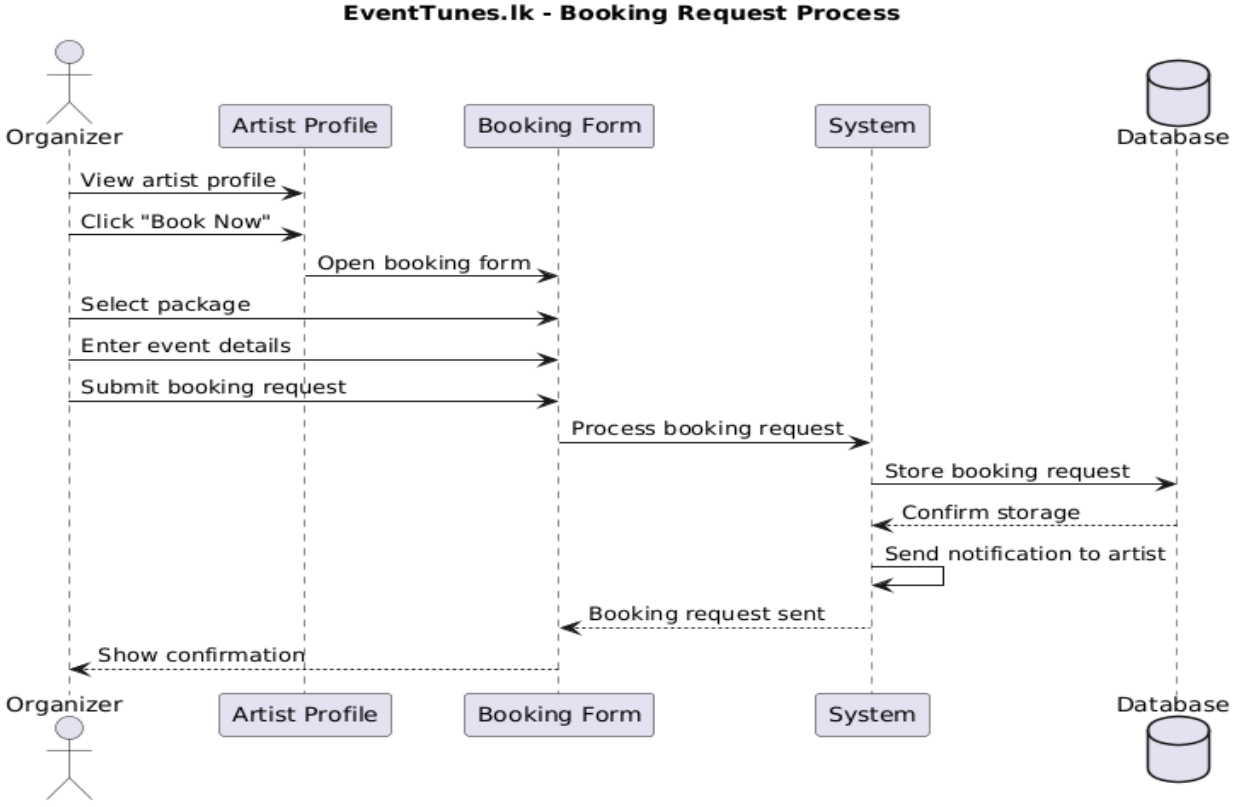

EventTunes.lk - Organizer Registration
Organizer
Registration Page
System
Database
Fill registration form
Add organization details
Submit registration data
Store organizer profile
Confirm storage
Registration successful
Redirect to dashboard
Organizer
Registration Page
System
Database

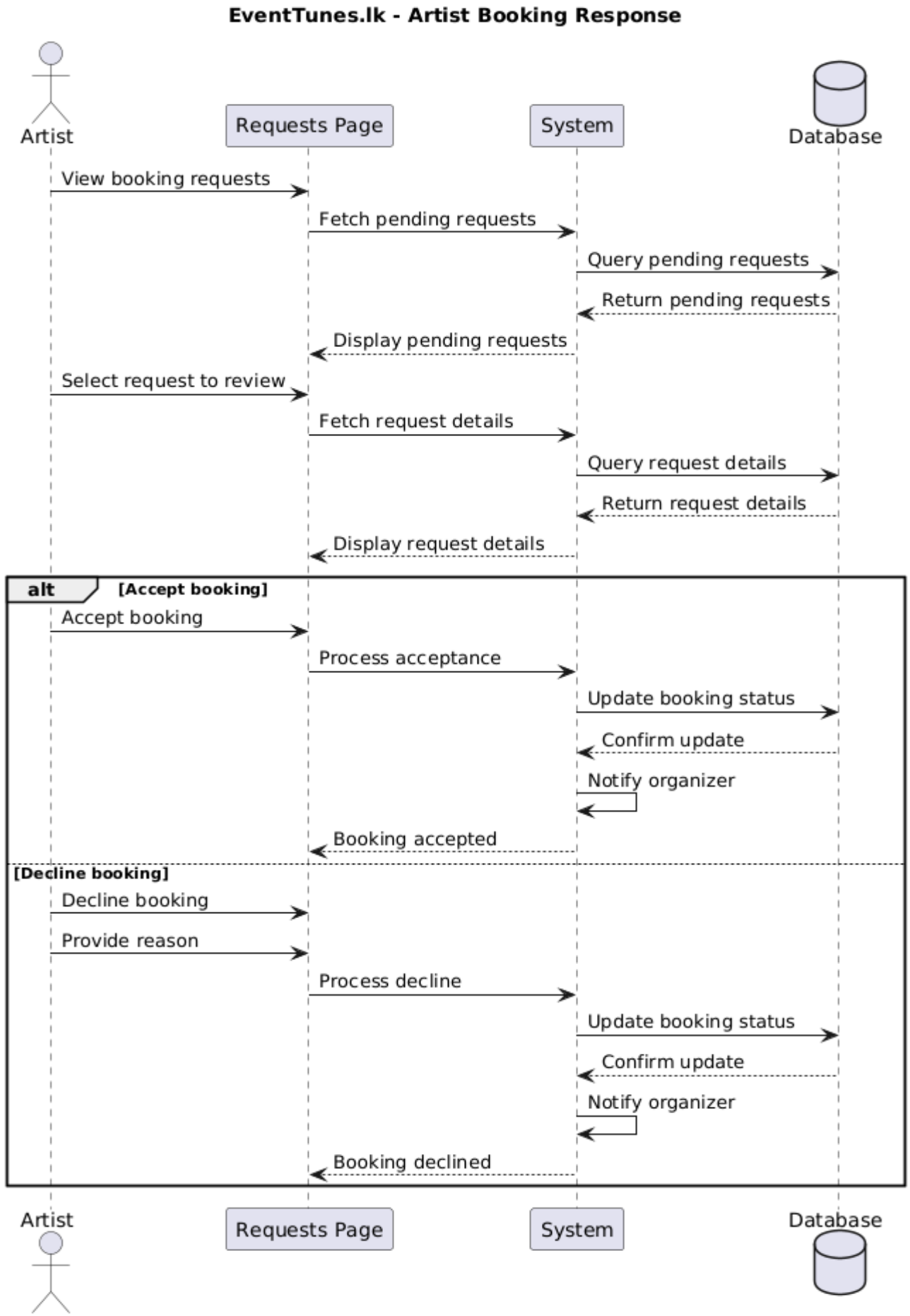

EventTunes.lk - Artist Profile Management
Artist
Profile Page
System
Database
Select edit profile
Request current profile data
Fetch profile data
Return profile data
Display current profile
Update profile information
Submit updated profile
Store updated profile
Confirm update
Update successful
Show success message
Artist
Profile Page
System
Database

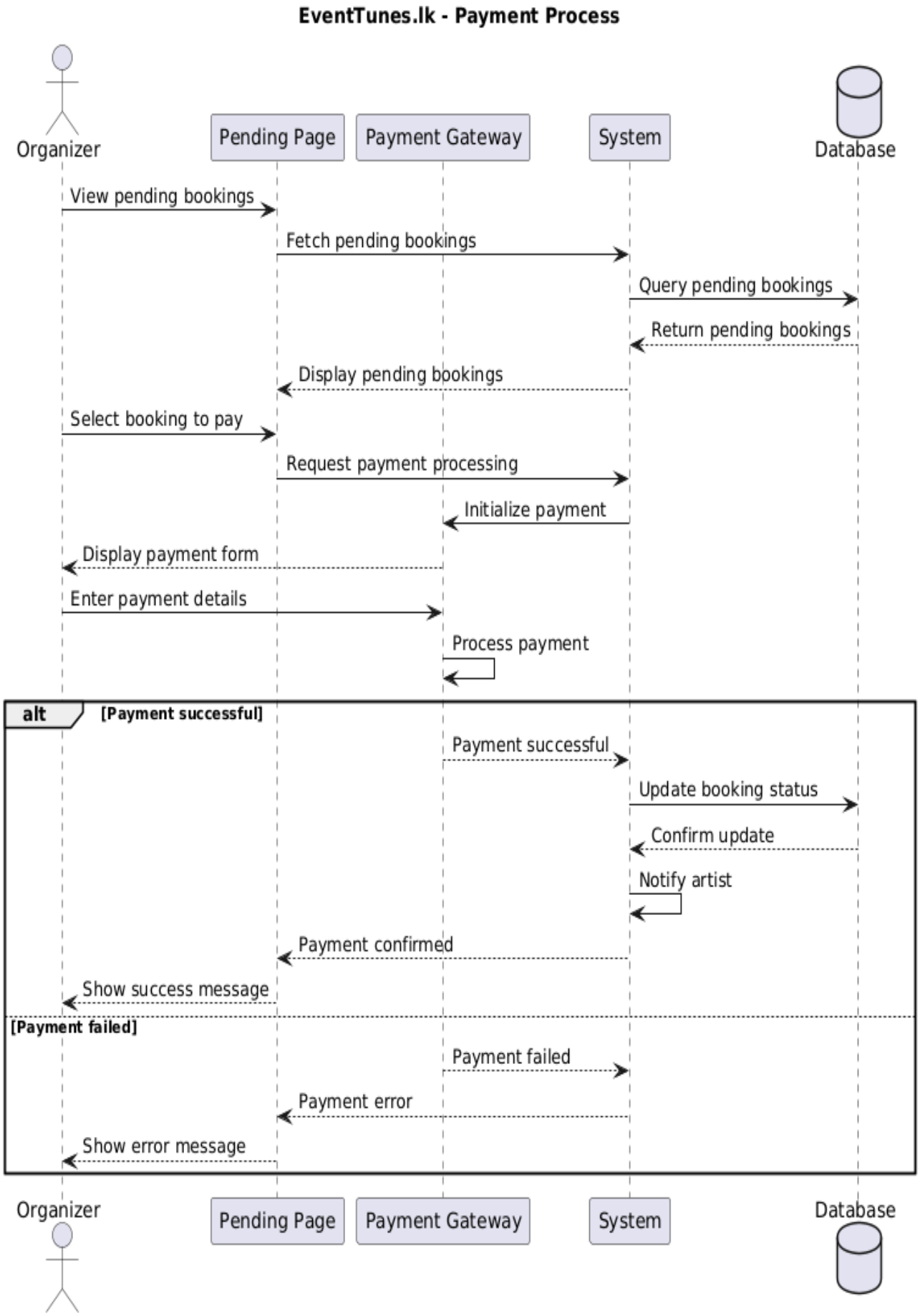

EventTunes.lk - Artist Package Management
Artist
Packages Page
System
Database
Select manage packages
Request current packages
Fetch package data
Return package data
Display current packages
alt
[Add new package]
Add new package
Enter package details
Submit new package
Store new package
Confirm storage
Package added
[Edit existing package]
Select package to edit
Update package details
Submit updated package
Update package
Confirm update
Package updated
[Delete package]
Select package to delete
Request package deletion
Delete package
Confirm deletion
Package deleted
Artist
Packages Page
System
Database

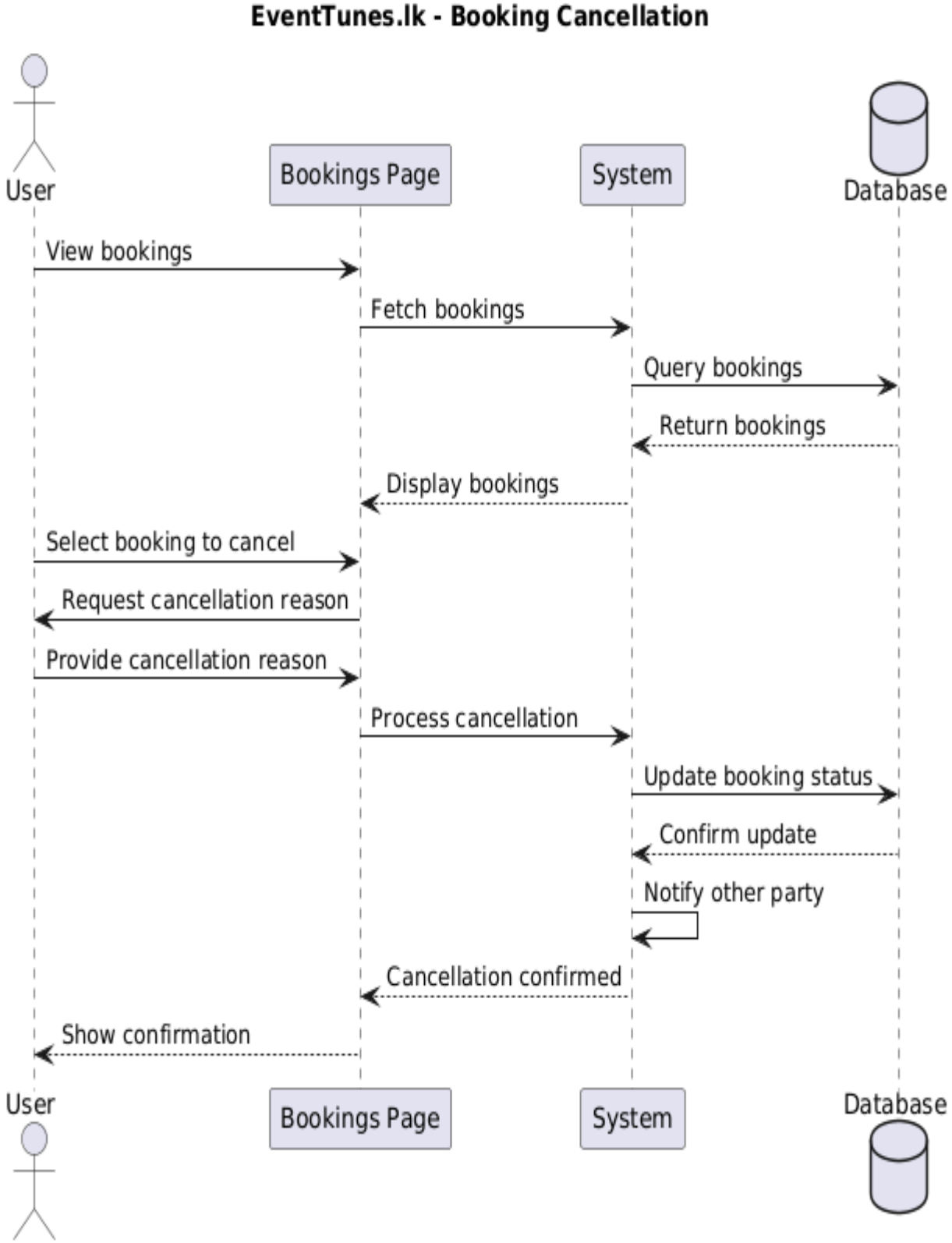

EventTunes.lk - Artist Calendar Management
Artist
Calendar Page
System
Database
View calendar
Request calendar data
Fetch bookings and availability
Return calendar data
Display calendar
alt
[Mark dates as unavailable]
Select dates to block
Submit blocked dates
Update availability
Confirm update
Dates marked as unavailable
[View booking details]
Select booking on calendar
Request booking details
Fetch booking details
Return booking details
Display booking details
Artist
Calendar Page
System
Database


EventTunes.lk - Organizer Artist Search
Organizer
Search Page
System
Database
Enter search criteria
Submit search query
Query matching artists
Return matching artists
Display search results
Select artist
Request artist profile
Fetch artist details
Return artist details
Display artist profile
Organizer
Search Page
System
Database


EventTunes.lk - Booking Request Process
Organizer
Artist Profile
Booking Form
System
Database
View artist profile
Click "Book Now"
Open booking form
Select package
Enter event details
Submit booking request
Process booking request
Store booking request
Confirm storage
Send notification to artist
Booking request sent
Show confirmation
Organizer
Artist Profile
Booking Form
System
Database


EventTunes.lk - Artist Booking Response
Artist
Requests Page
System
Database
View booking requests
Fetch pending requests
Query pending requests
Return pending requests
Display pending requests
Select request to review
Fetch request details
Query request details
Return request details
Display request details
alt
[Accept booking]
Accept booking
Process acceptance
Update booking status
Confirm update
Notify organizer
Booking accepted
[Decline booking]
Decline booking
Provide reason
Process decline
Update booking status
Confirm update
Notify organizer
Booking declined
Artist
Requests Page
System
Database


EventTunes.lk - Payment Process
Organizer
Pending Page
Payment Gateway
System
Database
View pending bookings
Fetch pending bookings
Query pending bookings
Return pending bookings
Display pending bookings
Select booking to pay
Request payment processing
Initialize payment
Display payment form
Enter payment details
Process payment
alt
[Payment successful]
Payment successful
Update booking status
Confirm update
Notify artist
Payment confirmed
Show success message
[Payment failed]
Payment failed
Payment error
Show error message
Organizer
Pending Page
Payment Gateway
System
Database


EventTunes.lk - Booking Cancellation
User
Bookings Page
System
Database
View bookings
Fetch bookings
Query bookings
Return bookings
Display bookings
Select booking to cancel
Request cancellation reason
Provide cancellation reason
Process cancellation
Update booking status
Confirm update
Notify other party
Cancellation confirmed
Show confirmation
User
Bookings Page
System
Database

3.3. Database Design

Oracle Database Schema Design Document

Table: Organizer

Primary Key: organizer_id

Attribute Name	Data Type	Size	Description
organizer_id	INT	11	Unique identifier for the organizer
organizer_name	VARCHAR	50	Name of the organizer
organizer_company	VARCHAR	50	Company name associated with the organizer
organizer_phone	INT	10	Contact phone number of the organizer
organizer_email	VARCHAR	50	Email address of the organizer
organizer_pwd	VARCHAR	225	Encrypted password for organizer account
organizer_re_pwd	VARCHAR	225	Repeated password for verification
organizer_photo	MEDIUMBLOB	-	Profile photo of the organizer

Table: Artist_Bank

Primary Key: bank_id

Foreign Keys: artist_id references artist(artist_id)

Attribute Name	Data Type	Size	Description
bank_id	INT	11	Unique identifier for bank details
artist_id	INT	11	Reference to the artist
bank_name	VARCHAR	50	Name of the bank
account_number	INT	20	Bank account number
holder_name	VARCHAR	30	Name of the account holder
branch_name	VARCHAR	30	Name of the bank branch

Table: Artist

Primary Key: artist_id

Attribute Name	Data Type	Size	Description
artist_id	INT	11	Unique identifier for the artist
artist_category	VARCHAR	20	Category/type of the artist
artist_name	VARCHAR	50	Name of the artist
artist_email	VARCHAR	50	Email address of the artist
artist_phone	INT	10	Contact phone number of the artist
perform_count	INT	20	Number of performances completed
offstage_count	INT	20	Number of offstage appearances
artist_language	VARCHAR	20	Primary language of the artist
artist_pwd	VARCHAR	225	Encrypted password for artist account
artist_re_pwd	VARCHAR	225	Repeated password for verification
artist_photo	MEDIUMBLOB	-	Profile photo of the artist
artist_description	VARCHAR	225	Description about the artist

Table: Artist_Image

Primary Key: image_id

Foreign Keys: artist_id references artist(artist_id)

Attribute Name	Data Type	Size	Description
image_id	INT	11	Unique identifier for the image
artist_id	INT	11	Reference to the artist
image	MEDIUMBLOB	-	Image file of the artist's work/performance

Table: Artist_Package

Primary Key: package_id

Foreign Keys: artist_id references artist(artist_id)

Attribute Name	Data Type	Size	Description
package_id	INT	11	Unique identifier for the package
artist_id	INT	11	Reference to the artist
package_type	VARCHAR	20	Type of package offered
price	DECIMAL	10,0	Price of the package
duration	TIME	-	Duration of the performance
count	INT	20	Number of performances included in package

Table: Booking

Primary Key: booking_id

Foreign Keys: organizer_id references organizer(organizer_id)

artist_id references artist(artist_id)

package_id references artist_package(package_id)

Attribute Name	Data Type	Size	Description
booking_id	NUMBER	11	Unique identifier for the booking
organizer_id	INT	11	Reference to the organizer making the booking
artist_id	INT	11	Reference to the artist being booked
package_id	INT	11	Reference to the package selected
occasion	VARCHAR	50	Type of occasion/event
event_date	DATE	-	Date of the event
event_time	TIME	-	Time of the event
event_location	VARCHAR	50	Location where the event will be held
participant_count	INT	20	Number of participants expected
event_description	VARCHAR	225	Description of the event

status	VARCHAR	20	Current status of the booking
total_amount	DECIMAL	10,0	Total amount for the booking
paid_amount	DECIMAL	10,0	Amount already paid
due_amount	DECIMAL	10,0	Amount still due for payment

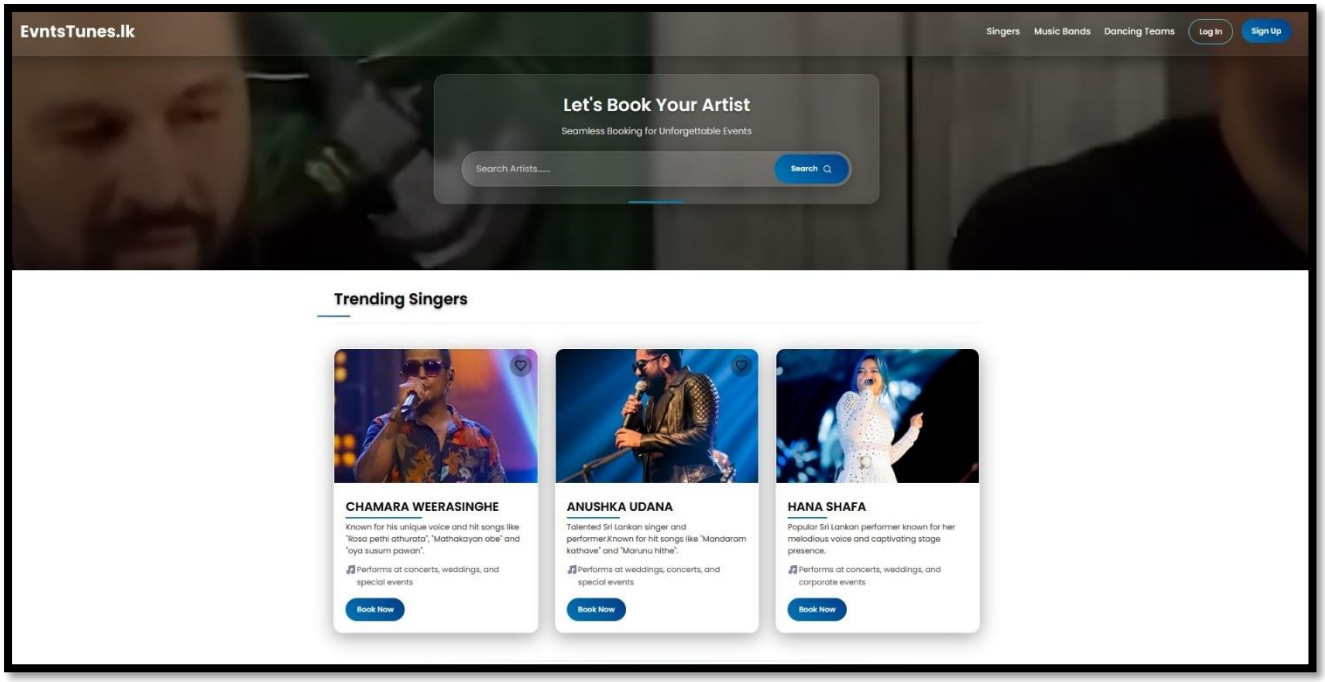
3.4. Chapter Summary

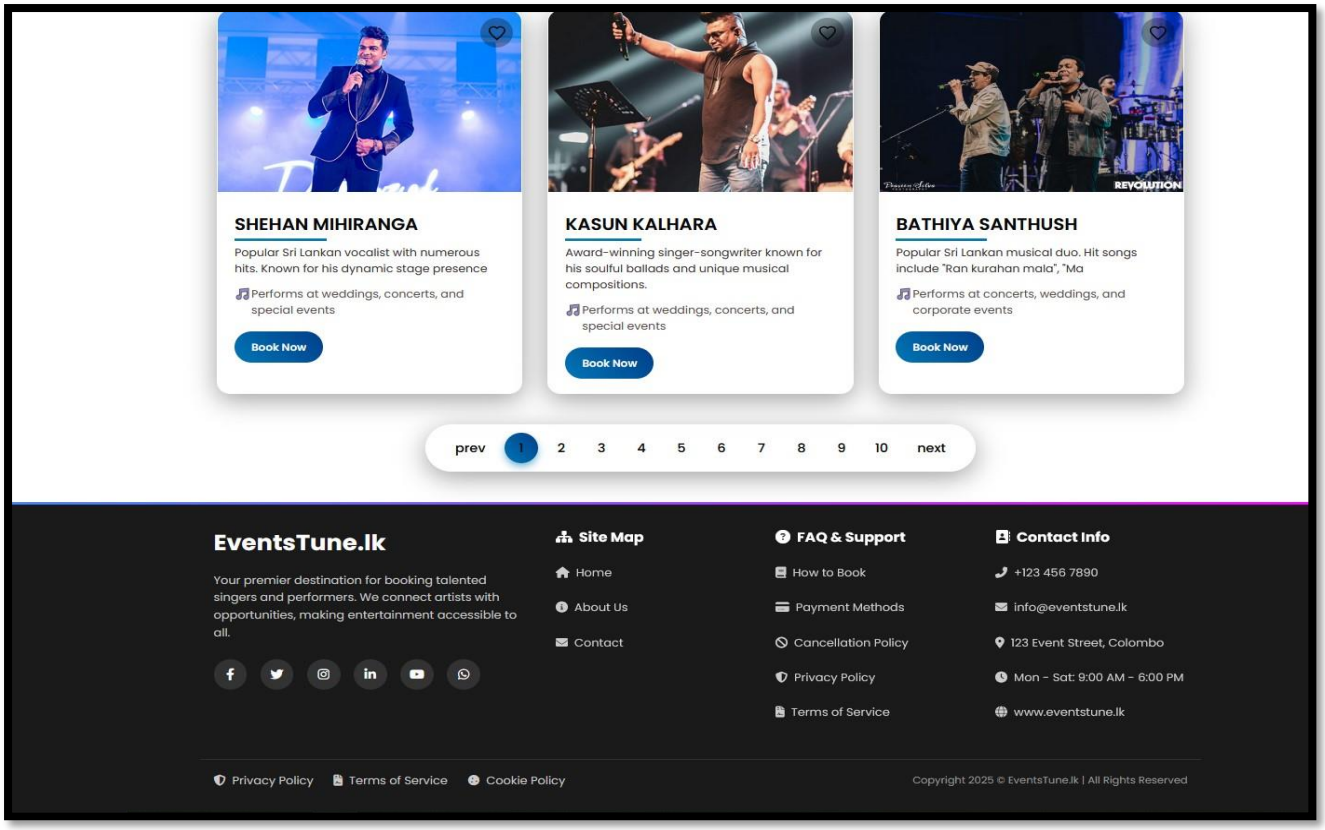
This chapter demonstrates all the diagrams designed including UML, ER, and file design starting from the uses case of the existing system. We have identified the problem within the existing system and create use case diagram for the proposed system. According to the proposed use case we have created class diagram, sequence diagram, and ER diagram.

Chapter 04

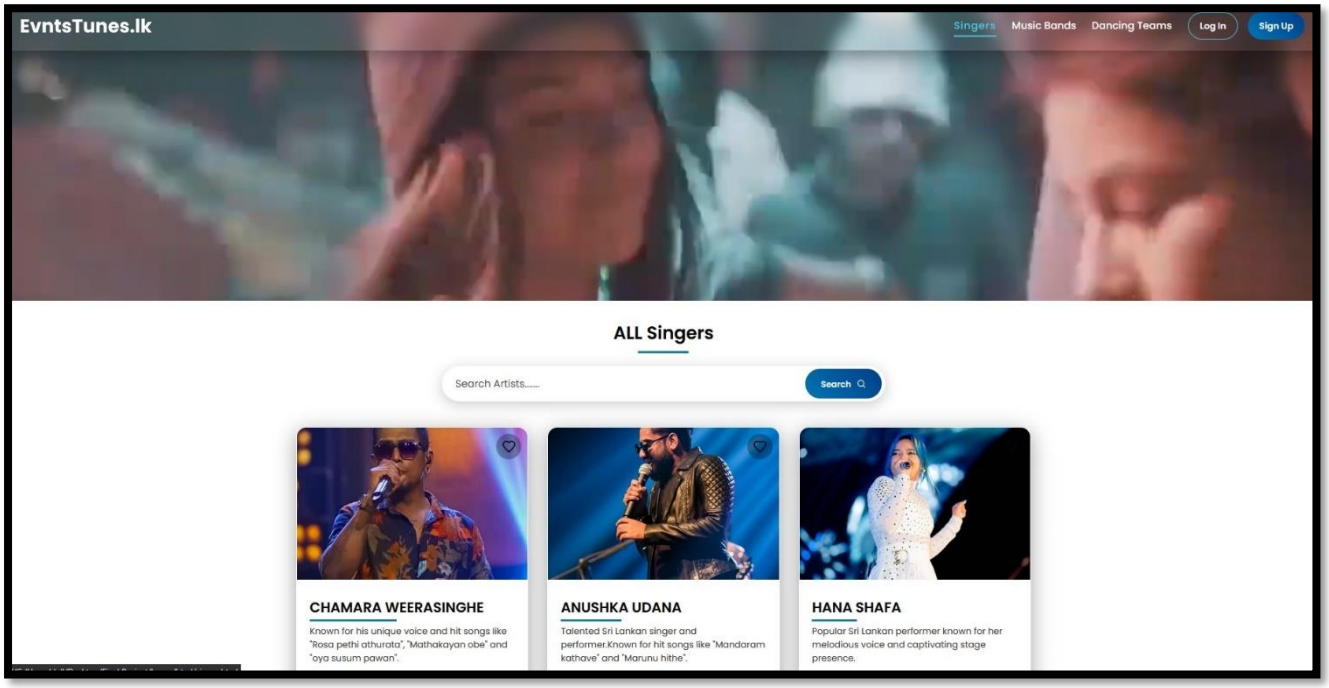
4. Interface Design

Home Page

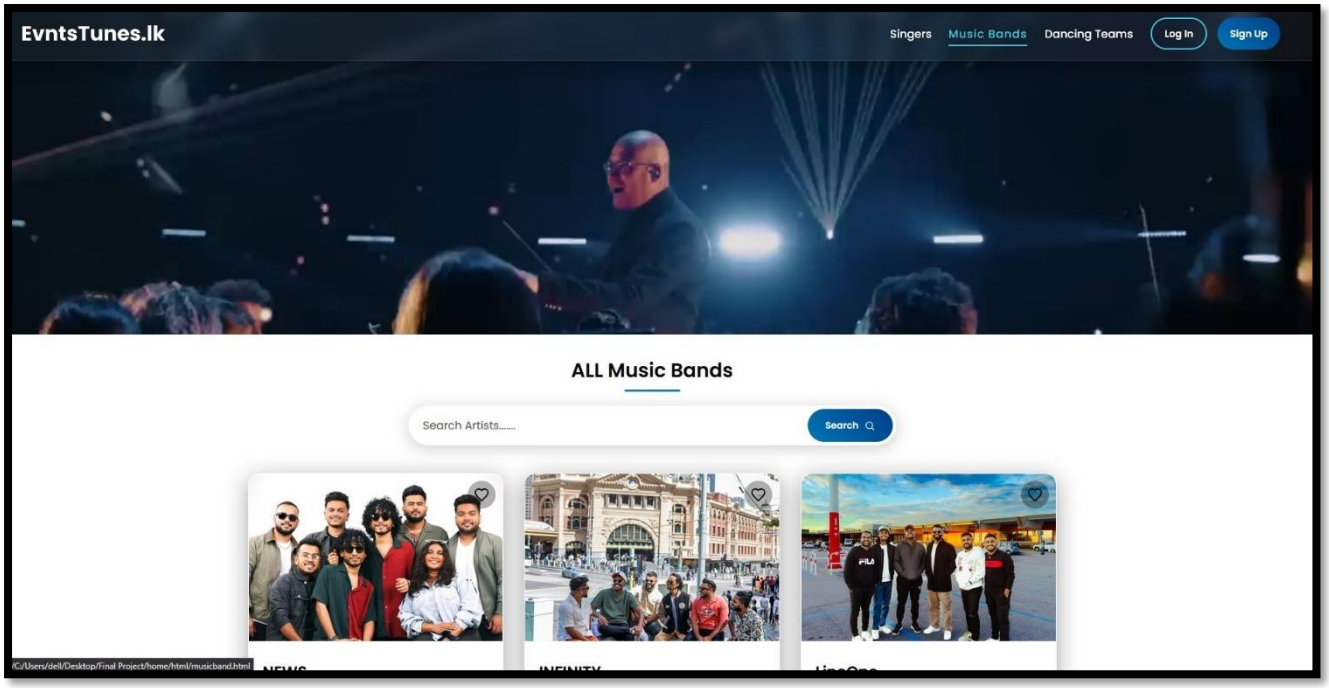




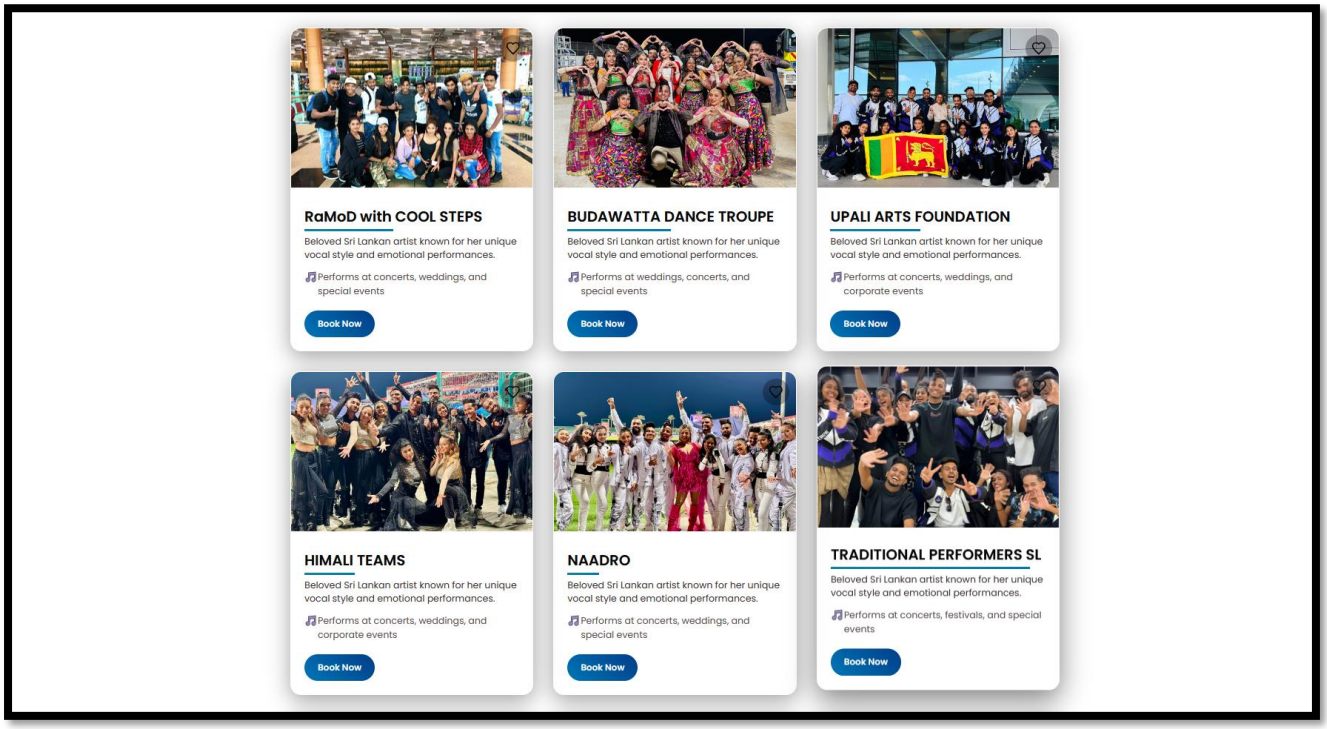
Singers Page



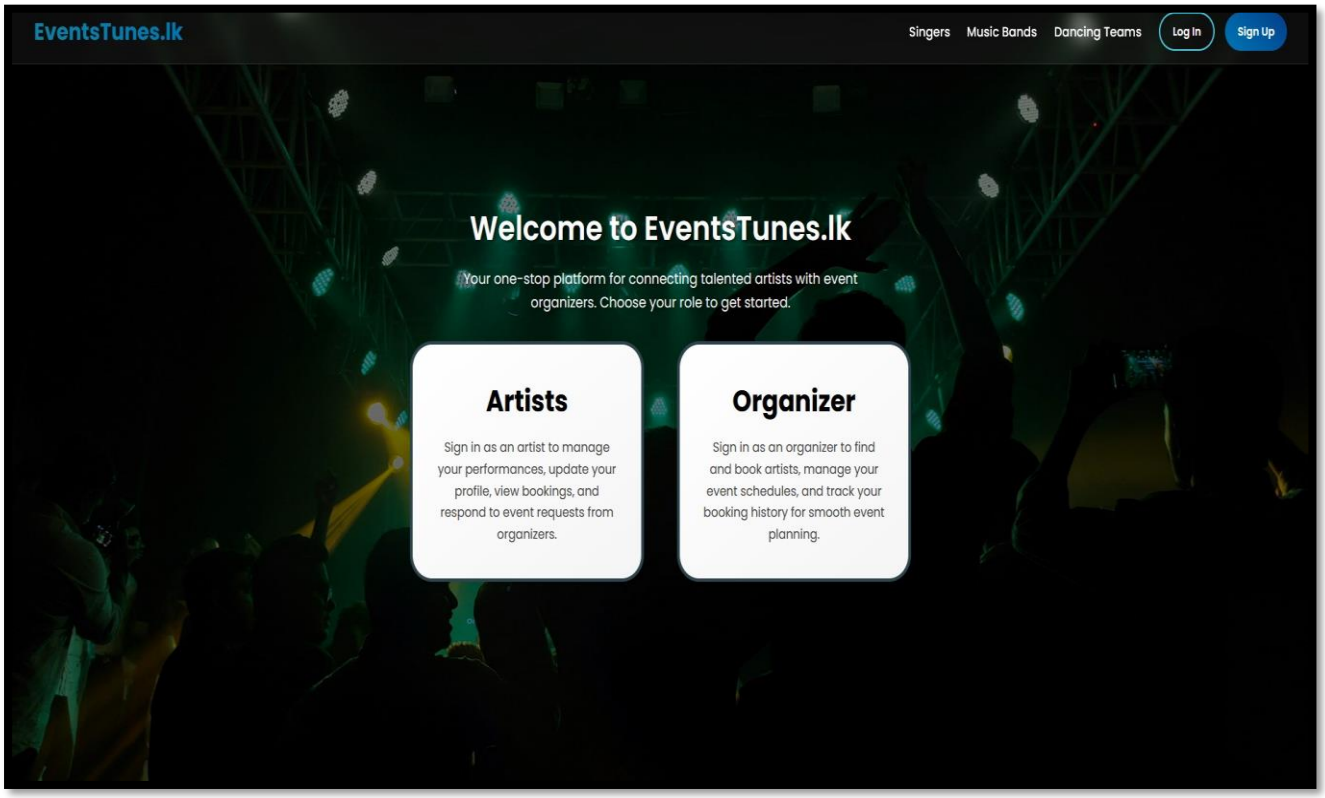
Music Bands Page



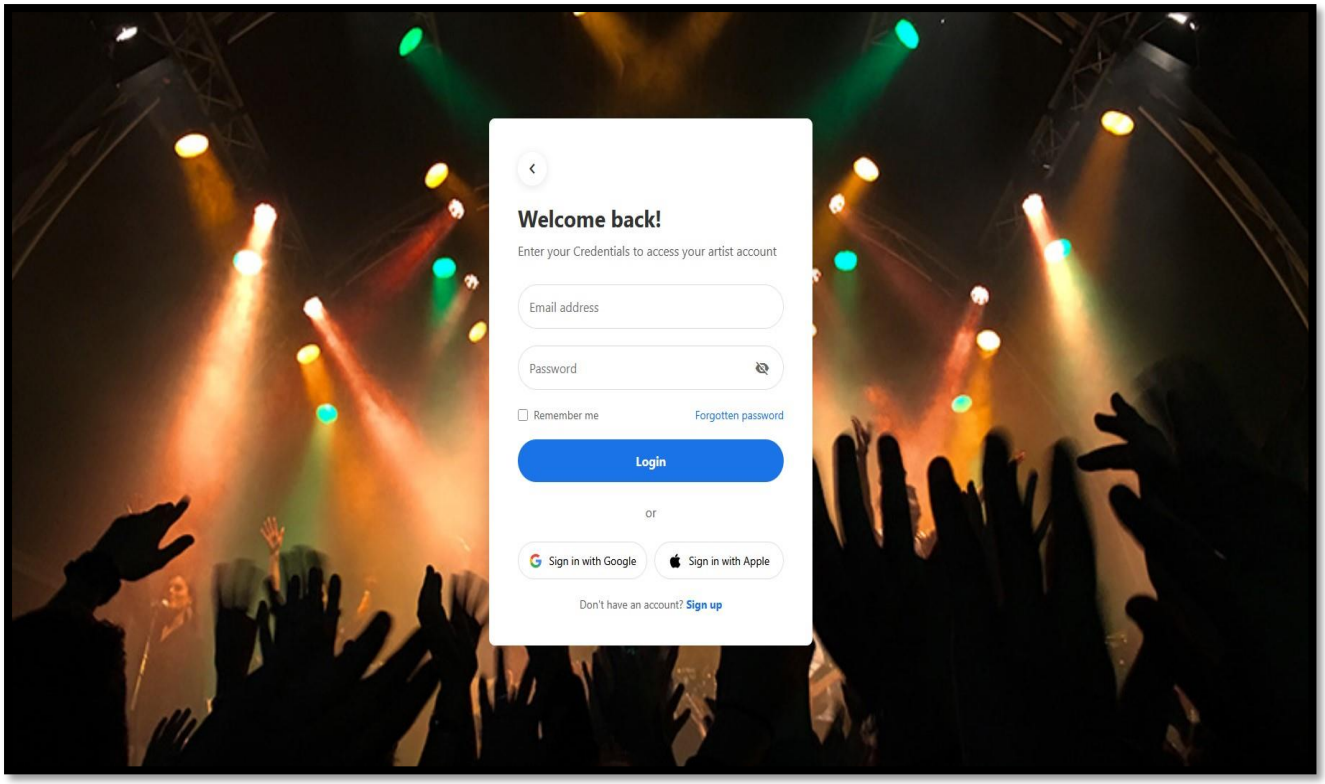
Dancing Teams Page



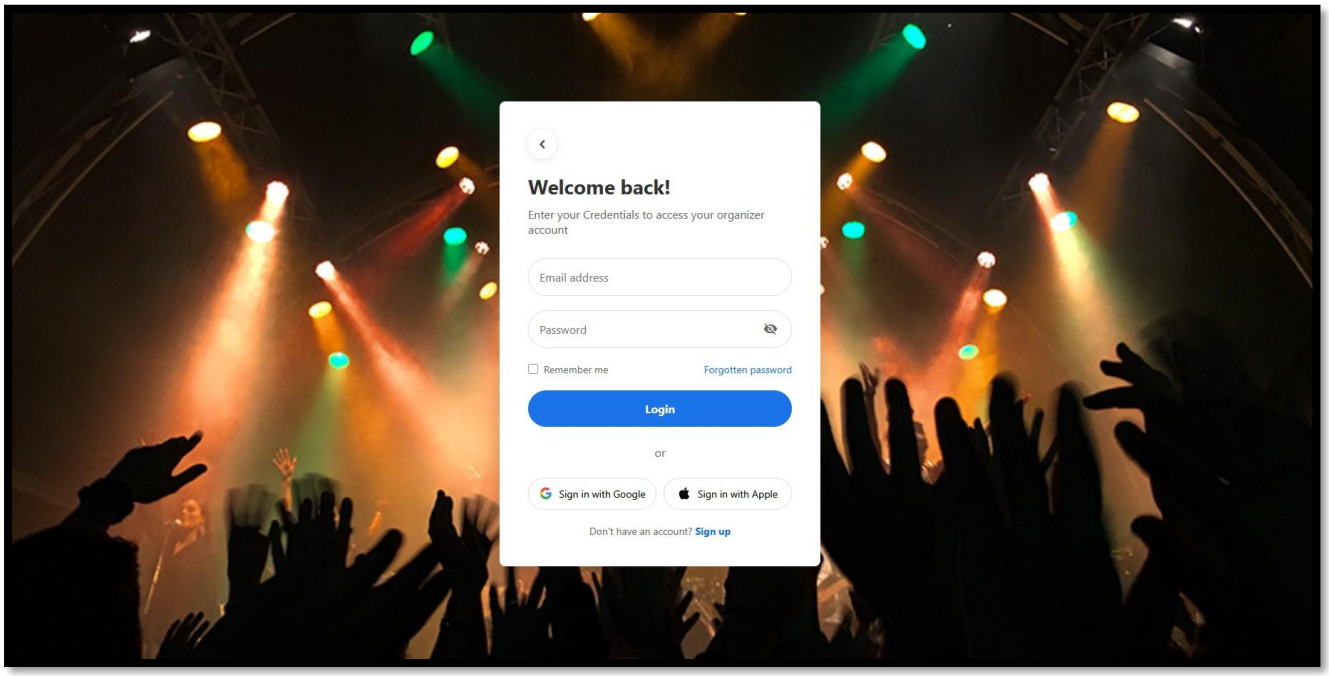
Login Page



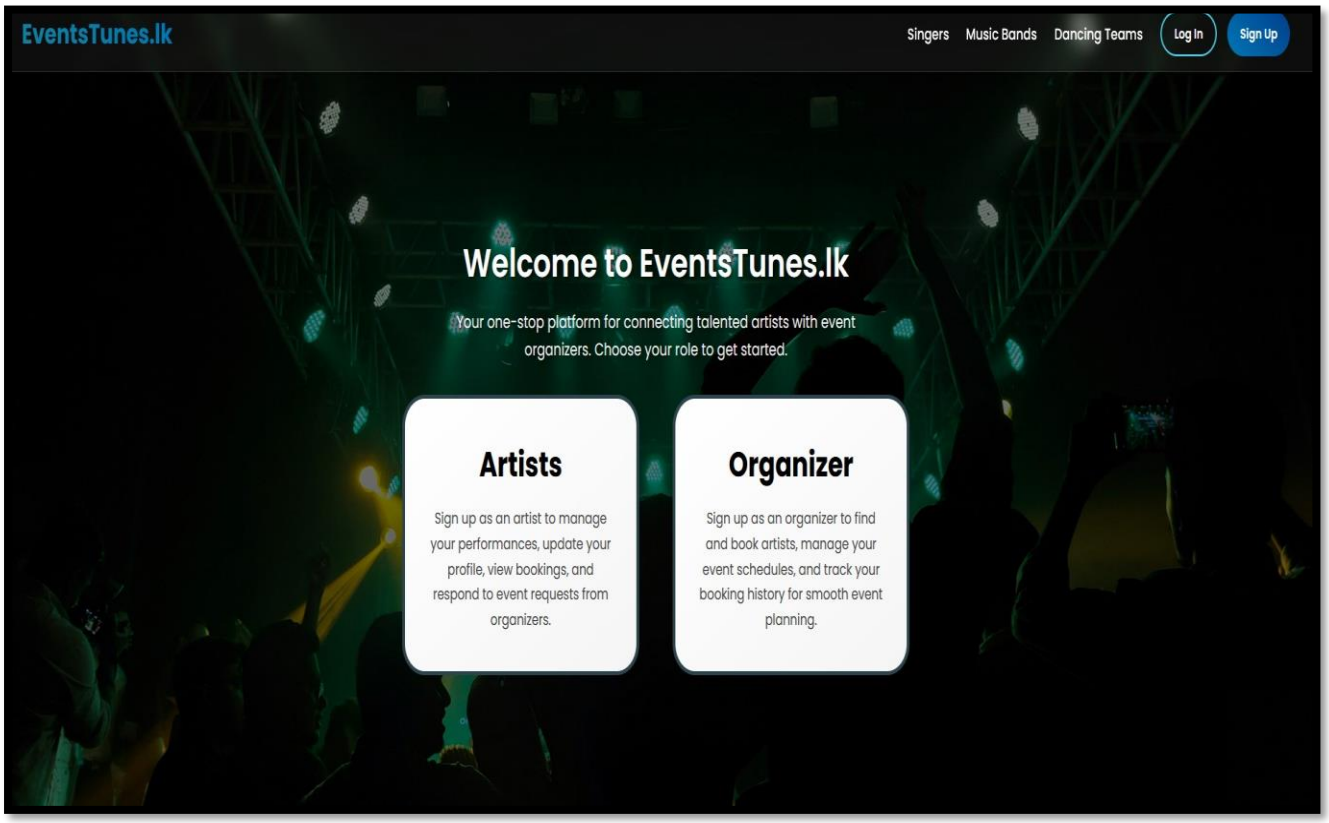
Artists Login page



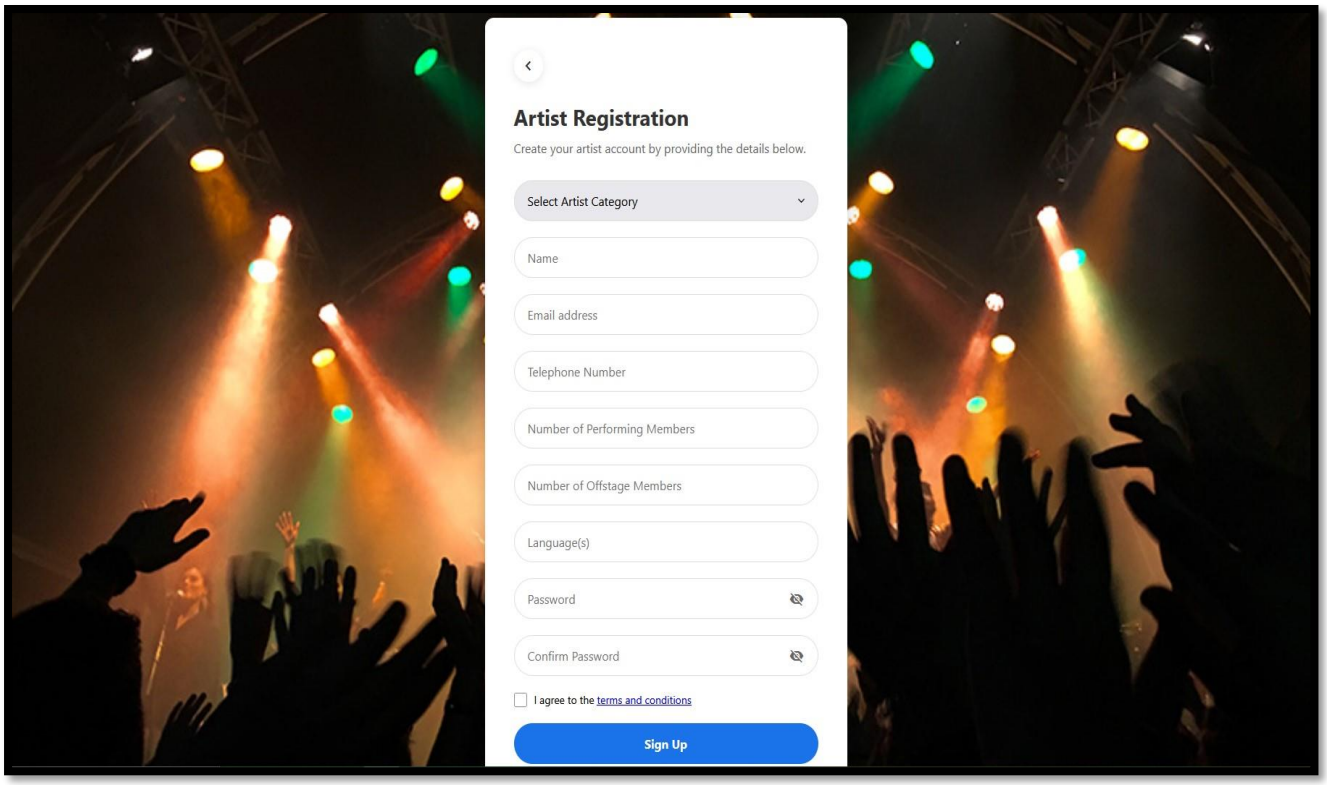
Organizer Login page



Sign Up Page



Artists Sign up page



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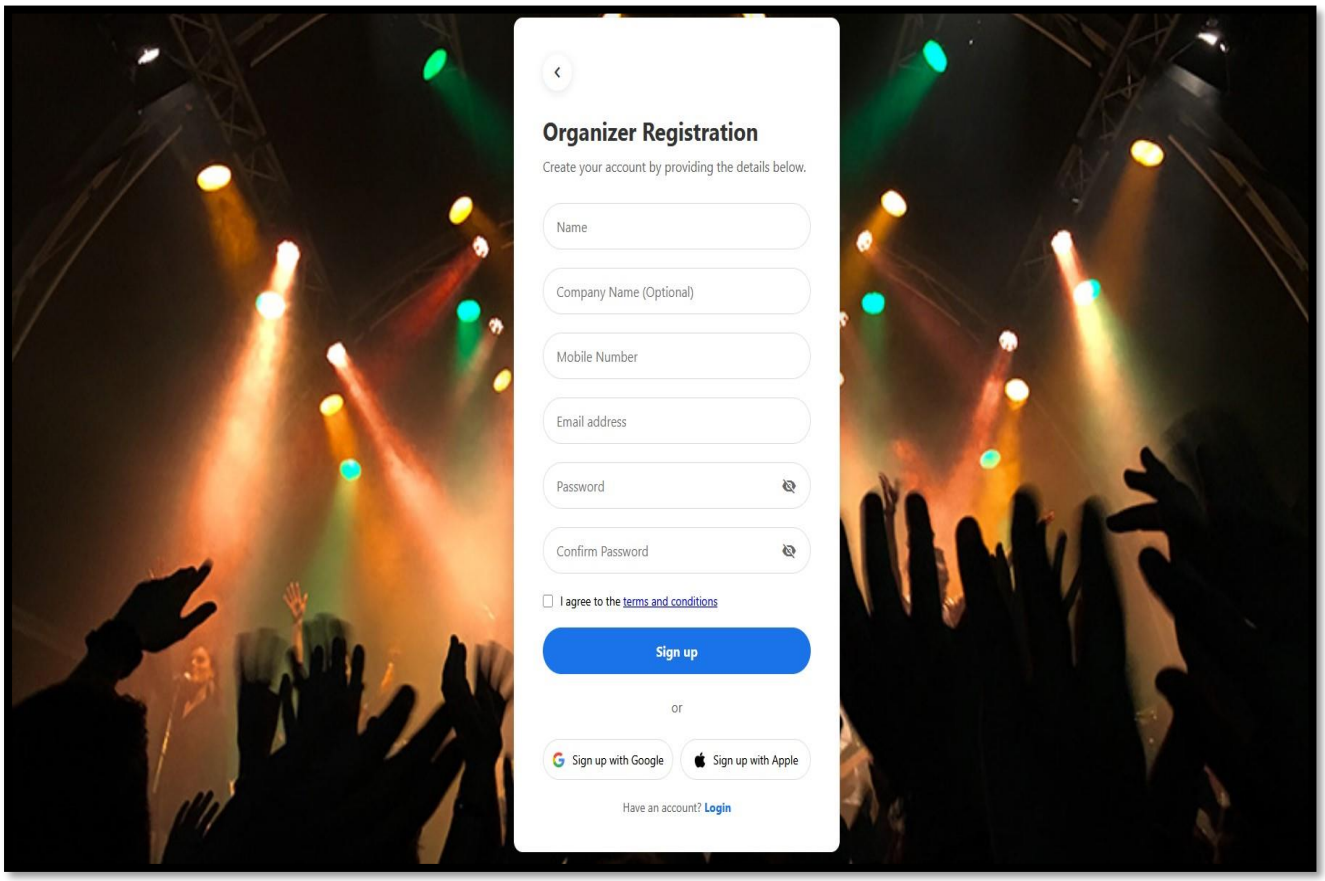

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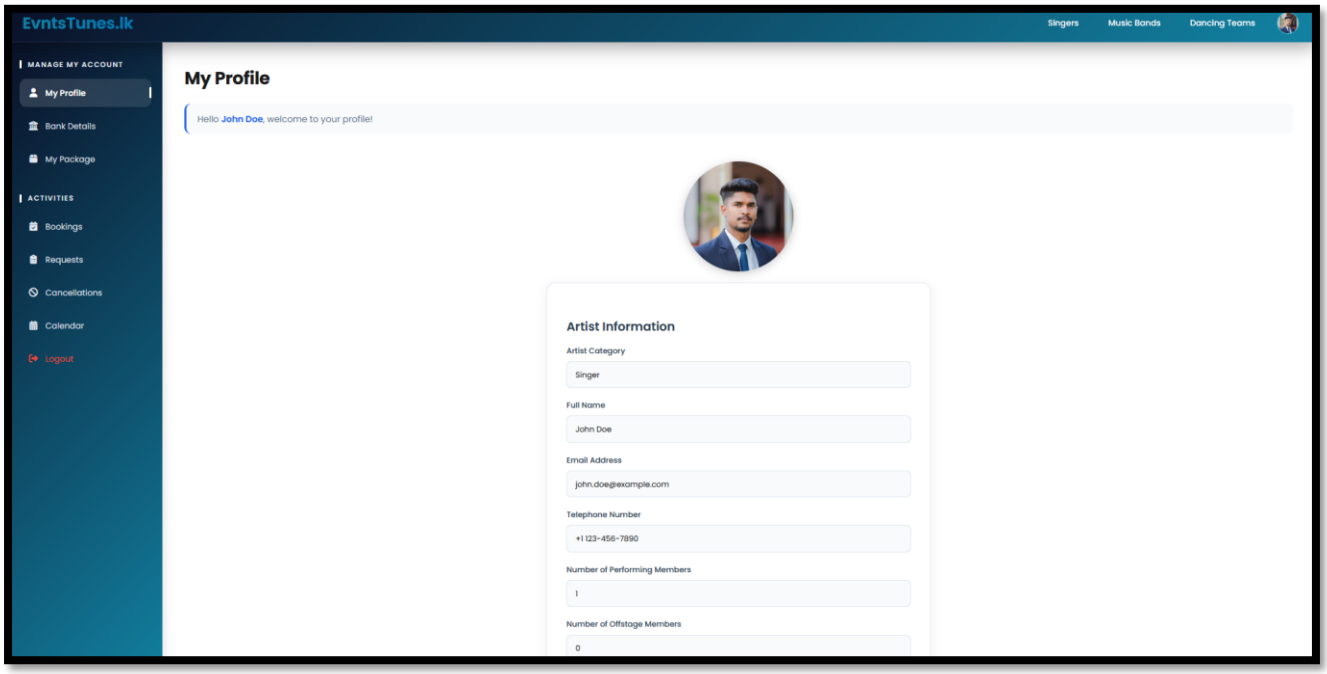

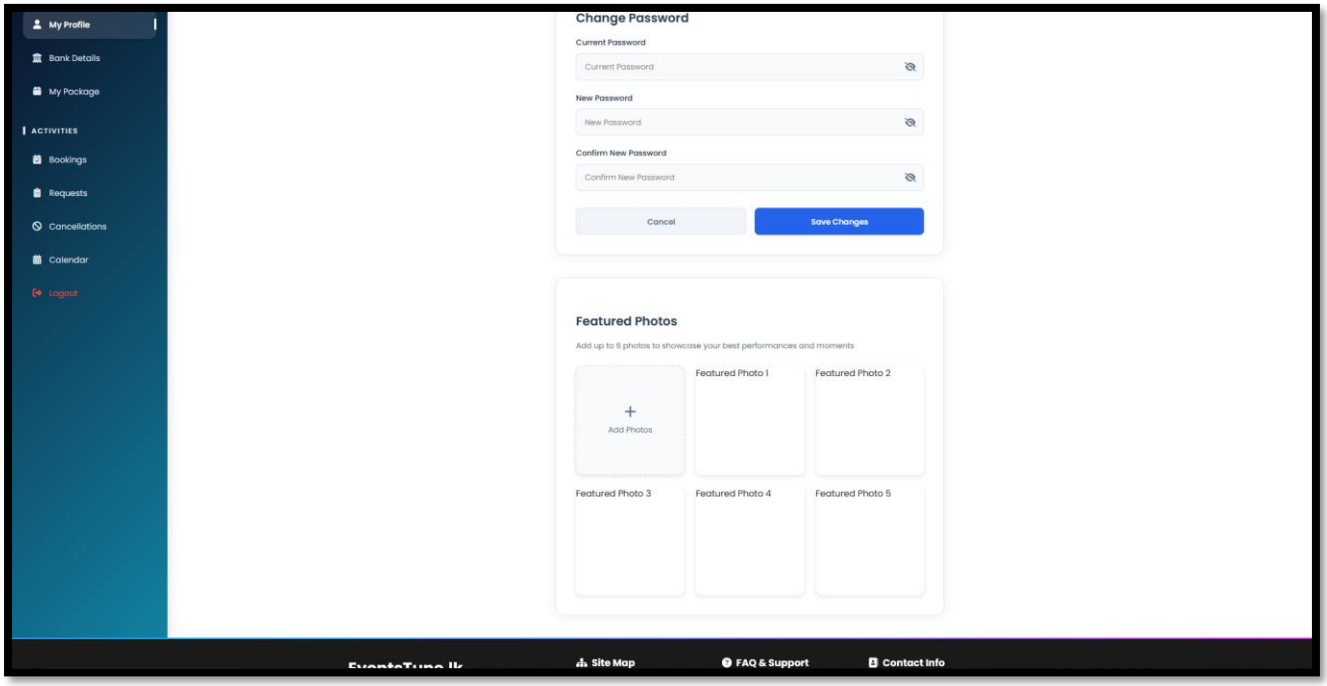

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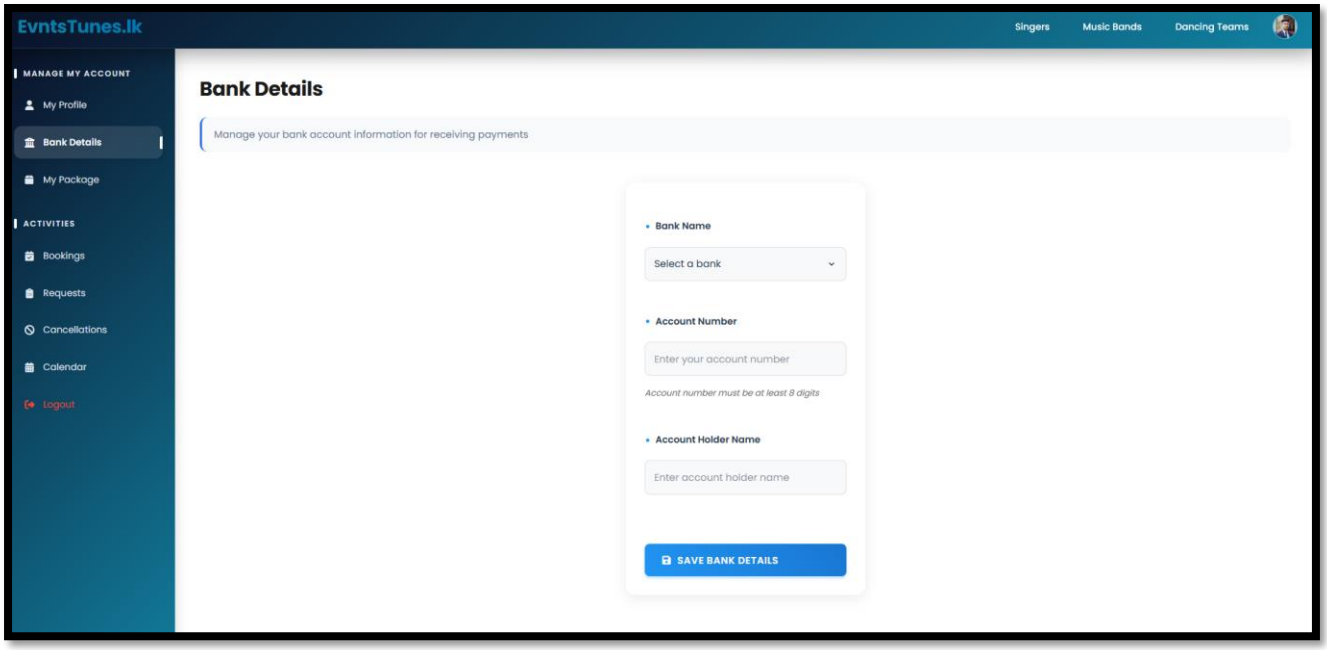
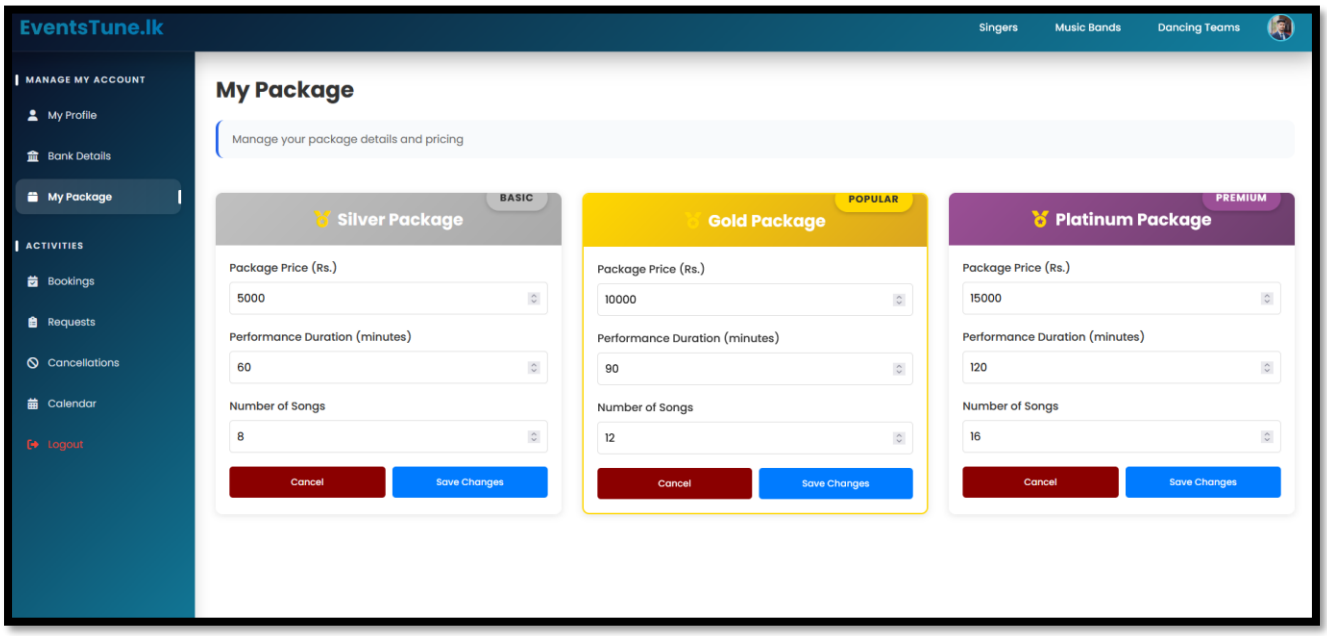
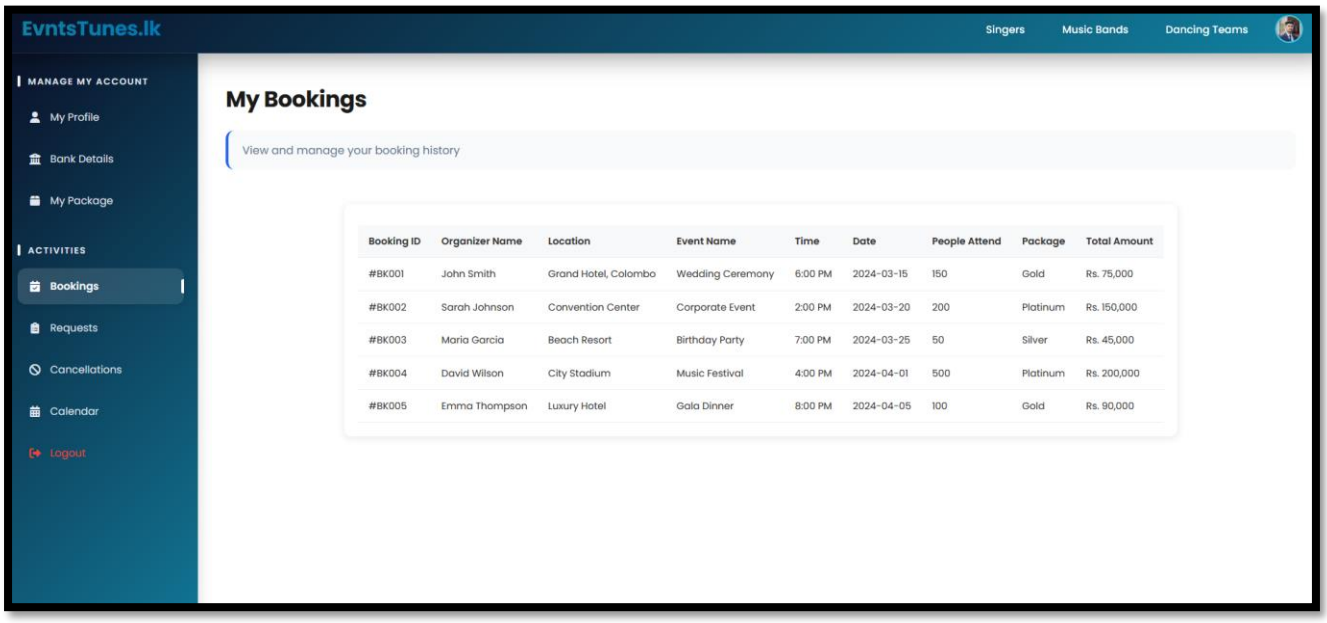


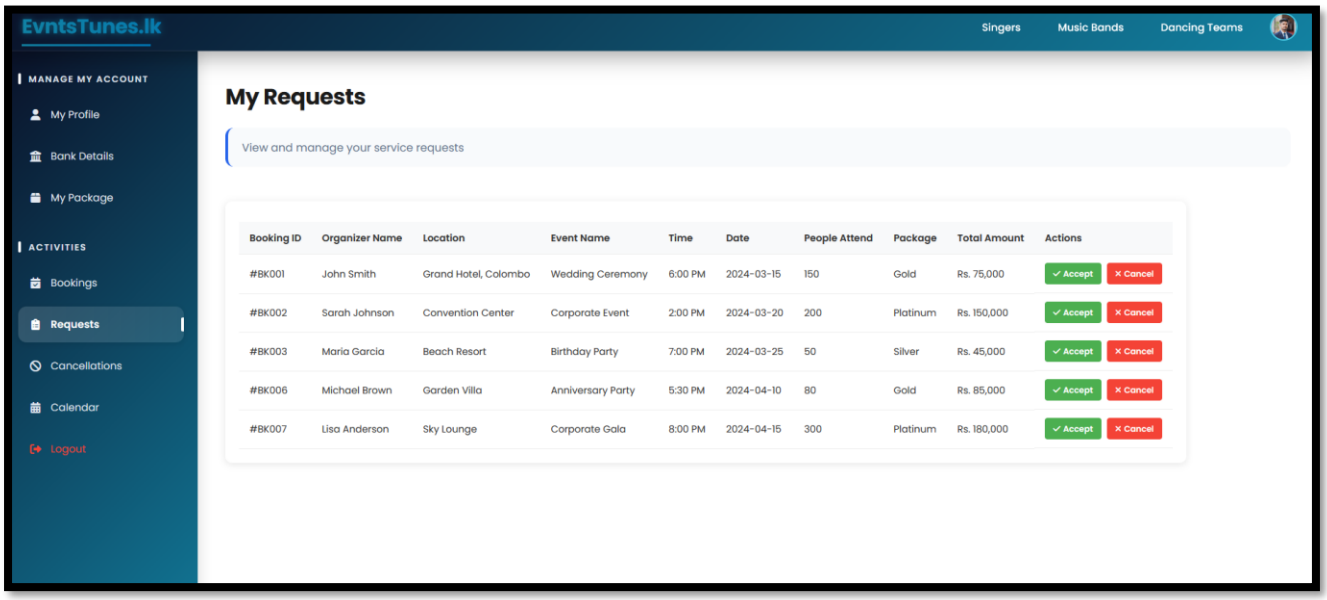
Artist Package Page



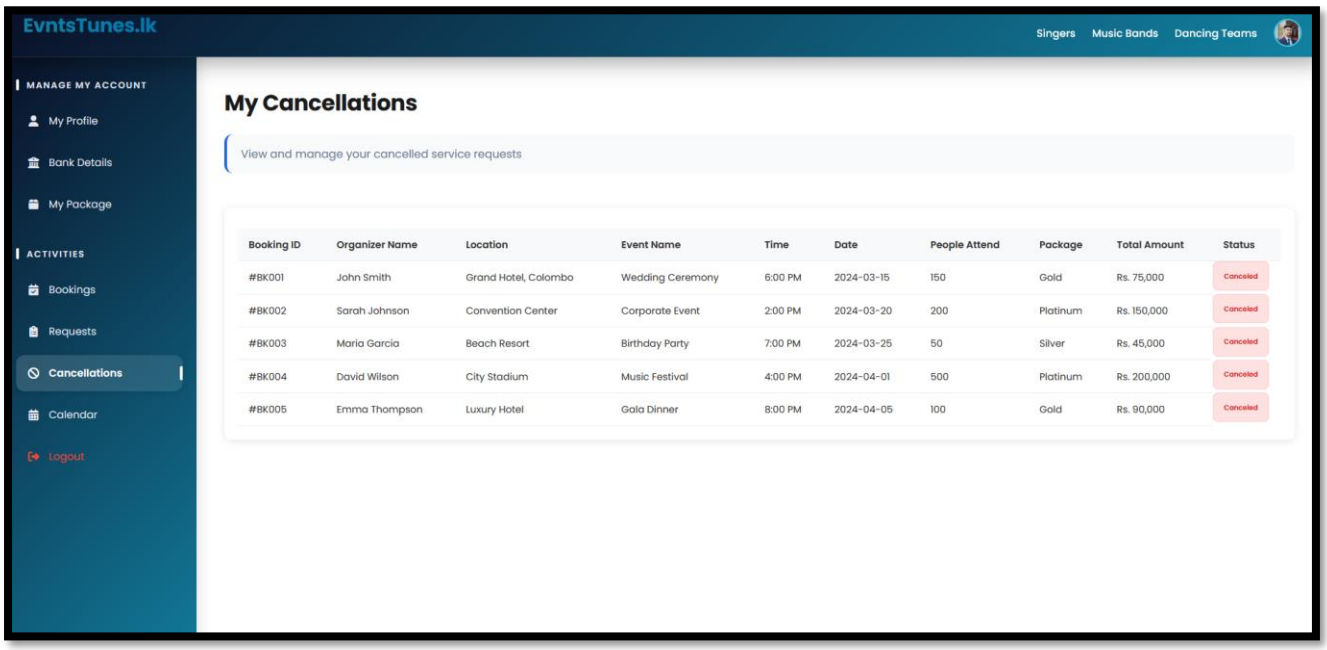
Artist Bookings Page



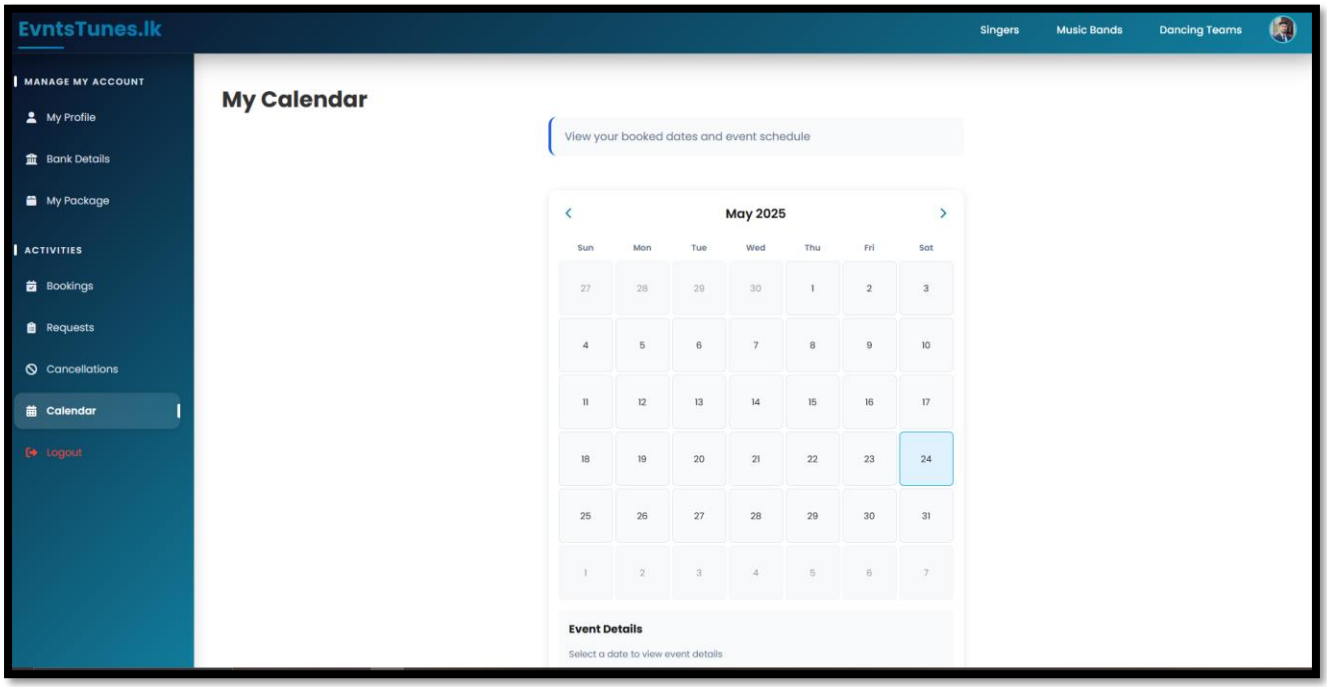
Artist Requests Page



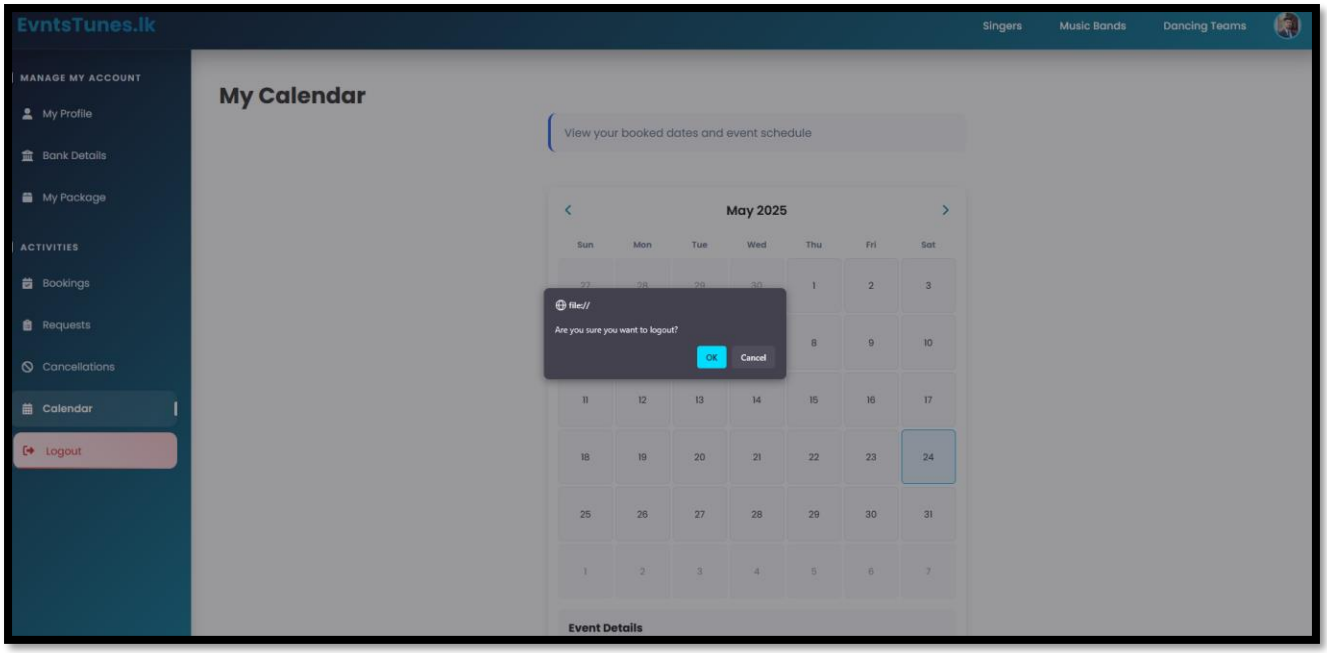
Artist Cancellations Page



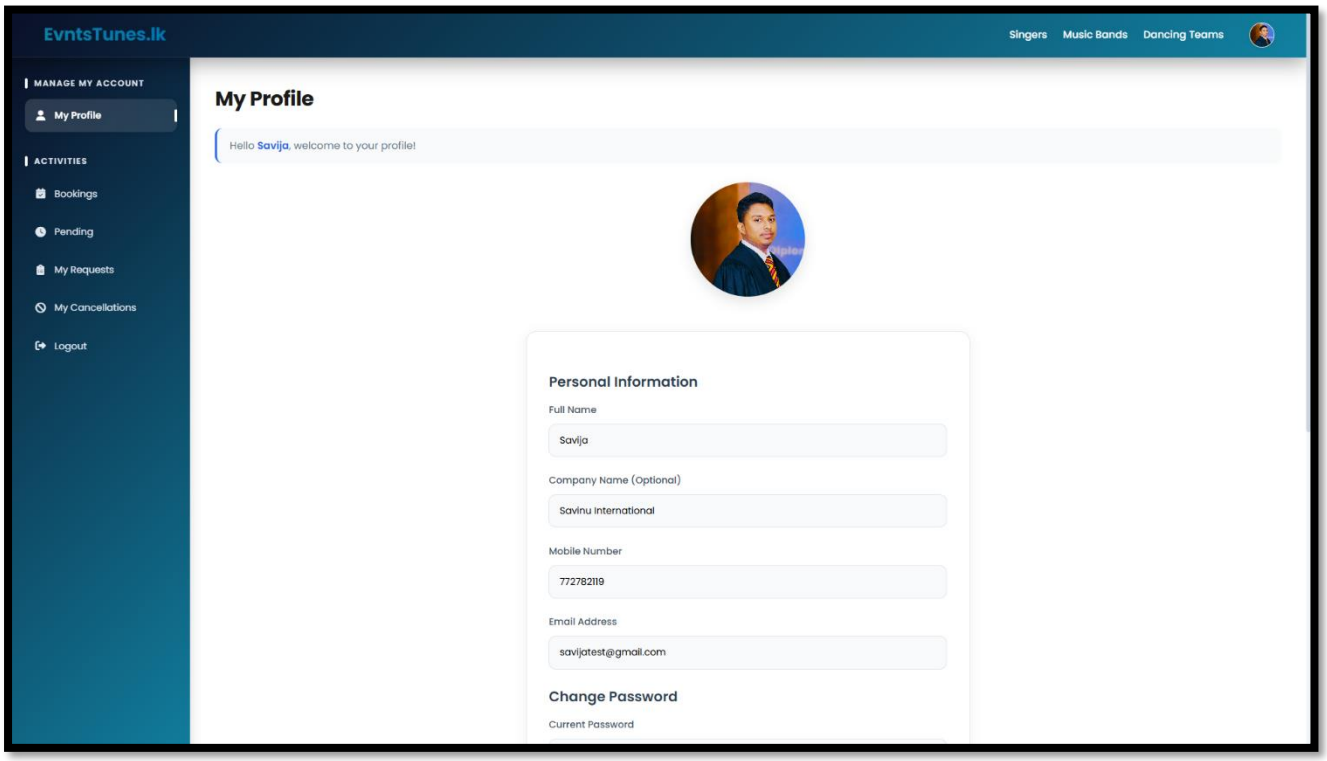
Artist Calendar Page



Artist Logout



Organizer Profile Page



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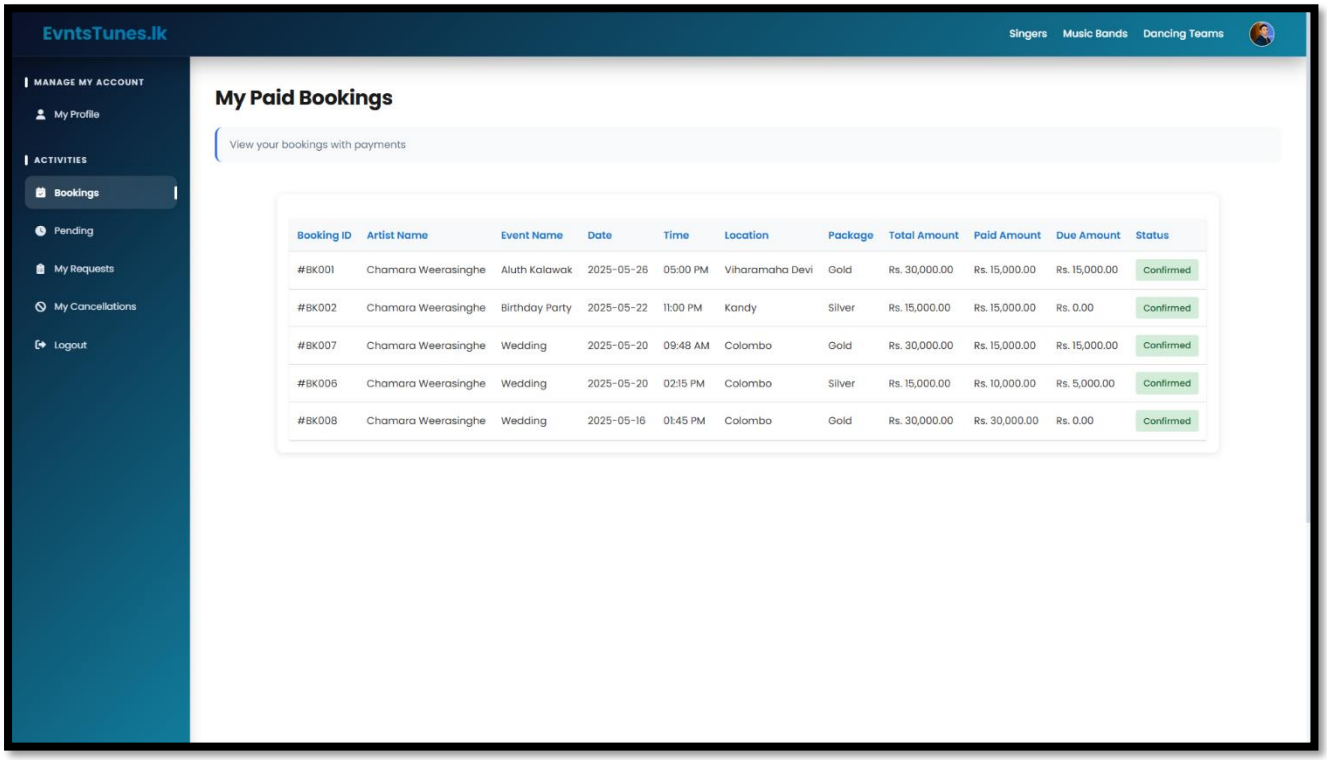

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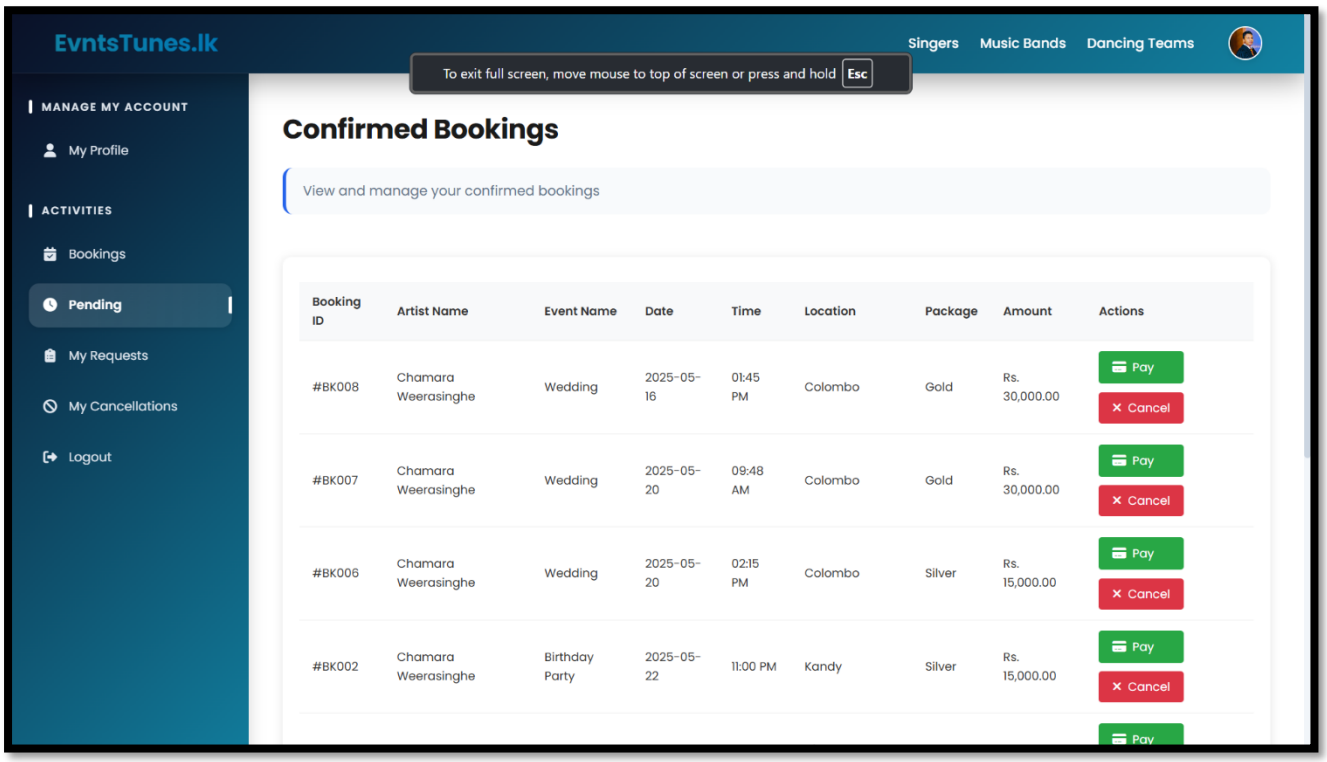

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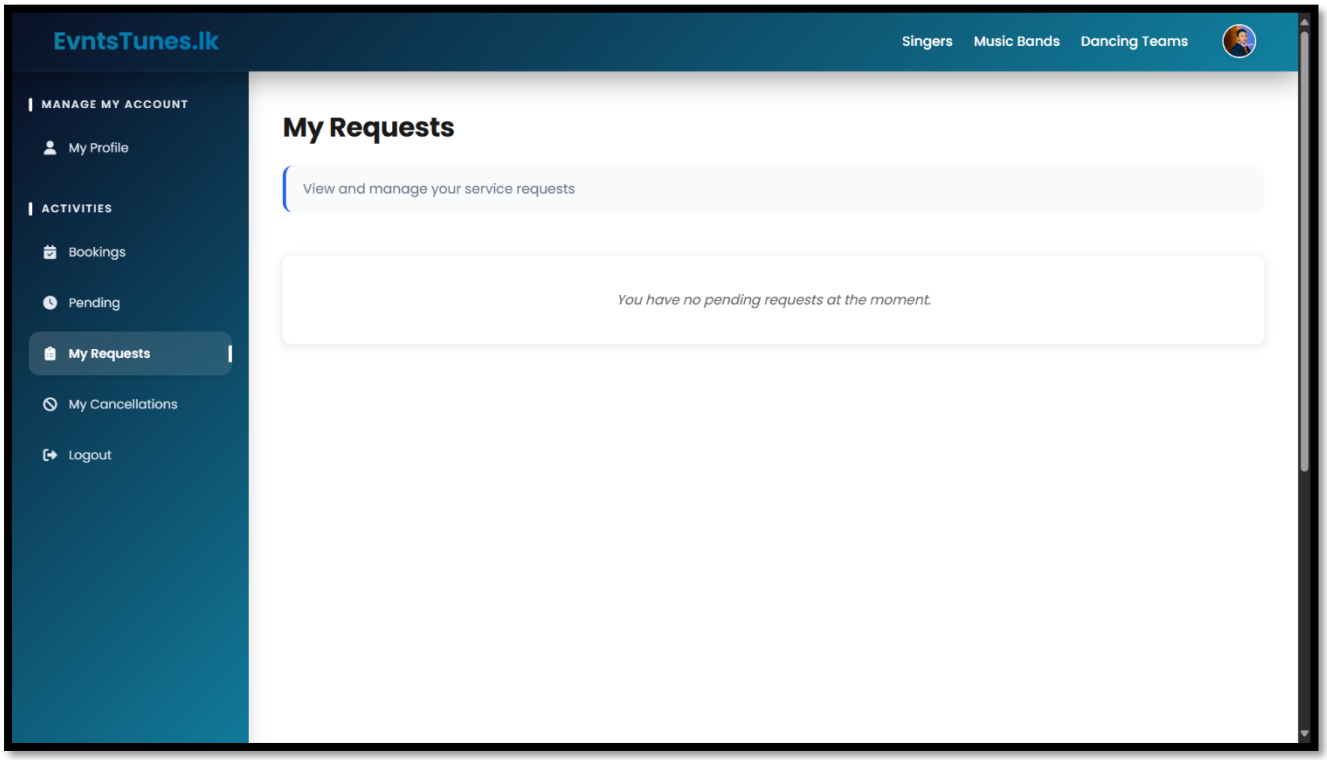

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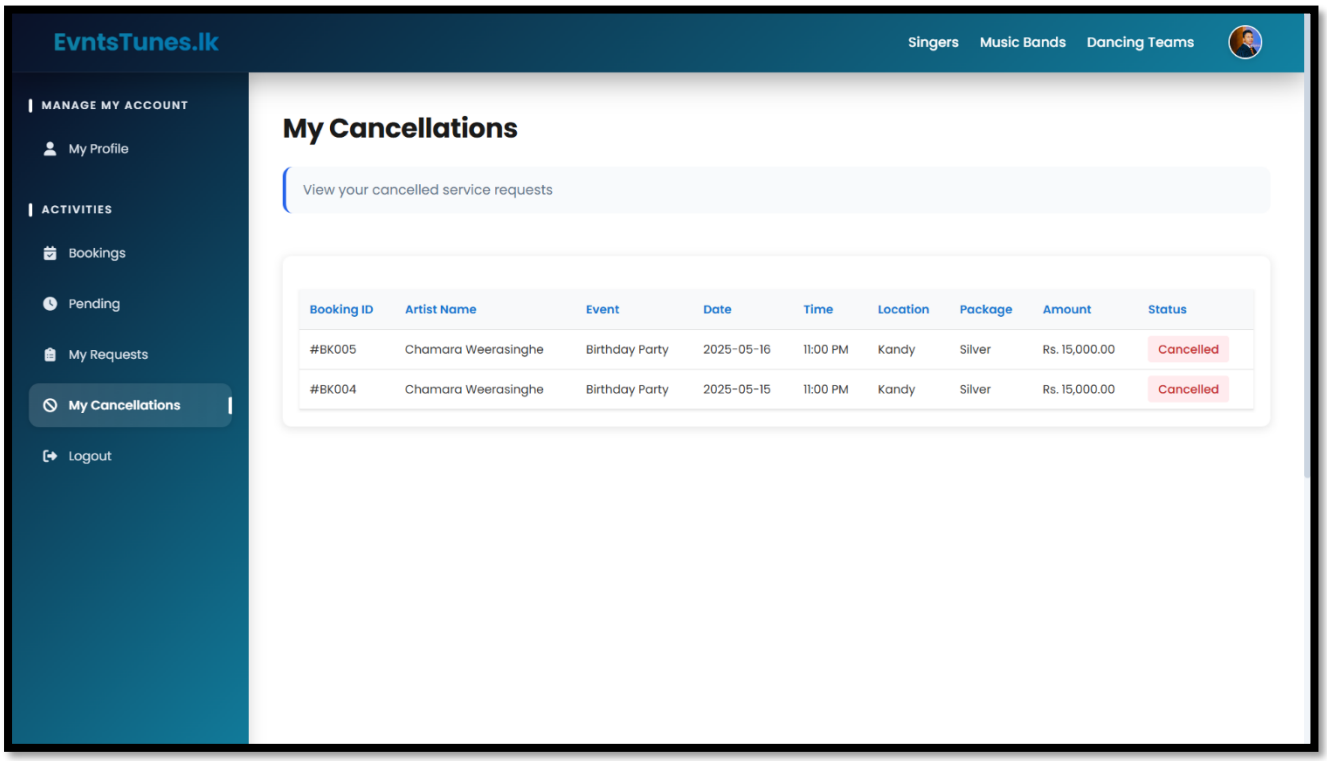
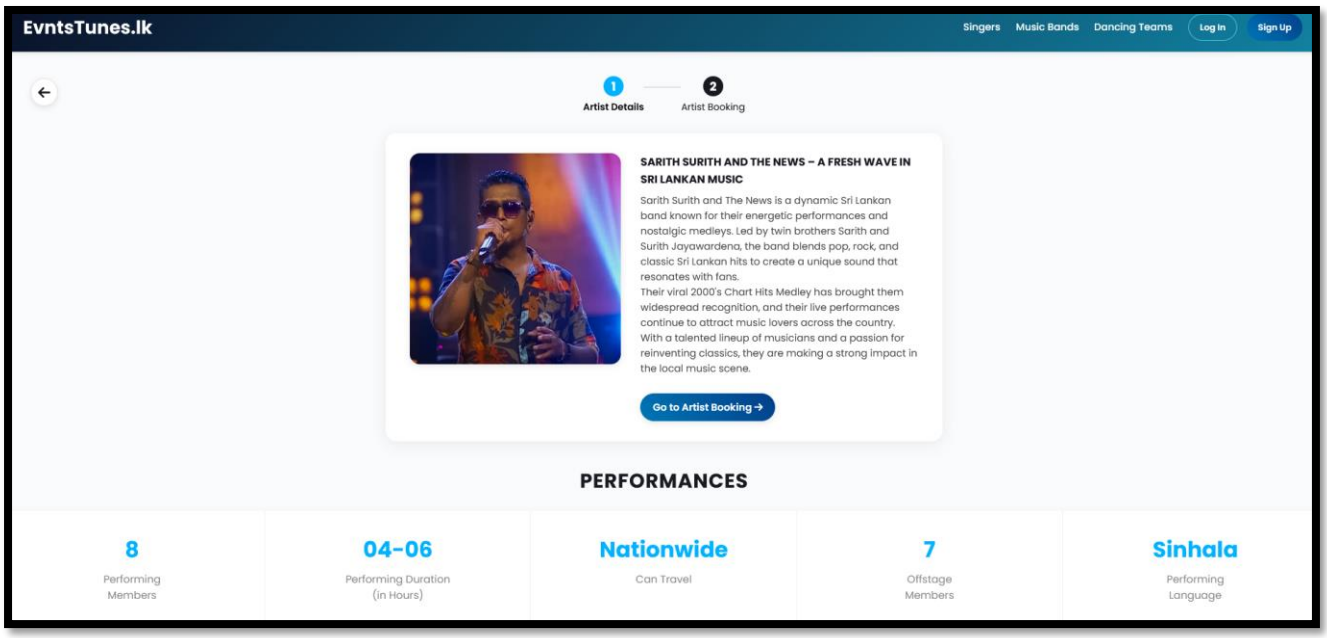
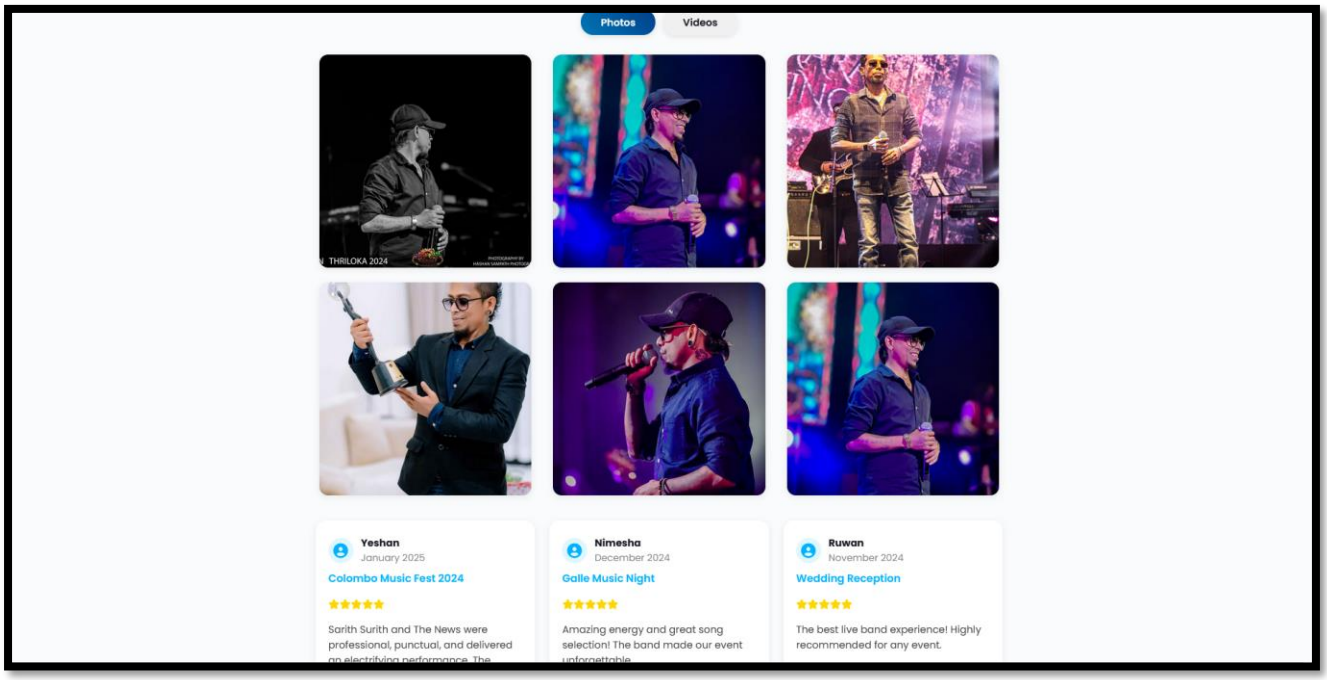
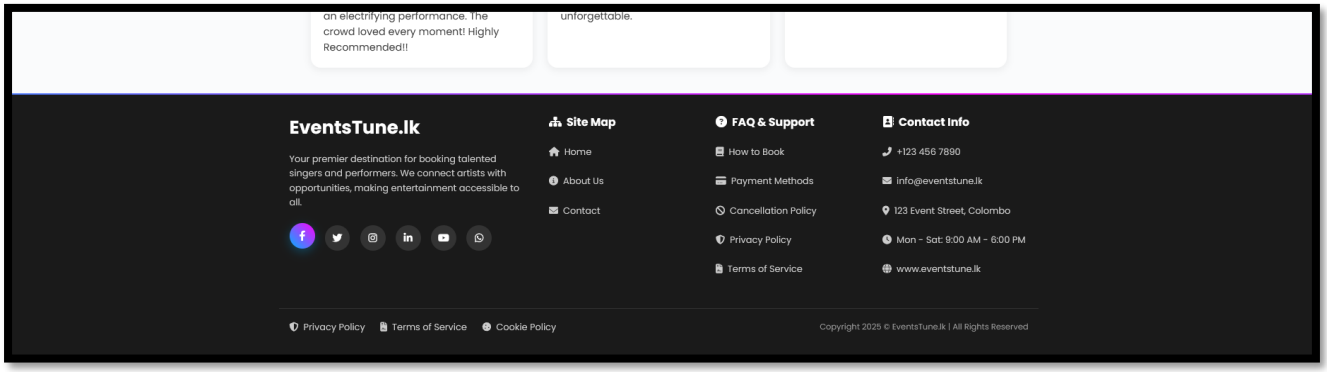


Artist Details page







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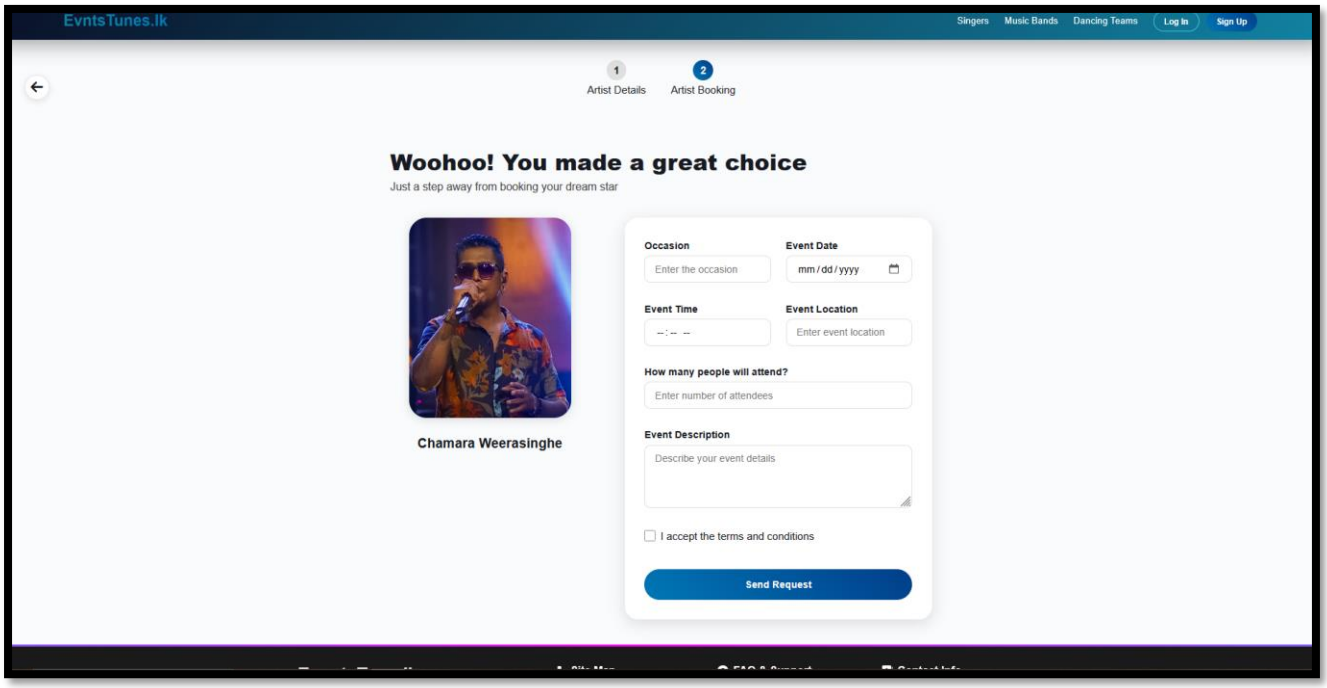

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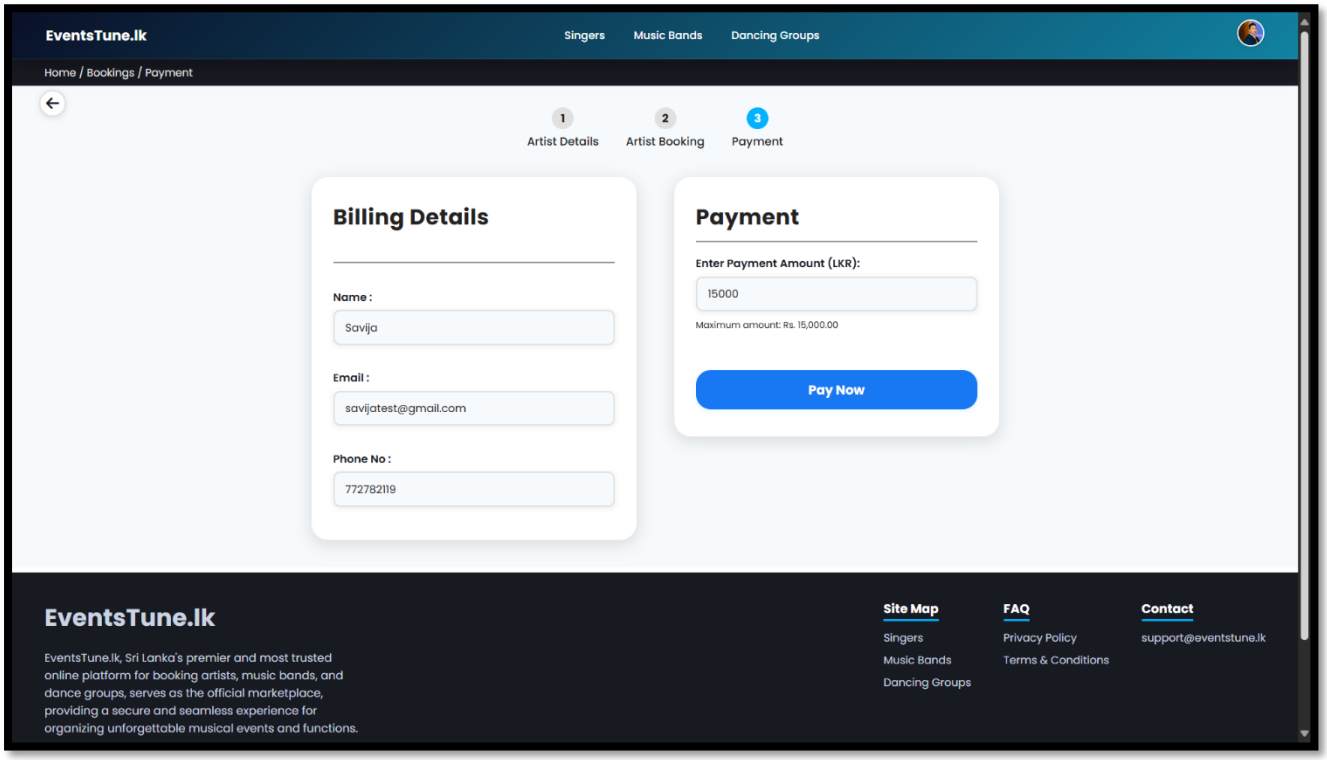

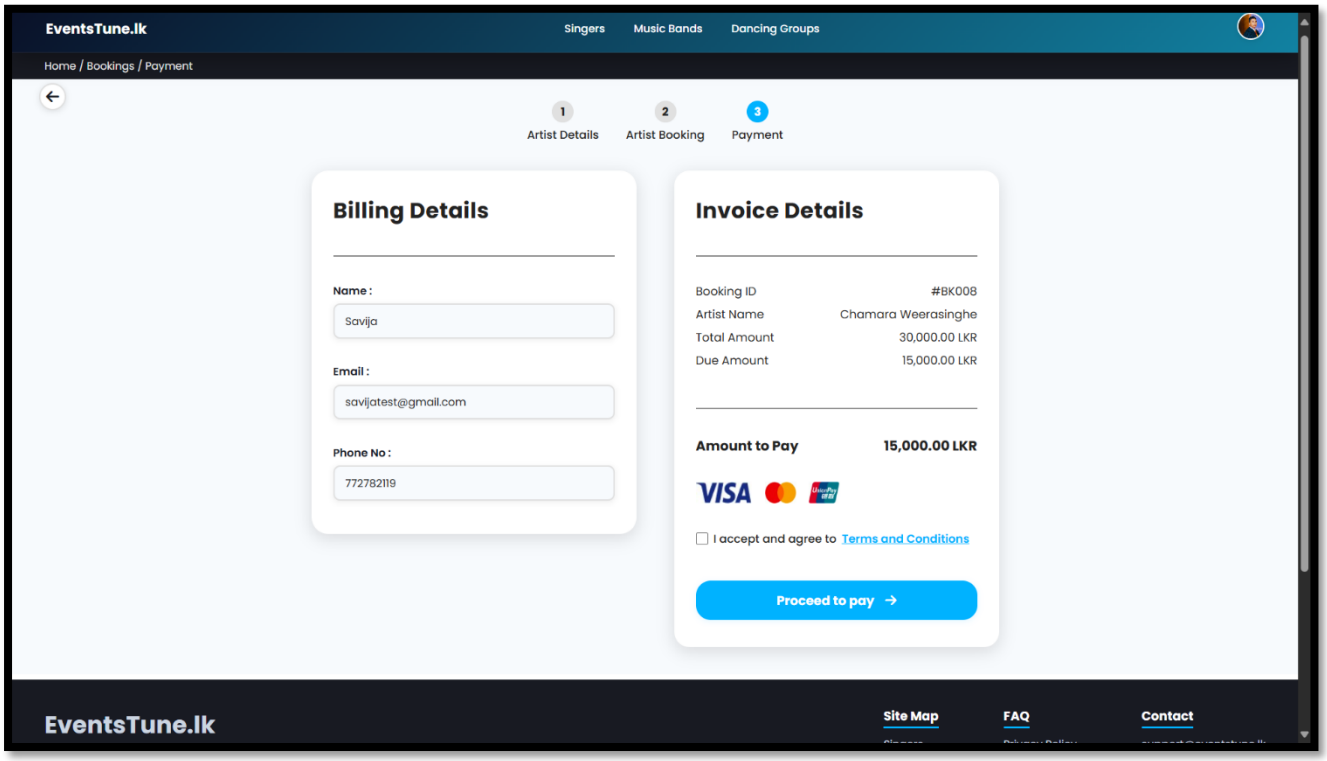

Chapter 05

5. Conclusion

The EventsTunes.lk address the growing need of a user-friendly online platform for seamless artists, bands, and dance groups booking in a competitive market. We have used user-centric design by leveraging modern technologies. This platform offers a comprehensive solution to streamline event booking, planning, and management processes. The design of the interfaces done by Figma and the use case diagrams, class diagrams, and ER diagrams were designed by draw.io tool. This proposed website will enable the users to reduce problems in event management and carry out the booking processes efficiently and effectively.

References

List and articles, books, lecture notes, websites or other documents used to obtain information to carryout succeed your project.

- Cardinality in ER Diagram | DBMS

  https://www.gatevidyalay.com/cardinality-in-er-diagram/

- Entity-Relationship Diagram Symbols and Notation

  https://www.lucidchart.com/pages/ER-diagram-symbols-and-meaning

Thank You!