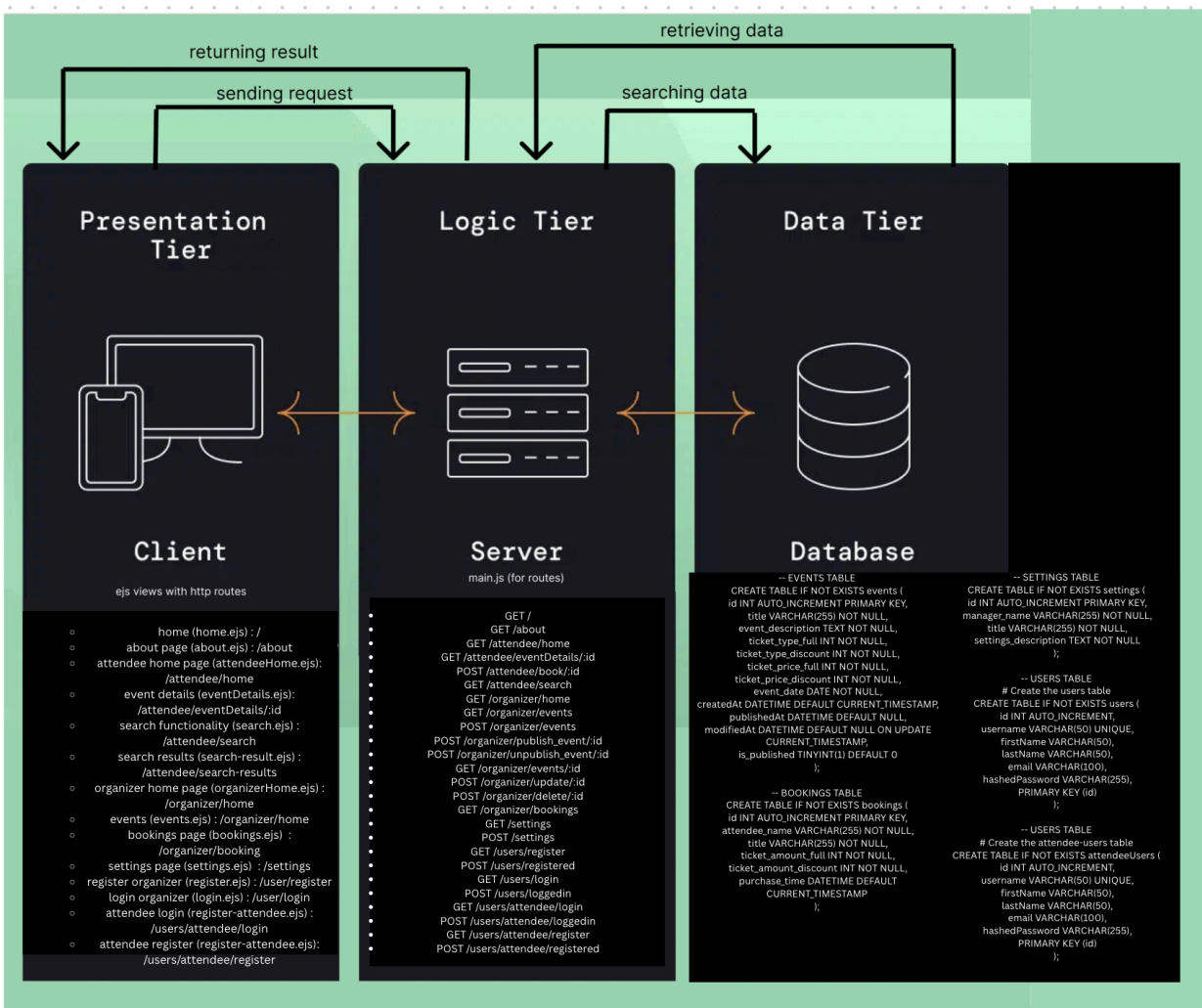


## Outline

I have built a platform that organizers can use to post fitness classes and attendees can use to book said classes. The organizer can change the website settings and can also publish and unpublish classes. They can also see who has booked classes. The attendees can see published classes and can book classes. The number of available tickets decreases as tickets are booked. There are individual logins and registrations for organizers and attendees. There is also a simple about page and a way for people to search published classes.

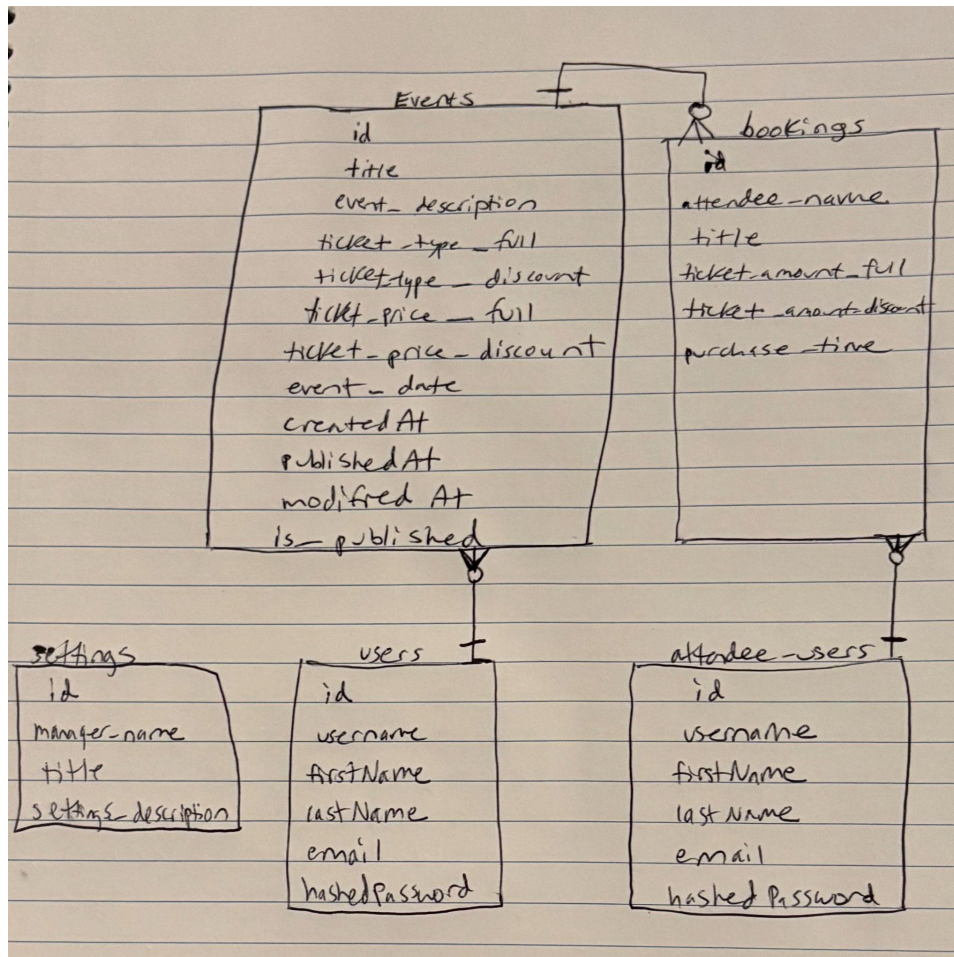
## Architecture



The application uses a three-tier architecture. Users interact with the system through a web browser, which sends HTTP requests to a Node.js application built with the Express framework. The application tier handles routing, validation, authentication, and renders dynamic pages using EJS templates. Data is stored and retrieved from a MySQL relational database. The application communicates with the database using SQL queries to manage users, events, bookings, and application settings.

## Data Model

The system uses a relational MySQL database. The users table stores registered user information and authentication details. The events table stores information about published and unpublished events, including ticket availability and dates. The bookings table records ticket purchases made by attendees. The settings table stores application-wide configuration such as organiser details and homepage text. Each table uses a primary key.



## User Functionality

# Home Page

[Organizer](#)[Attendee](#)

## Login

[Login Organizer](#)[Login Attendee](#)

## Register

[Register Organizer](#)[Register Attendee](#)

## About

[About Us](#)

Users can go to the first home page and see their options. You can register as an organizer or an attendee. You can also login as an organizer or an attendee. There is also a simple about us page where users can learn more about the platform. There are also two home pages, one for organizers and one for attendees. You have to be registered and logged in to see both of those

pages.

# Organizer Home Page

Emma

This is a HIIT workout company

Create New Event

[See Bookings](#)

[Back to Home](#)

[Settings](#)

The organizer home pages lists the name of the organizer and the description of the company. These can be changed in the settings.

## Site Settings

Name

Title

Description

Submit

[Back to Organizer Home](#)

You can also see bookings from this page for events you created.

## Bookings

[Back to Organizer Home](#)  
[Back to Home](#)

<div>Event: Workout</div> <div>Attendee Name: Emma</div> <div>Full Price Tickets Purchased: 1</div> <div>Discount Price Tickets Purchased: 1</div> <div>booked at:</div> <div>Sat Dec 13 2025 16:43:35 GMT+0000 (Greenwich Mean Time)</div>
<div>Event: Workout</div> <div>Attendee Name: Emma</div> <div>Full Price Tickets Purchased: 1</div> <div>Discount Price Tickets Purchased: 1</div> <div>booked at:</div> <div>Tue Dec 09 2025 18:33:16 GMT+0000 (Greenwich Mean Time)</div>
<div>Event: Workout</div> <div>Attendee Name: Emma</div> <div>Full Price Tickets Purchased: 1</div> <div>Discount Price Tickets Purchased: 1</div> <div>booked at:</div> <div>Tue Dec 09 2025 18:30:42 GMT+0000 (Greenwich Mean Time)</div>

### Published

<div>Workout</div> <div>description:</div> <div>This is a workout class</div> <div>amount of full price tickets:</div> <div>9</div> <div>full price:</div> <div>\$10</div> <div>amount of discount price tickets:</div> <div>9</div> <div>discount price:</div> <div>\$10</div> <div>event date:</div> <div>Sun Oct 10 1999 00:00:00 GMT+0100 (British Summer Time)</div> <div>created: Thu Dec 11 2025 17:40:26 GMT+0000 (Greenwich Mean Time)</div> <div>published:</div> <div>modified: Sat Dec 13 2025 16:43:35 GMT+0000 (Greenwich Mean Time)</div> <div>Attendee Page</div> <div>EditUnpublishDelete</div>
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### Drafts


The page will also show which events you have published and unpublished and you have the option to edit, unpublish, publish or delete an event. You can also see the attendee page of your

events. You can also create new events.

## Organizer Create/Edit Event

Class Title

Class Description

Date  
 

Amount of Full Price Tickets:

Price of Full Price Tickets:

Amount of Discount Price Tickets:

Price of Discount Price Tickets:

Event Status:

[Submit](#)

[Back to Organizer Home](#)

You can decide to publish these upon making them or just save them as a draft to publish later.

The attendee page allows you to see published events.

## Attendee Events

### HIIT

This is a HIIT workout company

[Back to Home](#)

#### Workout

number of full price tickets left:

9

number of discount price tickets left:

9

event date:

Sun Oct 10 1999 00:00:00 GMT+0100 (British Summer Time)

[More Info](#)

You can see the amount of tickets left for both full price and discount, along with the time the event is. If you click on more info, it will take you to more information about the event and you

can book tickets.

## Attendee Page

### Workout

This is a workout class

Title

Workout

Date

Sun Oct 10 1999 00:00:00 GMT+0100 (British Summer Time)

Your Name

Price: \$10

Select number of full price tickets

Price: \$10

Select number of discount price tickets

Book

[Attendee Home](#)  
[Home](#)

- ✓ select
- 1 ticket
- 2 tickets
- 3 tickets
- 4 tickets
- 5 tickets
- 6 tickets
- 7 tickets
- 8 tickets
- 9 tickets

The amount of tickets will decrease as people book tickets.

### AI Declaration

This project was loosely based around another project that I completed but using sqlite. I used AI to understand the syntax differences between mysql and sqlite but I made the changes to the database systems myself. I also used it for some minor debugging when things did not work and I could not understand why. In most cases, I had just typed something incorrectly that chatGPT caught or I had incorrectly written out a route. AI was not used to complete any of the major portions of this project or to completely write code for me. As previously stated, it was mostly used for debugging and understanding issues that I could not understand.