Information System for Organizers in Myanmar Judo Federation

Seint Seint Zaw, Nay Chi Linn Lat(2)
Student, 5th Year, B.C.Sc.
University of Computer Studies, Hinthada

Supervised By
Daw Khin San Wai
Department of Information Technology Supporting and Maintenance
University of Computer Studies, Hinthada

Abstract. The Information System for Organizers in Myanmar Judo Federation is a web-based platform developed to support the operations and communication of the Myanmar Judo Federation. The target users of this system include Judo fans, athletes, federation members, and the general public. With the increasing popularity of Judo across the country, especially among the youth, there is a growing need for a centralized, reliable, and efficient system to manage news, event information, historical content, and user registrations. This system is intended to provide timely access to information such as upcoming competitions, athlete profiles, and Judo history in Myanmar. In addition, it supports spectator registration for official Judo events, allowing users to sign up easily through the website. This helps the Federation organize events more effectively and promotes better engagement with the public. The system is very helpful for users who want to stay updated with Myanmar Judo activities and for the administrators who manage event logistics and user data. As digital platforms play an increasingly important role in all sectors, this system will enhance visibility, participation, and transparency within the Myanmar Judo community.

Keywords: secure booking and payment processing, dynamic price calculations and admin controls for managing content.

INTRODUCTION

The Myanmar Judo Federation has seen increased engagement and participation in recent years, highlighting the need for a more efficient and organized approach to managing federation activities. As spectators are increasing interested in Judo, traditional paper-based processes for event registration, attendance tracking, and information sharing have become insufficient to meet the evolving needs of athletes, spectators, and administrators. Designed with scalability and user-centric features in mind, the Information System for Organizers in Myanmar Judo Federation enhances administrative efficiency while offering athletes and the public a seamless, transparent, and accessible way to engage with the sport.

PROBLEM

Traditional methods of managing events, registrations, and attendance in sports federations are often inefficient and error-prone. These challenges hinder effective coordination and limit user engagement. The Myanmar Judo Federation requires a modern, digital solution to streamline operations, ensure data accuracy, and provide timely access to event information. This system addresses these needs by offering an organized, user-friendly platform for both administrators and participants.

Accepted Date: 30.8.2025
www.ucsh.edu.mm

APPROACH

This system operates with two primary roles: **Admin** and **User**, each with distinct processes and responsibilities. On the **user side**, the workflow begins with **event registration**, where participants are required to provide personal information such as seating area, seat number, and event date. The system validates all inputs to ensure accuracy and completeness; if any detail is incorrect or missing, users are prompted to correct and resubmit their information. Upon successful registration, the system automatically generates a unique **QR code** for the user, which can be downloaded and later used for verification and attendance purposes. Once this process is complete, the user's interaction with the system concludes until the day of the event.

On the **admin side**, the process begins with a **secure login**. If invalid credentials are entered, the system immediately denies access and redirects back to the login screen. When valid credentials are provided, the admin is granted full access to system functionalities. These include the ability to **view and manage registrant lists**, **monitor and record attendance**, and **configure event dates and schedules** to ensure smooth coordination of activities. After completing these administrative tasks, the admin logs out, thereby securely ending the session. This dual-role structure ensures that both participants and organizers can efficiently fulfill their respective responsibilities, while maintaining system integrity, accuracy of information, and smooth event execution.

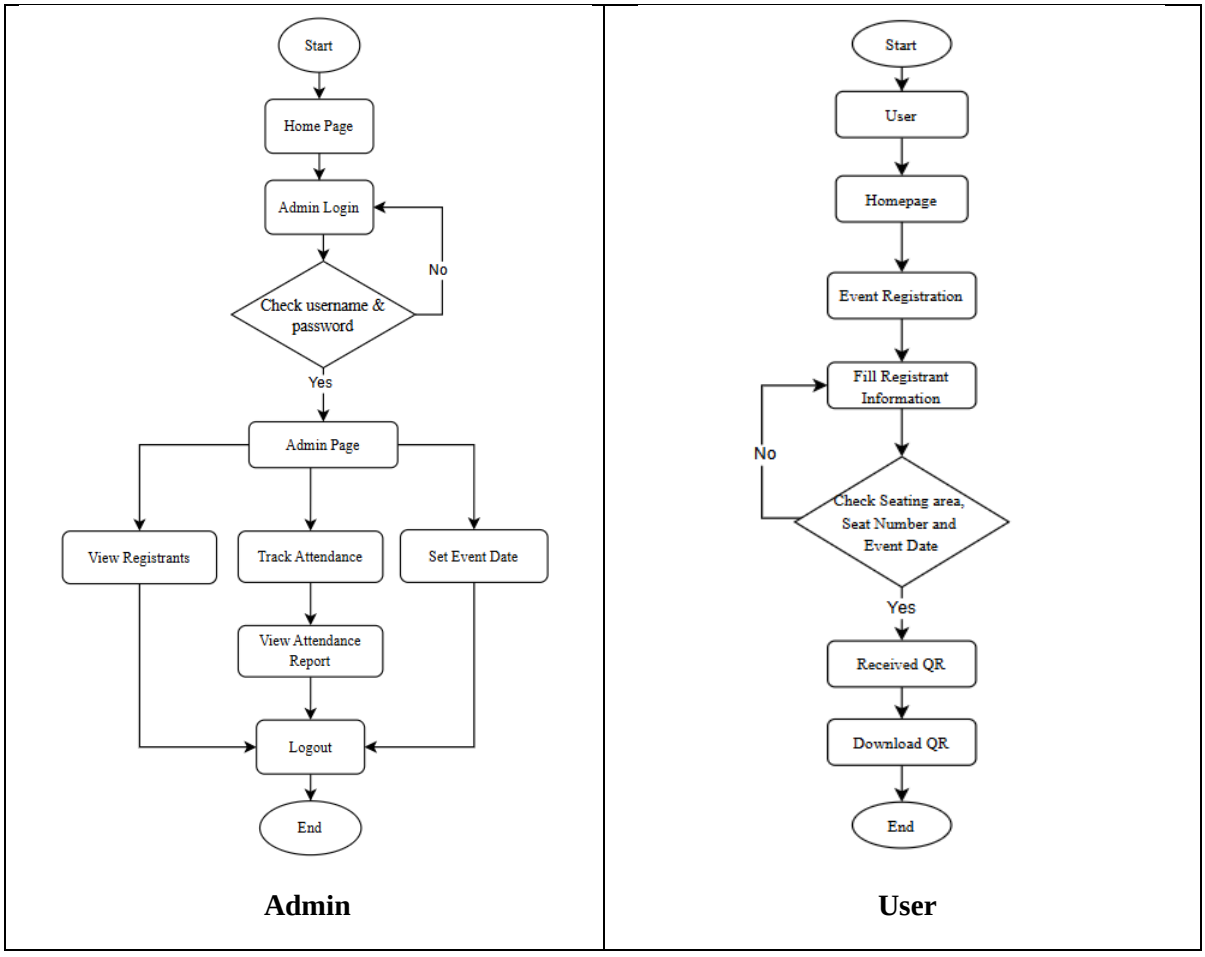

Figure 1: System Flow Diagram

Accepted Date: 30.8.2025
www.ucsh.edu.mm

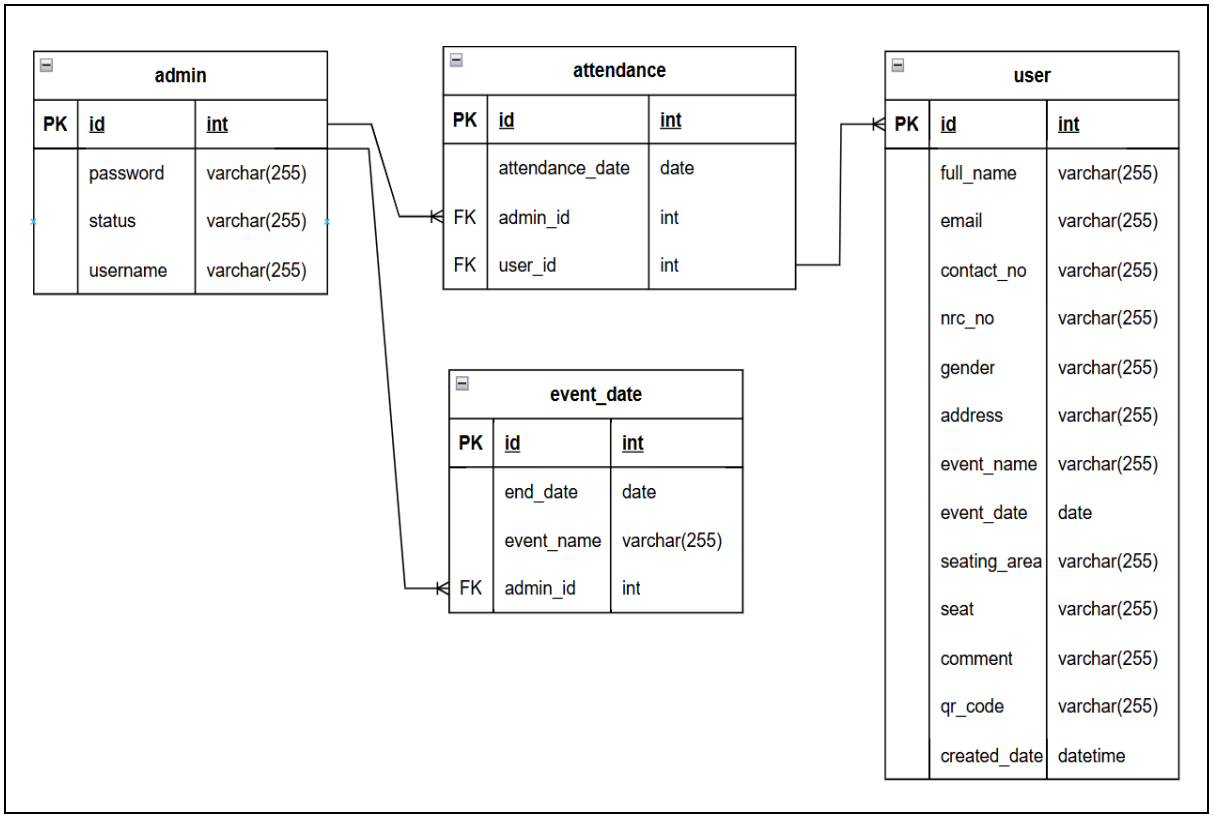

Figure 2: Database Design

An Entity Relationship Diagram uses data modeling techniques that can help define business processes and serve as the foundation for a relational database. An ERD attribute can be denoted as a primary key, which identifies a unique attribute, or a foreign key, which can be assigned to multiple attributes. A cardinality notation can then define the attributes of the relationship between the entities. In the database, there are five data tables: admin, attendance, event date and user. The figure 2 shows ER Diagram that describes all the data tables and their relationship of the database.

RESULTS

Each page of the Information System for Organizers in Myanmar Judo Federation is designed with clarity and accessibility in mind, using a clean layout and Bootstrap framework. The system provides a seamless experience for both admins and event participants. Without having an account, visitors can register for upcoming Judo events, fill out necessary information, and receive a QR code for event entry. This ensures fast and efficient access for all participants. Registered users can view their registration details, event dates, and seating information, and download their QR codes with ease. The system enhances the registration process by eliminating the need for manual paperwork and long queues. Admins can securely log in to manage event dates, track attendance, and view a list of registrants. The dashboard provides a centralized environment for managing event operations efficiently. This system serves as a centralized digital platform that streamlines event management, improves participant experience, and supports real-time access to event data. It enables the Myanmar Judo Federation to organize, monitor, and execute events more effectively from any internet-connected device.

Accepted Date: 30.8.2025
www.ucsh.edu.mm

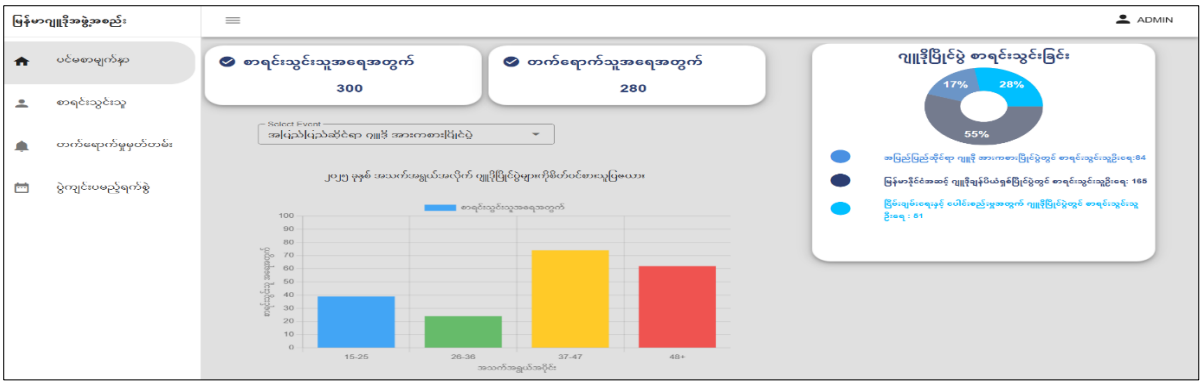

Figure 3(a): Implementation of this system

In figure 3(a), bar chart displays each age range by event. Pie chart shows registration range.

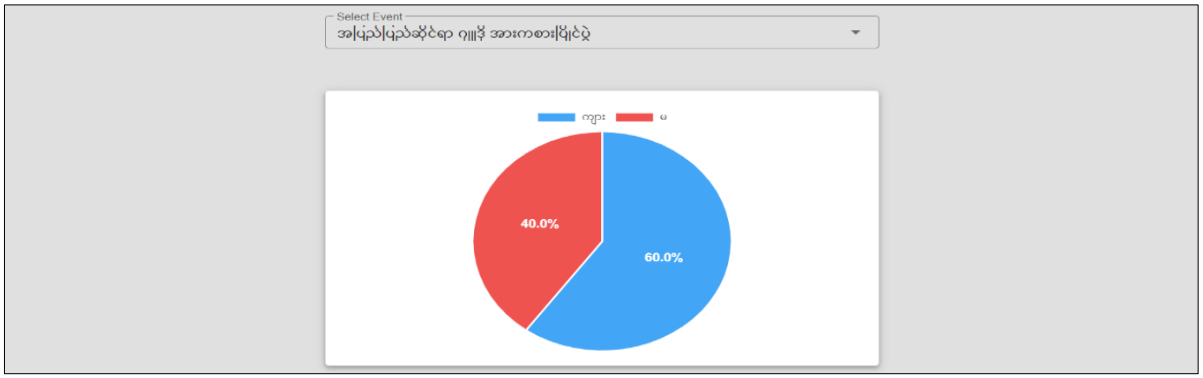

Figure 3(b): Implementation of this system

In figure 3(b), Pie chart shows gender range by each event.

CONCLUSION

The Information System for Organizers in Myanmar Judo Federation provides a comprehensive digital solution that streamlines event management and attendance tracking. It can also generate and view the attendance report. It enhances administrative efficiency while delivering a seamless experience for users through QR-based registration and real-time event updates. By replacing manual processes, the system improves service delivery, supports better data management, and offers strong potential for future development within the sports management sector.

REFERENCES

[1] Kishori Sharan, Beginning Java 8 Fundamentals, Apress (Springer Nature), 2014.
[2] K. Siva Prasad Reddy and Sai Upadhyayula, Beginning Spring Boot 3, Apress (Springer Nature), 2023.
[3] Tom Bulter and Kevin Yank, MySQL Novice to Ninja, 6th Edition, URL: https://books.google.com, 2024.
[4] Ei Maung (Web Developer & Author), URL: https://www.eimaung.com
[5] Ministry of Information, URL: https://www.moi.gov.mm
[6] W3SchoolsOnlineWebTutorials, JavaScript, URL: https://www.w3shools.com.js. 2024.
[7] Wikipedia Contributors, URL: https://www.wikipedia.org, 2024.

Accepted Date: 30.8.2025
www.ucsh.edu.mm