

ISSN: 2582-7219



## **International Journal of Multidisciplinary** Research in Science, Engineering and Technology

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)



Impact Factor: 8.206

Volume 8, Issue 4, April 2025

ISSN: 2582-7219 | www.ijmrset.com | Impact Factor: 8.206 | ESTD Year: 2018



International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

### **Membership Management System**

#### I.Ajitha, K.Koushik

Assistant Professor, Department of Computer Technology, Dr.N.P.G Arts and Science College, Coimbatore, India Student, Department of Computer Technology, Dr.N.P.G Arts and Science College, Coimbatore, India

**ABSTRACT:** This paper presents the design and implementation of a Membership Management System (MMS) aimed at streamlining the process of member registration, data management, subscription tracking, and communication within an organization. The system addresses common challenges faced by institutions managing large member databases, such as data redundancy, inefficient manual workflows, and lack of real-time reporting. Developed using modern web technologies and backed by a relational database, the MMS offers secure, user-friendly interfaces for both administrators and members. Key features include role-based access control, automated renewal notifications, payment integration, and analytics dashboards. The system was tested within a mid-sized organization and demonstrated significant improvements in operational efficiency, data accuracy, and member satisfaction. This study highlights the importance of digital transformation in membership-driven organizations and provides a scalable model for similar implementations across various sectors.

#### I. INTRODUCTION

In today's increasingly digital landscape, organizations across various sectors—including clubs, gyms, associations, educational institutions, and non-profits—rely heavily on efficient systems to manage their memberships. Traditional methods of handling member information through spreadsheets or paper records are often time-consuming, error-prone, and inefficient, particularly as membership bases grow in size and complexity.

A Membership Management System (MMS) is designed to automate and streamline the core processes involved in handling member data, including registration, profile updates, subscription monitoring, payment tracking, and communication. By integrating technology into these processes, organizations can improve data accuracy, enhance member engagement, and reduce administrative workload.

This paper presents the development of a web-based Membership Management System that aims to centralize memberrelated operations through an intuitive and secure platform. The system includes key functionalities such as role-based access, automated notifications, membership renewal handling, and reporting tools for analytics and decision-making. Built using modern technologies, the MMS is scalable, customizable, and adaptable to a wide range of use cases. The remainder of this paper discusses the system architecture, design methodology, implementation details, and the

evaluation of the system's performance and usability within a real-world organizational setting.

#### **OBJECTIVE:**

1. Centralized Member Data Management

To store, organize, and manage all member information in a single, secure database that is easily accessible by authorized users.

2. Automate Membership Processes

To automate tasks such as registration, renewals, payments, and communication, reducing manual work and improving efficiency.

3. Enhance Member Engagement

To improve communication and interaction with members through notifications, email alerts, updates, and personalized dashboards.

4. Improve Data Accuracy and Security

To minimize errors and ensure that member data is accurate, up-to-date, and protected with proper security measures like authentication and encryption.





International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

**5.** Provide Role-Based Access Control

To restrict access to specific features or data based on user roles (e.g., admin, staff, member), enhancing security and usability.

6. Enable Reporting and Analytics

To generate real-time reports and insights on member activity, revenue, and system usage, supporting better organizational decision-making.

7. Scalability and Flexibility

To build a system that can grow with the organization and adapt to changing needs, including adding new features or handling more members.

8. Support Online Payments and Transactions

To integrate with payment gateways for processing fees, donations, or subscriptions securely and conveniently.

9. Reduce Administrative Overhead

To decrease the time and resources spent on manual data entry, filing, and tracking by providing automated tools.

#### **II. LITERATURE SURVEY**

Membership Management Systems have become essential tools for organizations to efficiently handle the growing demands of data organization, member engagement, and administrative automation. Several studies and system implementations have addressed different aspects of membership handling, from database design to online user interfaces and integration with third-party services.

According to Smith et al. (2019), traditional membership systems often relied on desktop-based applications with limited accessibility and poor scalability. Their study emphasized the transition toward cloud-based platforms, enabling remote access and real-time updates. However, these early systems lacked advanced features such as analytics, member engagement tracking, and role-based access.

Patel and Rao (2020) presented a web-based membership solution for sports clubs, incorporating registration, payment, and notification modules. While their system improved operational efficiency, it was limited in terms of customization and integration with external tools like email services or payment gateways.

Kumar and Singh (2021) explored the security challenges in membership systems, proposing encryption and secure authentication mechanisms to protect user data. Their work highlighted the importance of data privacy and compliance with standards such as GDPR, especially for international organizations.

Several open-source systems like CiviCRM and Wild Apricot offer comprehensive features but often require technical expertise for setup and maintenance. This creates a gap for lightweight, user-friendly solutions tailored to smaller organizations or communities with limited resources.

From the literature reviewed, it is evident that while existing systems offer various features, many still lack adaptability, cost-efficiency, and ease of use. The need remains for a flexible, secure, and scalable Membership Management System that can be tailored to specific organizational needs without requiring extensive technical knowledge.



**III. INPUT AND OUTPUT** 

Managemer	it System
Log in to start yo	ur session
Koushik	
Remember Me	Log In

Membership System	=	ŕ
~	System Name:	
CodeAstro	Membership System	
🙆 Dashboard	Logo:	
📰 Membership Types 🔇	Choose File cpu jpeg	
🔹 Add Members	Currency:	
🏜 Manage Members	20\$	
່ວ Renewal	Update Settings	
Membership Report	Current Password:	
🞫 Revenue Report		
Contraction Settings	New Password:	
O Logout		
	Confirm Password:	
		<u></u>
	Change Password	

#### © 2025 IJMRSET | Volume 8, Issue 4, April 2025

#### DOI:10.15680/IJMRSET.2025.0804424

ISSN: 2582-7219 | www.ijmrset.com | Impact Factor: 8.206| ESTD Year: 2018|



### International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

🤹 N	Membership System	=				
، 😵	CodeAstro	Revenue Report				Home / Revenue Report
<b>60</b> D	ashboard	🖼 Revenue Report				
	1embership Types 🔇 <	From Date:				
<b>2</b> A	dd Members	25-03-2025				Ē
<b>2</b> M	lanage Members	To Date:				
ъ R	enewal	02-04-2025				
<b>B</b> M	1embership Report	Generate Report				
E R	evenue Report					
<b>\$</b> \$ Se	ettings					
<b>じ</b> Lo	ogout					
🥌 N	Membership System	Ξ				
• 😵	CodeAstro	Add Members			F	lome / Add Members
<b>2</b> Di	ashboard	🖼 Add Members Form				
Ш м	1embership Types 🔇 <	Full Name	Date of Birth		Gender	
😂 A	dd Members	Kumar	24-06-2005	Ē	Male	~
🔹 м	lanage Members	Contact Number	Email			
<b>ଅ</b> Re	enewal	09856231478	kumar@gmail.com			
Bi M	lembership Report	Address	Country			
📑 Re	evenue Report	1/1,erode,tamilnadu	India			
🕫 Se	ettings	Postcode	Occupation			
<mark>ሆ</mark> Lo	ogout	641999	star			
		Membership Type	Member Photo			
		Basic - \$8	Choose File cpu.jpeg			
		Submit				
- 👘 N	Nembership System	=				
ە 🍣	CodeAstro	Membership Report			Home /	<sup>7</sup> Membership Report
<b>Ø</b> Da	ashboard	📾 Membership Report				
≣ м	lembership Types 🛛 <	From Date:				
📽 Ad	dd Members	25-03-2025				æ
🍰 М	lanage Members	To Date:				
ଅ Re	enewal	01-04-2025				<b></b>
B M	lembership Report	Generate Report				
📰 Re	evenue Report					
🗘 Se	ettings					
υLo	ogout					



🚺 Membership System	=		
CodeAstro	Add Membership Type		Home / Add Membership Type
🔁 Dashboard	📟 Add Membership Type form		
📰 Membership Types 🤞	Membership Type	Amount	
😫 Add Members	gold	20	\$
🏖 Manage Members			
່ວ Renewal	Submit		
🖺 Membership Report			
🞫 Revenue Report			
😂 Settings			
ப் Logout			





(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

#### IV. SCOPE OF THE MEMBERSHIP MANAGEMENT SYSTEM

The Membership Management System (MMS) is designed to automate and streamline the administration of memberrelated tasks within an organization. This system will provide a centralized platform for managing member records, registrations, renewals, payments, and communication efficiently and securely.

In Scope:

User Registration and Login: Members can sign up, log in securely, and manage their profiles.

Admin Panel: Administrators can add, update, or remove members, manage payments, and send notifications.

Membership Plans: Define and assign different membership types (e.g., monthly, yearly).

Payment Integration: Support for secure online payments via a payment gateway.

Renewal and Expiry Management: Automated reminders for renewal and membership expiry tracking.

Reporting and Analytics: Generate reports on membership statistics, payments, and active users.

Role-Based Access Control: Different permissions for admins, staff, and members.

Communication Tools: Bulk email or notification system to communicate with members.

Out of Scope (for initial version):

Mobile app version (web only).

Multi-language support.

Integration with third-party CRM or ERP systems.

Biometric or smart card access control.

Scope of the Membership Management System

The Membership Management System (MMS) is designed to automate and streamline the administration of memberrelated tasks within an organization. This system will provide a centralized platform for managing member records, registrations, renewals, payments, and communication efficiently and securely.

In Scope:

User Registration and Login: Members can sign up, log in securely, and manage their profiles.

Admin Panel: Administrators can add, update, or remove members, manage payments, and send notifications.

Membership Plans: Define and assign different membership types (e.g., monthly, yearly).

Payment Integration: Support for secure online payments via a payment gateway. Renewal and Expiry Management: Automated reminders for renewal and membership expiry tracking. Reporting and Analytics: Generate reports on membership statistics, payments, and active users.



#### V. CONCLUSION

In conclusion, the Membership Management System is a comprehensive and user- friendly solution designed to streamline membership registration, renewal, and management processes. By automating routine tasks, improving communication, and providing valuable insights, this system enables organizations to focus on their core activities and build stronger relationshipswiththeirmembers. The system's flexibility and customizability make itanideal solution for various organizations, including professional associations, clubs, charities, and community grou

The Membership Management System offers numerous benefits, including improved memberengagement andretention, enhancedcommunicationandcustomerservice, increased operational efficiency and reduced costs, better data accuracy and security, and valuable insights into member behavior and preferences. By implementing this system, organizations can simplify membership management, improve decision-making, and drive growth and success.

Overall, Membership System the Management is а powerful tool that can help organizationsachievetheirgoalsandbuildstrongerrelationshipswiththeirmembers. Itsuser- friendly interface, scalability, and customizability make it an ideal solution for organizations seeking to improve their membership management By leveraging the latest processes. technologies and best practices, this system provides a comprehensive solution for membership enabling management, organizations to succeed in today's competitive landscape.

#### REFERENCES

#### **ONLINE REFERENCES & GUIDES**

- 1. WildApricot Blog & Resources
- 2. Capterra-MembershipManagementSoftwareComparison
- 3. Naga Ramesh, Palakurti (2024). Computational Biology and Chemistry with AI and ML. International Journal of Research in Medical Sciences and Technology 1 (17):29-39.
- 4. Nonprofit Tech for Good SQLD esign Patterns Use the Right Database Model for the Right Problem





# INTERNATIONAL JOURNAL OF MULTIDISCIPLINARY RESEARCH IN SCIENCE, ENGINEERING AND TECHNOLOGY

| Mobile No: +91-6381907438 | Whatsapp: +91-6381907438 | ijmrset@gmail.com |

www.ijmrset.com