Gym Fees Management System

The Gym Fees Management System is a web-based application designed to manage the operations of a gym, including member registration, training program selection, fee collection, and alert notifications. Built using JavaScript, HTML, and CSS, this system provides a comprehensive platform for gym administrators to efficiently manage member data, track fee payments, and ensure timely alerts for overdue payments. The primary goal of this project is to streamline gym management processes and enhance the member experience through effective use of modern web technologies.

**Key Features**

1. **Member Registration**

- **NIC Number Registration**: Members are required to register with their National Identity Card (NIC) number. This ensures a unique identifier for each member, simplifying the process of tracking member information and payment history.

**[ Members can’t register themselves**

**Nic is not the primary key we include unique user ID for registration]**

- **User Profile Management**: Members can view and update their personal information, including contact details and selected training programs.

**(Members can’t update their selected training)**

1. **Training Program Options**

– **Cardio Training**: Members can opt for cardio training programs, which may include activities such as **running, cycling, and aerobics**.

The system tracks member participation and preferences.

- **Weight Training**: Members can choose weight training programs, including exercises **like lifting, bodybuilding, and strength training**.

The system manages program enrollments and schedules.

**3. Fee Management**

**- Initial Registration Fee**: Upon registration, members are required to pay an initial registration fee. The system tracks this payment and ensures that only registered members can access gym facilities and programs.

**- Monthly Fee Payment**: Members must pay monthly fees to maintain their gym membership. The system tracks these payments and ensures timely collection. Members can view their payment history and upcoming due dates.

**(not for Annual membership users)**

**4. Alerts and Notifications**

**- Overdue Payment Alerts**: If a member fails to pay their monthly fees on time, the system generates an alert to notify the gym administrator. This feature ensures that overdue payments are promptly addressed and members are reminded to settle their dues.

**- Membership Renewal Reminders**: The system can send reminders to members about upcoming fee due dates and membership renewals to ensure continuous access to gym facilities.

**5. Reports**

– **Member Report**: Provides a detailed overview of all registered members, including their training program preferences and payment status.

**- Payment Report**: Tracks all fee payments, including initial registration fees and monthly fees. This report helps administrators monitor financial transactions and identify overdue payments.

**- Training Program Report**: Lists member enrollments in different training programs, providing insights into program popularity and member participation.

**User Roles**

**1. Administrator**

- Manage member registrations (add, update, remove).

(Update-Fees payment / initial fee)

- Oversee fee collection and manage overdue alerts.

- Generate and view reports on member activities and payments

(- Select and enroll in training programs.)

Admin or User cannot add new training program to user profile

**2. Member**

- Register and manage their profile.

(Members can’t register them self without admin permission)

- Select and enroll in training programs.

(Members can’t Select and enroll in training programs)

- Pay initial registration and monthly fees.

(only monthly fees)

- View payment history and receive alerts for overdue payments.

**Technical Overview**

The Gym Fees Management System is developed using a combination of JavaScript, HTML, and CSS. To ensure simplicity and ease of use, the system is designed to work entirely on the client side, utilizing local storage for data persistence. This approach eliminates the need for a server-side backend, making it ideal for small to medium-sized gyms.

**- JavaScript**: Manages the core functionality, including event handling, DOM manipulation, and interaction with local storage. JavaScript is used to perform all operations such as adding/removing members, tracking payments, and managing alerts.

**- HTML:** Structures the content and elements of the web pages.

**- CSS**: Enhances the appearance and layout, providing a consistent and user-friendly design across different devices and screen sizes.

**- Local Storage**: Utilized for data persistence, local storage ensures that all data (members, payments, training programs) is saved directly in the user's browser. This enables the application to retain data between sessions without requiring a server-side database.

**Conclusion**

The Gym Fees Management System offers a robust solution for managing the diverse needs of a gym. By integrating essential features such as member registration, training program management, and fee collection, it simplifies the day-to-day operations for administrators while providing a seamless experience for members. The addition of comprehensive reporting capabilities enhances the system's utility by providing valuable insights into member activities, program participation, and financial transactions. This project represents a significant step towards digitizing gym management and improving the overall efficiency and accessibility of gym services.