

Sporting Club Management System

Project Overview

The **Sporting Club Management System** is a web-based application designed to manage users, events, memberships, and inquiries for a sporting club. Built using **ASP.NET Web Forms** and **MySQL**, the system provides essential functionalities to streamline club operations and enhance user experience.

Key Features

User Management

- **Sign-Up:** Allows users to register with validated credentials.
- **Login:** Authenticates users and redirects them to personalized dashboards.

Events Management

- **Event Registration:** Enables users to register for sporting events.
- **Duplicate Check:** Prevents users from registering for the same event multiple times.

Membership Management

- **Membership Registration:** Allows users to select membership plans (Standard, Premium, VIP).
- **Automatic Validity:** Calculates membership start and end dates automatically (e.g., one year from the current date).
- **Validation:** Ensures accurate associations between users and membership types.

Sports Information

- **Sports Descriptions:** Provides detailed, dynamic descriptions of sports offered at the club.
- **User Interaction:** Updates details based on the user's selection dynamically.

Contact Us

- **Inquiry Submission:** Users can send feedback or queries via a contact form.
- **Database Integration:** Messages are stored in the Contacts table for future reference.

Technologies Used

- **Backend:** ASP.NET Web Forms (C#)
- **Frontend:** HTML, CSS
- **Database:** MySQL
- **Libraries:** MySql.Data by Oracle

Database Schema

The application uses a normalized database schema to ensure data integrity and prevent redundancy. Key tables include:

1. **Users:** Stores user credentials and personal details.
2. **MembershipTypes:** Tracks membership options and pricing.
3. **UserMemberships:** Links users to their chosen memberships.
4. **Sports:** Contains details about sports offered at the club.
5. **Events:** Tracks events and their associated sports.
6. **EventRegistrations:** Manages user registrations for events.
7. **Contacts:** Stores user-submitted inquiries.

Setup Instructions

Prerequisites

1. Install **Visual Studio** with ASP.NET Web Forms support.
2. Install **MySQL** and set up a local database.
3. Install **MySQL Connector for .NET**.

Highlights

1. Dynamic Data Retrieval:

- Fetches sports descriptions dynamically from the database.

2. Validation and Security:

- Enforces strong password policies during sign-up.
- Uses parameterized queries to prevent SQL injection.

3. User Feedback:

- Provides clear success and error messages for all user actions.

4. Clean Database Design:

- Fully normalized schema ensures data integrity and avoids redundancy.

Contributors

- Salma Yasser
- Jayan Ahmed
- Zeina Ahmed