ACalendar

ACalendar is a desktop application designed for athletes and coaches to track and manage training sessions and competition events. It enables users to log in, manage their workouts and meetings, add detailed information, and get an overview of their activities over time.

Key Features

- **Login and Registration:**
  Users can log in or register with a username and password. Passwords are securely hashed using SHA256.

- **Training Management:**
  Users can add training sessions with details such as main focus, rating, weather, date, and descriptive notes.

- **Meeting (Competition Event) Management:**
  The app allows recording of meetings with location, difficulty rating, weather, date, and adding multiple competitions/events within a meeting.

- **Detailed Previews:**
  Users can view detailed information about individual trainings or meetings in separate windows.

- **Intuitive User Interface:**
  A simple and clear UI built with WPF provides easy navigation and interaction.

Application Structure

- **LoginWindow:** Handles user login and registration processes.

- **DayWindow:** Displays activities for a selected day — trainings and meetings.

- **AddEventWindow:** Window for adding a new event, either training or meeting.

- **AddCompetition:** Sub-window for adding individual competitions to a meeting.

- **Data Objects and DAO:** Responsible for saving and retrieving data about users, trainings, meetings, and competitions.

How to Use

1. Launch the application and either log in or create a new account.

2. After login, select a day to view its activities.

3. Use the button to add a new training or meeting.

4. Fill in all required fields and save the event.

5. For meetings, add competitions with their start times as needed.

Technologies and Libraries

- **.NET Framework** and **WPF** for desktop UI development.

- **SHA256 hashing** for password security.

- Custom DAO implementation for data handling.

- Required to install the following NuGet for recreating: Extended.Wpf.Toolkit, System.Data.SqlClient

Future Enhancements

- Adding functionality for editing and deleting events.

- Synchronization with third-party calendars.

- Adding functionalities for tracking more health routines such as meal plan, hydration with water during the day etc..