Evento App: Event Management System

Introduction

Evento is an event management application developed in Java. It allows users to create, view, modify, and delete their events through an intuitive and functional interface. The project relies on the CRUD model (Create, Read, Update, Delete) and uses SQLite for data management, administered via SQLiteStudio.

Application Features

1. **Homepage**
   Two main options are offered:

   o **Sign In**: Access the features as a registered user.

   o **Sign Up**: Create a new user account for first-time use.

2. **Sign Up**
   When creating an account, the user provides:

   o Name and surname,

   o A unique username,

   o A secure password.
      After validation, the information is saved in the SQLite database, and the user is redirected to the login page.

3. **Sign In**
   The user enters their username and password. A verification of the credentials is performed in the database. In case of error, a message is displayed.

4. **Event Management**
   Once logged in, the user can:

- o **View**: View a list of events displayed in an interactive table.

- o **Add**: Fill out a form with event details, which are then inserted into the database.

- o **Modify**:

  - Select an event and click the **Edit** button to open a pre-filled form.

  - Enter the necessary changes, validate, and update the data in the SQLite database.

- o **Delete**:

  - Select an event, click **Delete**, and confirm the action.

  - The event is then removed from the SQLite database.

Key Technical Points

- **SQLite Database**:

  - o Data management is handled via SQLiteStudio, a graphical tool that facilitates the configuration and maintenance of tables.

  - o CRUD operations are performed by executing SQL queries directly from the application.

- **Security**: User accounts are protected by passwords.

- **User Interface**: Designed in Java Swing, it is simple and suitable for intuitive use.

- **Reliability**: CRUD operations ensure smooth and consistent data management.

Conclusion

This project demonstrates the application of fundamental Object-Oriented Programming concepts in Java and interfacing with a database. By using SQLite and SQLiteStudio, Evento provides an effective solution for managing events while implementing structured data management.