Campus Event Management System

Overview

The Campus Event Management System is a desktop application built with Java and JavaFX. It allows students, event organizers, and administrators to manage campus events. Key features include role-based login, event creation, registration, and an approval workflow for student-created events.

Prerequisites

To run the pre-built application, you need:

- **macOS** (Apple Silicon M1/M2/M3 recommended for best performance, though it may run on Intel via Rosetta).
- **No JDK installation required** to run the standalone app (it bundles its own runtime).

Note: If you wish to compile the source code instead, you will need JDK 25 and JavaFX SDK 25.

How to Run the Application

I have packaged the application as a native macOS app bundle (.app) for ease of use.

Step 1: Locate the App

Navigate to the executable/ folder in this repository. You should see a file named **CampusEventSystem.app**.

Step 2: Clear Security Restrictions

MacOS often blocks applications that are not downloaded from the App Store or signed by an identified developer. To run this student project, you must clear the "quarantine" attribute.

1. Open your **Terminal**.
2. Type the following command: xattr -cr .
3. Drag and drop the **CampusEventSystem.app** icon from Finder into the Terminal window. This will paste the full path.
4. Press **Enter**.

Step 3: Launch

Double-click the **CampusEventSystem.app** icon. The application should launch immediately.

Alternative: Running from Source Code (IntelliJ IDEA)

If you are unable to run the standalone app, you can run the project from the source code provided in the src folder.

1. **Open Project:** Open this code folder in **IntelliJ IDEA**.
2. **Setup SDK:** Go to **File > Project Structure > Project** and select **SDK 25**.
3. **Add Library:** Go to **Libraries**, click **+**, and add your local **JavaFX SDK 25** lib folder.
4. **Configure Run:**
   o Edit Configuration for MainApp.
   o Add VM Options: --module-path "/path/to/javafx-sdk-25/lib" --add-modules javafx.controls,javafx.fxml
   o (Mac users: Add -Dprism.order=sw if graphics fail).
5. **Run:** Click the green Play button.

User Credentials (Test Data)

Use these accounts to test the different roles:

Role	Email	Password
Student	Fahad.rahman1124@gmail.com	20193878
Organizer	fahad@campus.com	pass123
Administrator	admin@campus.com	admin123

Features Implemented

- **Student:** View events, Register, Create New Event (Popup form).
- **Organizer:** View created events, Approve/Reject pending requests, Cancel active events, View registrations.
- **Admin:** View all system events, Generate reports.
- **Data Persistence:** Automatic saving/loading to event_data.xml.