HOW TO RUN - University ERP System

1. Prerequisites

- **Java Development Kit (JDK):** Version 17 or higher.
- **Build Tool:** Apache Maven.
- **Database:** MySQL Server (Version 8.0 or higher).

2. Database Setup

The application uses a dual-database architecture: university_auth_db and university_erp_db.

1. Open your MySQL client (Workbench or Command Line).
2. Locate the /database/ folder (where you saved the seed scripts).
3. Run auth_db_seed.sql: This creates the authentication schema and inserts default users.
4. Run erp_db_seed.sql: This creates the ERP schema (courses, students, settings) and applies necessary constraints.

3. Application Configuration (Critical)

The database connection settings must be configured to match your local MySQL setup.

1. **Locate the configuration file:** ERP/src/edu/univ/erp/data/DatabaseConnector.java.

Update the Password: You must manually change the password strings inside this file to **"Daksh"** to match your local MySQL root password, as requested:
Java
// ERP/src/edu/univ/erp/data/DatabaseConnector.java

// --- Auth DB Connection ---
private static final String AUTH_DB_PASSWORD = "Admin@12"; // <-- CHANGE THIS

// --- ERP DB Connection ---
private static final String ERP_DB_PASSWORD = "Admin@12"; // <-- CHANGE THIS

4. How to Build and Run

1. **Open the project folder** in your IDE (IntelliJ IDEA / Eclipse) or terminal.
2. **Build:** Run mvn clean install to download dependencies and compile the project.
3. **Run:** Execute the main class, which initializes the look and feel (FlatDarkLaf.setup()) and launches the login window:
   - **Main Class:** edu.univ.erp.Main
   - **Initial Window:** edu.univ.erp.ui.auth.LoginWindow

5. Default Login Credentials

Use these accounts to test the different roles. Passwords are set up and hashed in the database using BCrypt.

Role	Username	Password
Admin	admin1	adminpass
Instructor	inst1	instpass
Student	stu1	stupass1
Student	stu2	stupass2

6. Troubleshooting

- **"Connection Refused"** or **"Access Denied"**: Ensure MySQL is running and the password in ERP/src/edu/univ/erp/data/DatabaseConnector.java exactly matches your local database root password.
- Password or username wrong - there might be a case that causes the sql to give the updated password so the password for admin1 should be 1 or ab so change the password according to yourself later .
- **"Table 'users_auth' doesn't exist"**: Ensure you ran the SQL seed scripts from the /database/ folder in the correct order (auth_db_seed.sql first).
- **Maintenance Mode Banner**: If the red/orange banner is visible immediately upon login, log in as **admin1** and toggle **Maintenance Mode OFF** in the System Settings tab.