

# HOW TO RUN

## 1. REQUIREMENTS

- \* Java JDK 17 or JDK 21 (match your project's target)
- \* IntelliJ IDEA (Community or Ultimate)
- \* MySQL Server 8.x (with MySQL client or MySQL Workbench)
- \* mysql-connector-j-8.x.x.jar (MySQL JDBC driver)
- \* jBCrypt (or your hashing JAR)

## 2. Database Setup

The project uses two separate MySQL databases:

1. **Auth DB** – for login and roles

**Contains tables:** users\_auth,

**Used by:** authen.Connector, AuthService, Login, SetSession, etc.

2. **ERP DB** – for academic data

**Database name in code:** univ\_erp

**Contains tables :** students, instructors, courses, sections, enrollments, grades, assessment\_components, settings, notification, section\_labels

## 3. DB Connection Settings

There are two connection helper classes:

1. **For Auth DB** -> authen.Connector
2. **For ERP DB** -> erp.ERPConnector

### **3. For Backup/Restore -> erp.service.AdminService**

```
private static final String URL = "jdbc:mysql://localhost:3306/authen_db";  
private static final String USER = "root";  
private static final String PASS = "your_mysql_password";  
private static final String MYSQL_BIN  
="C:/Users/Lenovo/Downloads/mysql-9.5.0-winx64/mysql-9.5.0-winx64/bin";  
private static final String BACKUP_DIR = "C:/erp_backups";  
private static final String BACKUP_FILE = BACKUP_DIR + "/univ_erp_backup.sql";
```

## **4. Running the Application**

1. Open the project in your IDE.
2. Run the main class is ui.ERPMain: