1. Tools and Technologies

- Frontend: Java Swing for GUI.
- Backend: JDBC for database connectivity.
- Database: MySQL Community Server.
- Testing: JUnit.

2. Prerequisites

1. Java Development Kit (JDK)
   - Download and install [JDK 8 or later](#).
2. MySQL Database
   - Download and install [MySQL Community Server](#).
   - During installation, configure the root password and note it for the database connection.
   - Install MySQL Workbench (Optional) for GUI-based database management.
3. JDBC Driver
   - Ensure the mysql-connector-java .jar file is included in the project

3. Installation Steps

Open the project in your chosen IDE.

4. Database Configuration

Edit DatabaseConnection.java:
Change code here:
private static final String URL = "jdbc:mysql://localhost:3306/university_db";
private static final String USER = "root";
private static final String PASSWORD = "your_password";

5. Running the Project

-> Start the MySQL Server.Open MySQL Workbench or use the command-line client to connect to the MySQL server.
-> Create a database:
    CREATE DATABASE university_db;

->Execute the provided schema SQL text file.
->Run the Main class