Project Overview:

A Java Swing application to register students and view their details, connected to a MySQL database.

Prerequisites:

- Java JDK installed
- MySQL Server running with a database named `student_db`
- MySQL Connector/J version 9.3.0 JAR file added to `lib/` folder

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Database Setup:

```sql
CREATE DATABASE student_db;
USE student_db;

CREATE TABLE student (
  student_id INT AUTO_INCREMENT PRIMARY KEY,
  name VARCHAR(100),
  email VARCHAR(100),
  grade VARCHAR(10),
  phone VARCHAR(15)
);
```

Project Structure:

```
StudentManagementSystem/
├── src/
│   ├── model/
│   ├── dao/
│   ├── ui/
│   └── main/
├── lib/
│   └── mysql-connector-j-9.3.0.jar
├── out/
```

Compile the project:

```
javac -cp "lib/mysql-connector-j-9.3.0.jar" -d out src/model/*.java
src/dao/*.java src/ui/*.java
```

Run the Student Registration UI:

```
java -cp "out;lib/mysql-connector-j-9.3.0.jar" ui.StudentUI
```
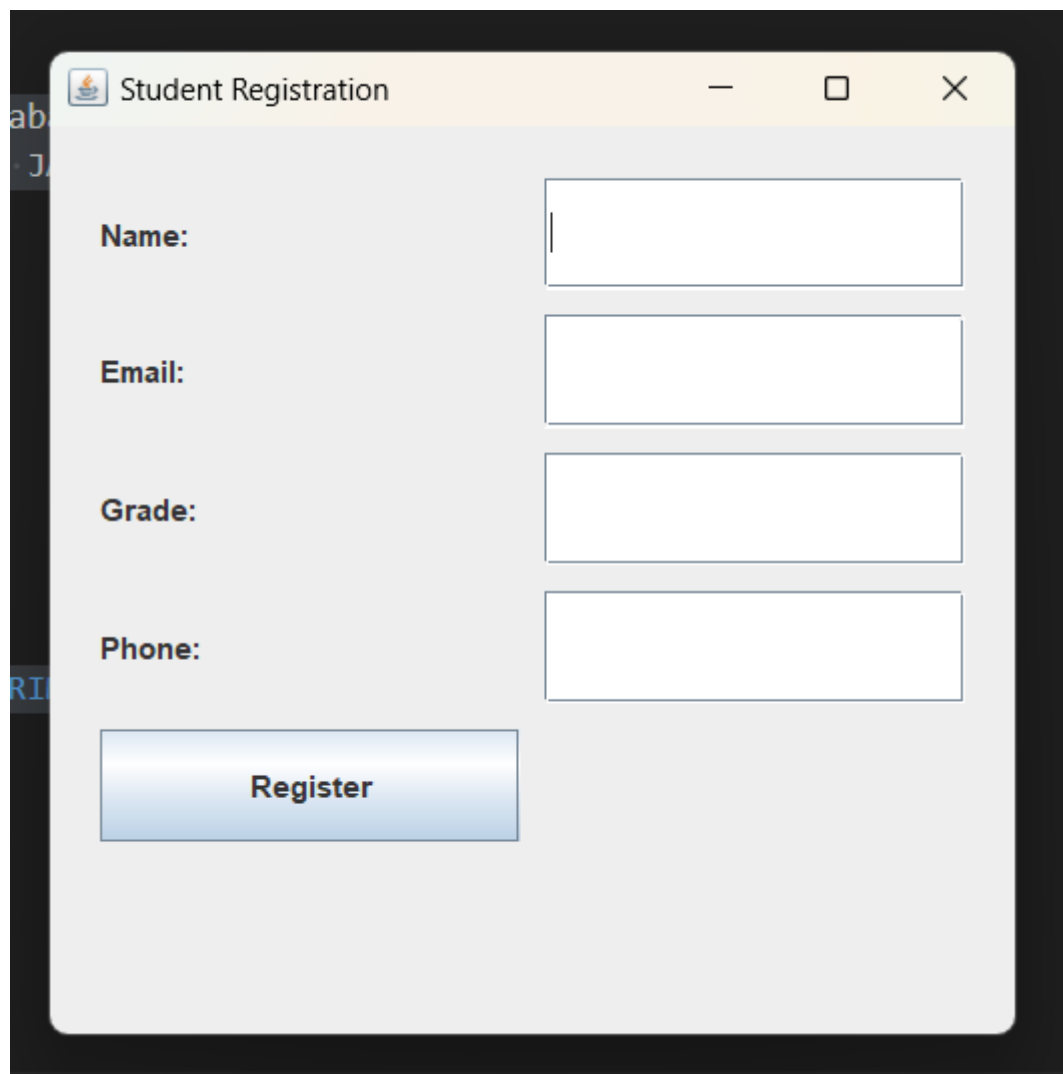
Run the View Registered Students UI:

```
java -cp "out;lib/mysql-connector-j-9.3.0.jar" ui.ViewStudentsUI
```

> *Note:* On Linux/macOS, replace the semicolon (;) with a colon (:) in the classpath.
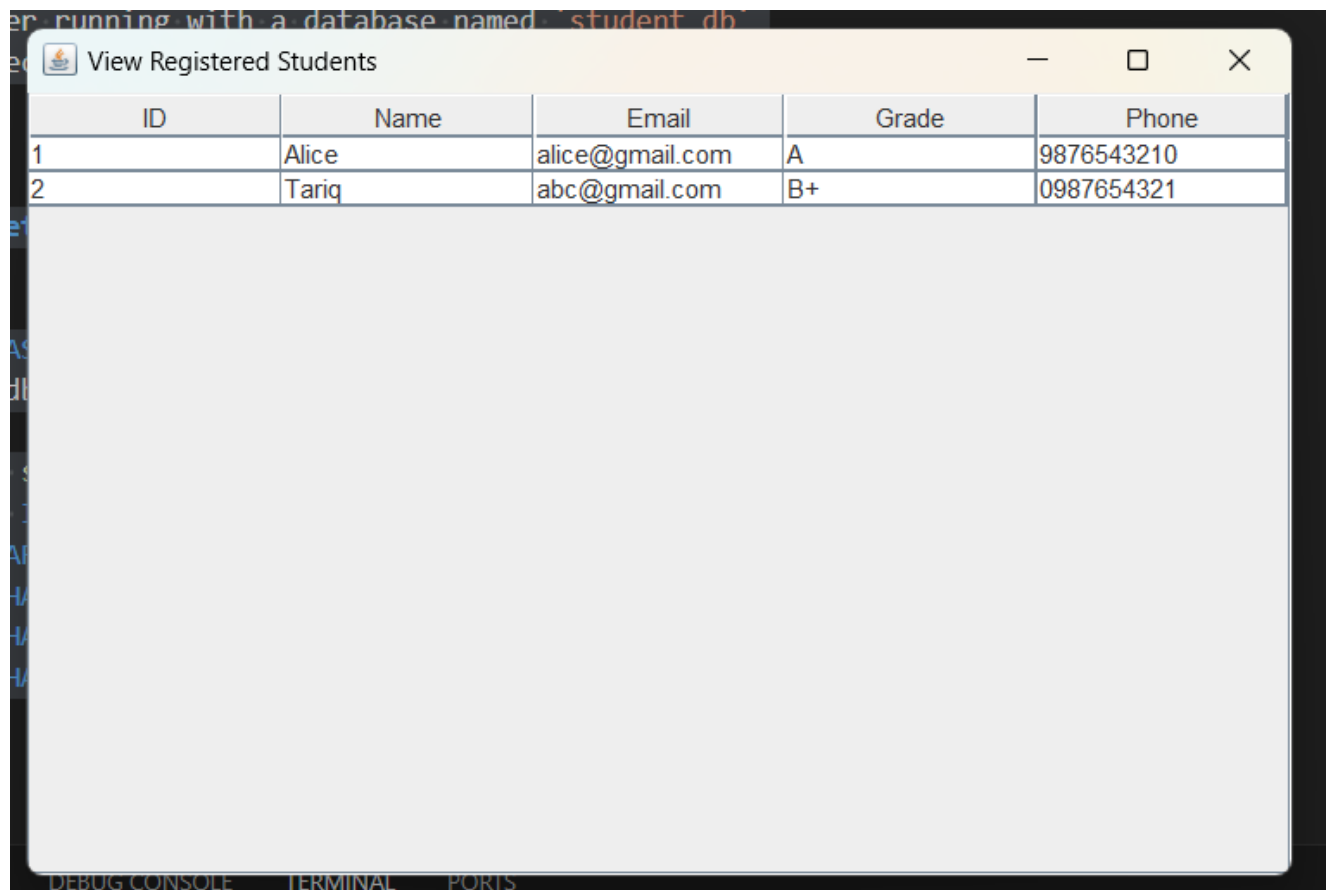
Output Screenshots

1. Student Registered Successfully

After filling out the registration form and submitting, the console shows:

2. View Registered Students

All registered students are displayed in a table UI:

Additional Notes:

- Make sure your database connection (username/password) is correct in your `DBConnection` class.
- MySQL server should be running and accessible at `localhost:3306`.

Support:

For any questions or issues, please contact [Tarique Ahsan] at [tariq.ahsan.1619@gmail.com].