Bus service Java Application

**Overview**

**BusService** is a Java-based bus booking application that provides functionalities for both users and administrators. Users can log in, search for buses, and book seats, while administrators can manage bus details such as adding, updating, and removing buses from the system.

**Features**

**User** **Login**: Secure login for users with username and password authentication.

**User** **Interface**: User-friendly GUI using Swing for Java.

**Bus** **Search**: Users can search for buses based on source, destination, and other criteria.

**Seat Booking:** Users can view available seats, book seats, and reset inputs.

**Admin Dashboard:** Admins have access to manage buses with options to add, update, and remove bus details.

**Data Persistence:** Bus details are stored and retrieved from a text file (buses.txt) for persistence.

**Technologies Used:**

Java SE

Swing (GUI toolkit for Java)

File Handling (for data persistence)

**How to Use**

**Compile and Run:**

Compile the Java files (User.java, AdminDashboard.java, and related classes).

Run the User class to start the application for users.

Run the AdminDashboard class to access the admin dashboard.

**User Interaction:**

**User Login**: Enter username and password (user1 / \*\*\*\* for users).

**Search and Book:** Search for buses, book seats, and manage bookings.

**Admin Dashboard:** Access admin features with username and password (Admin123 / @Admin123).

**File** **Handling**:

Bus details (bus number, source, destination, etc.) are stored in buses.txt.

Modifications (add, update, remove) to bus details update this file.

Sample Credentials

**User Login:**

Username: user1

Password: \*\*\*\*

**Admin Login:**

Username: Admin123

Password: @ Admin123

**Folder Structure**

src/: Contains Java source files (User.java, AdminDashboard.java, etc.).

buses.txt: Text file storing bus details for persistence.