

Online Reservation System

Description:

The ****Online Reservation System**** is a Java-based application that allows users to book, view, and cancel train tickets through a simple and user-friendly interface. The system interacts with a MySQL database to store reservation details such as train number, source, destination, and travel date.

This project is designed to provide an efficient way to manage train reservations, allowing users to:

- ****Login**** to their account for secure access.
- ****Reserve tickets**** by entering train details and travel dates.
- ****View current reservations**** and their details.
- ****Cancel reservations**** if required, after confirming the ticket details.

The application makes use of **JDBC** for database interaction, enabling seamless integration between the Java application and MySQL. This system provides a straightforward approach to managing travel reservations while ensuring data consistency and security.

Features:

1. **User Login System**: Secure login with username and password.
2. **Ticket Reservation**: Option to book tickets with train number, source, destination, and travel date.
3. **View Reservations**: Display all current reservations in the system.
4. **Ticket Cancellation**: Allows users to cancel tickets after confirming the reservation details.

Technologies Used:

- **Programming Language**: Java

- **Database**: MySQL
- **JDBC**: Java Database Connectivity for database interaction
- **Tools Used**: IntelliJ IDEA (for development), MySQL Workbench (for database management)

Setup Instructions:

1. **Clone or download** the project files.
2. **Setup MySQL Database**:
 - Create a database named `reservation_system`.
 - Import the SQL file (`reservation_system.sql`) to set up tables and initial data.
3. **Configure Database Connection**:
 - Update the database URL, username, and password in the Java code if needed.
4. **Run the Application**:
 - Compile and run the Java program using an IDE like IntelliJ IDEA or from the command line.

- The system will prompt for login, and you can start reserving, viewing, or canceling tickets.