RAILWAY RESERVATION SYTEM

DATABASE DESIGN AND IMPLEMENTATION OF AN APPLICATION SYSTEM

PROBLEM STATEMENT:

Online railway reservation is an efficient way to reserve tickets not by standing in the railway station

queue. Now all railways has their own website for online reservation provide better customer service. The

manual filling of reservation form cannot be changed once the details had been entered.

The goal of online railway reservation is easing the tedious task of railway activity. Initially the customer

has to create an ID in the appropriate website, so that the user can log into the system for doing further

activities. An online manager will maintain a databas

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To do login process the customer has to fill a registration form that contains the username, password. After submitting the form to the server,a customer ID is created with username and password thereby the customer with only the appropriate ID can reserve the tickets.

After login process, search train page will be displayed with source place and destination place. By giving required details, the available train details will be displayed. By selecting the convenient train, the reservation of train ticket will be processed.

After the search page the reservation template will be displayed with attributes (train name(selected), passenger name, age, no of seats, address).

Er diagram:

**log**

**us**

**has**

**User details**

**train**

**has**

**User detail**

Use of front-end tools to manipulate the database:

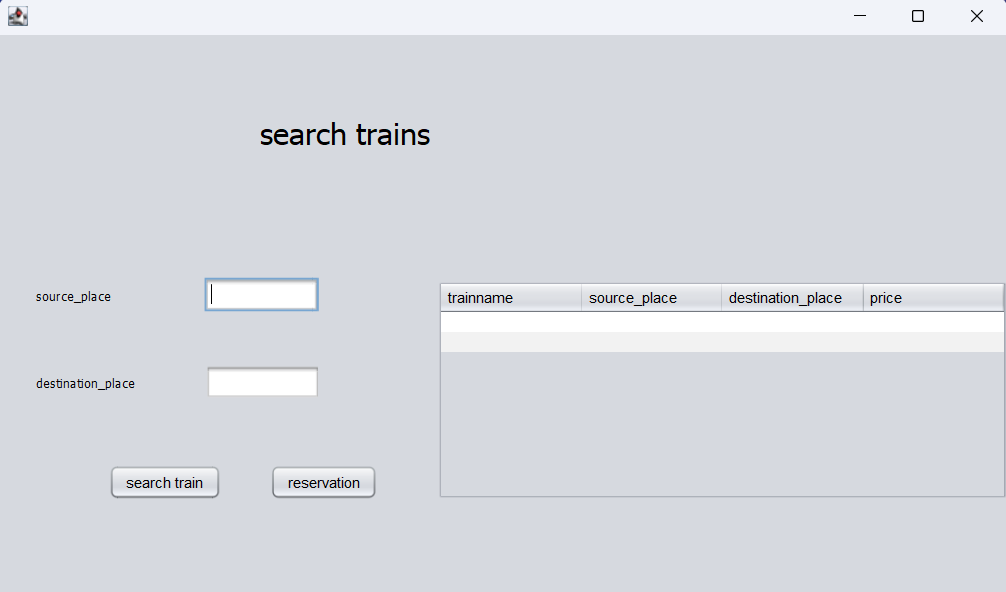
Java Swing, a GUI toolkit, can be used in report design to manipulate a database. It enables user input forms, data display, CRUD operations, event handling, validation, error handling, and security features. Java Swing offers an intuitive interface for efficient database interaction, ensuring data integrity and user access control.

Menu design:

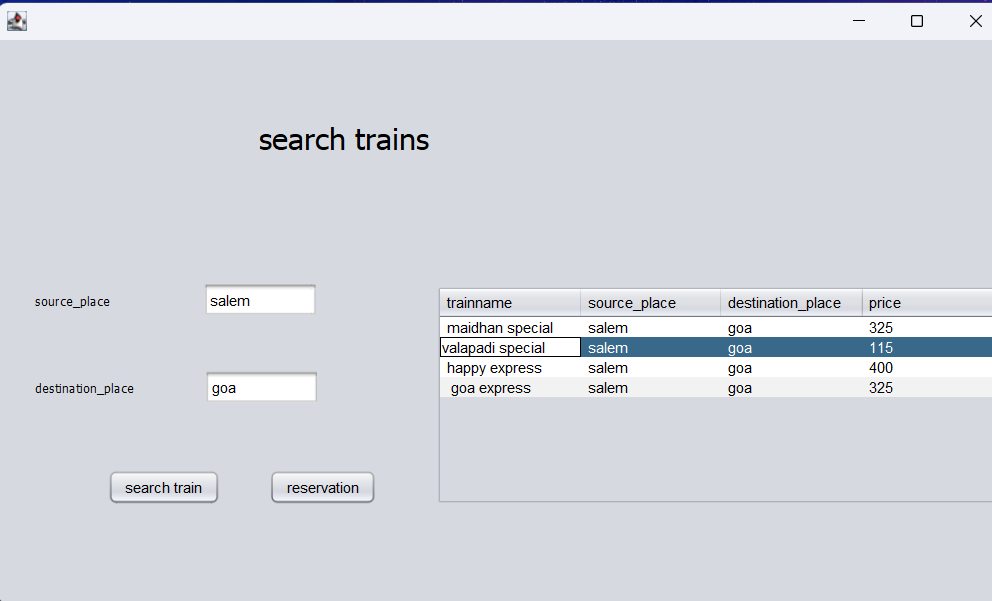
Login design:A screenshot of a computer login

Description automatically generated

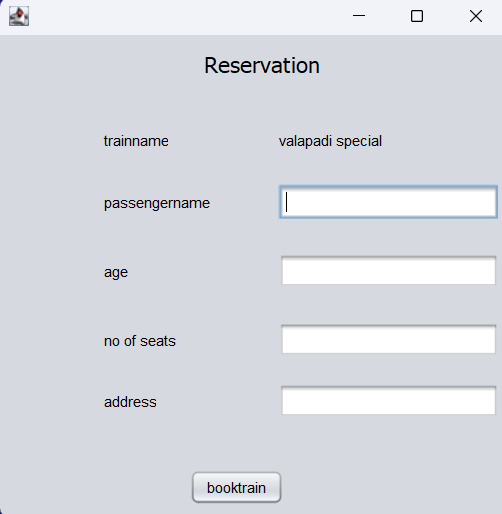
Searching train:



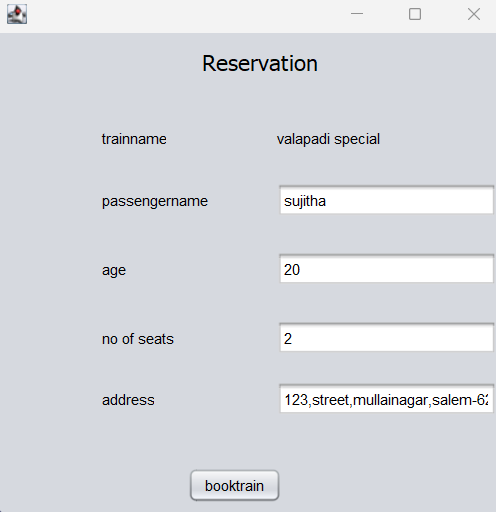
Filled search train:



Reservation form:



Filled reservation form:



Confirmation screen:

A screenshot of a computer

Description automatically generated with medium confidence

Back-end information:

A picture containing text, screenshot, font, line

Description automatically generated

Database connectivity:

package Railway;

import com.mysql.cj.jdbc.MysqlDataSource;

import java.sql.Connection;

import java.sql.SQLException;

import java.util.logging.Level;

import java.util.logging.Logger;

public class My\_CNX {

private static String servername = "localhost";

private static String username = "root";

private static String dbname = "r";

private static Integer portnumber =3306;

private static String password = "Sujitha@21”;

public static Connection getConnection()

{

Connection cnx = null;

MysqlDataSourcedatasource = new MysqlDataSource();

datasource.setServerName(servername);

datasource.setUser(username);

datasource.setPassword(password);

datasource.setDatabaseName(dbname);

datasource.setPortNumber(portnumber);

try {

cnx = datasource.getConnection();

} catch (SQLException ex) {

Logger.getLogger(" Get Connection -> " + My\_CNX.class.getName()).log(Level.SEVERE,null, ex);

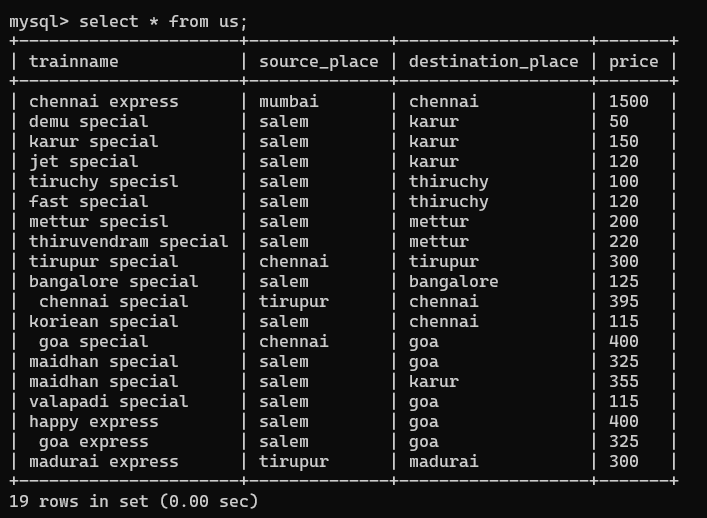
}

return cnx; } }

Report:

A screenshot of a computer screen

Description automatically generated with medium confidence



Result:

Thus, the design and implementation of railway reservation system using MySQL and eclipse was successfully executed.