

Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE3104

Course Title : Database Lab

Subject : Final Project Report Submission

Submitted By-

Group: Bus Ticket Management System(Bus_Log)

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Abstract

Bus Log is a Database project which we developed in Java Frame work. Bus Log is mainly developed for bus counter manager where he/she can easily book the ticket for the passengers. In this project we try to add all possible route and well known bus company.

In this project we have used JAVA (jdk-8.0.2) language along with an open-source Java-based framework, Java Swing. Java Swing is used to design our interface and UI. For managing data we have used a relational database management system (RDBMS). In this project we have used Microsoft SQL Server 2019.

Objective

We will analyze the project scenario and find out all the possible entities, relationships, and attributes. Then we will make a ER Diagram along with Relational Schema. We will ensure that the cardinality constraints and the relationships are accurate and meet up real-life scenarios. We will make the UI user-friendly so that users can easily find out the features they need and save time.

Strategy & Technology Used

We developed **Bus Log** in Netbeans(8.2) which is very user friendly . We connect Microsoft SQL Server 2019 with Netbeans(8.2) JDBC server connector(<u>mssql-jdbc-9.4.0.jre8</u>). To show the data from the database we add a <u>jar</u> file which name is <u>rs2xml.jar</u> By using this .jar file the work complexity dropped.

Database Table and Relation

RouteList

RouteId int (Primary Key)
RouteFrome varchar
RouteTo varchar
Distance int
PerKMFare int

Bus

BusNo varchar(Primary Key)
BusName varchar
Model varchar
Condition varchar

BusType varchar
Seat int
DepartureTime time
BusStatus varchar
RouteId int(Foreign key)

Customer

CustomerId int(PRIMARY KEY)
FirstName varchar
LastName varchar
Email varchar
PhoneNo varchar
CustomerAddress varchar

<u>Orders</u>

OrderId int (Primary Key)
OrderNo int
CustomerId int(Foreign Key)
BusNo varchar(Foreign Key)
SeatCount int
OrderDate date
Departuredate date
Total Fare int

Users

UserNo int (Primary Key)
UserID varchar
Userpassoword int



