Project Railway Reservation System

Submitted by

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in partial fulfilment for the award of the degree of

M.S. IN DATA SCIENCE



THE UNIVERSITY OF TEXAS AT ARLINGTON

DASC-5300-001-FOUNDATION OF COMPUTING

INSTRUCTOR: Soumaya Gharsallaoui

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HONOR CODE

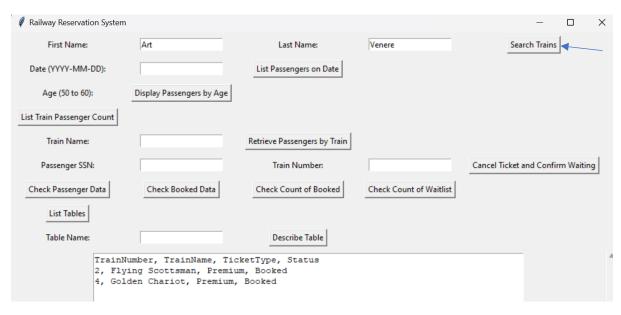
I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or that I contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Explanation of Query/GUI TASK:

The arrows are also provided which button should be pressed for execution.

1. User input the passenger's last name and first name and retrieve all trains they are booked on.



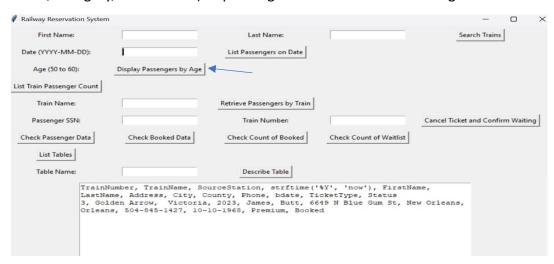
This output provides detailed information about each train booking associated with the passenger Art Venere.

2. User input the Date and list of passengers travelling on entered day with confirmed tickets displays on UI.



The user can easily see the passengers' names, the train seats, and ticket status for the date 21-02-2022.

3. User input the age of the passenger (50 to 60) and UI display the train information (Train Number, Train Name, Source and Destination) and passenger information (Name, Address, Category, ticket status) of passengers who are between the ages of 50 to 60.



The user can easily see the train number, train name, source and destination stations, passenger name, address, category, and ticket status for passengers aged between 50 to 60. To retrieve the details of the passengers there is a button that can display passenger by age and we need to click it to retrieve the data.

4. List all the train name along with count of passengers it is carrying.

Railway Reservation	on System				– 🗆 ×
First Name:			Last Name:		Search Trains
Date (YYYY-MM-I	DD):	l	List Passengers on Date		
Age (50 to 60):		isplay Passengers by Ag	ge		
List Train Passenger	Count	_			
Train Name:			Retrieve Passengers by Train		
Passenger SSN	l:		Train Number:		Cancel Ticket and Confirm Waiting
Check Passenger I	Data	Check Booked Data	Check Count of Booked	Check Count of Waitlist	
List Tables					
Table Name:			Describe Table		
	TrainNumber, TrainName, PassengerCount				
		Express, 0			
		g Scottsman, 6			
		n Arrow, 7 n Chariot, 12			
		aja Express, 0			
		.,,, .			

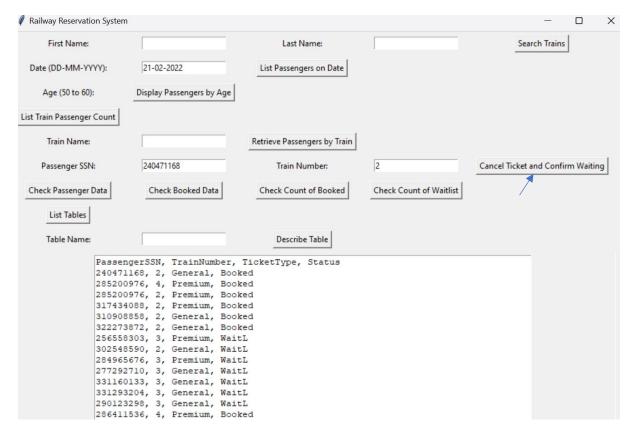
We will get Trainnumber, TrainName, PassengerCount from the GUI when clicking List train passenger count button.

5. Enter a train name and retrieve all the passengers with confirmed status travelling in that train.

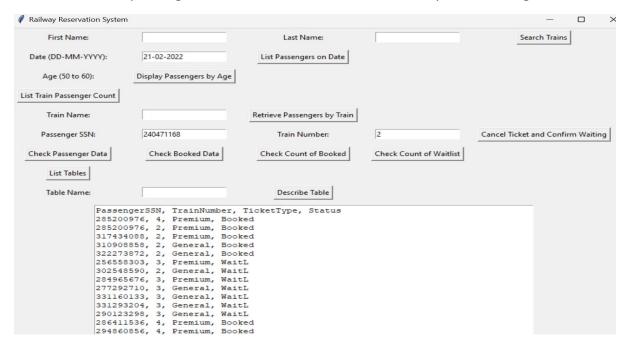


We had retrieved all the passenger details along with their firstname, lastname, ticketype, status for those who are travelling in train named golden chariot.

6. User Cancel a ticket (delete a record) and show that passenger in waiting list get ticket confirmed.



We will first check confirmed passenger who have booked their ticket and decided to remove based on passenger SSN and the train number which they are travelling.



Here we are removing the passenger having SSN number 240471168 travelling in train number 2, the second picture shows the data got removed. The next in the waiting list got the ticket.

Team contributions:

ARUN: created the GUI, executed first three tasks of the query, prepared the readme file

MOHIT: executed the remaining three query tasks and prepared the report.