Railway Reservation System
Project - 1

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Honor Code

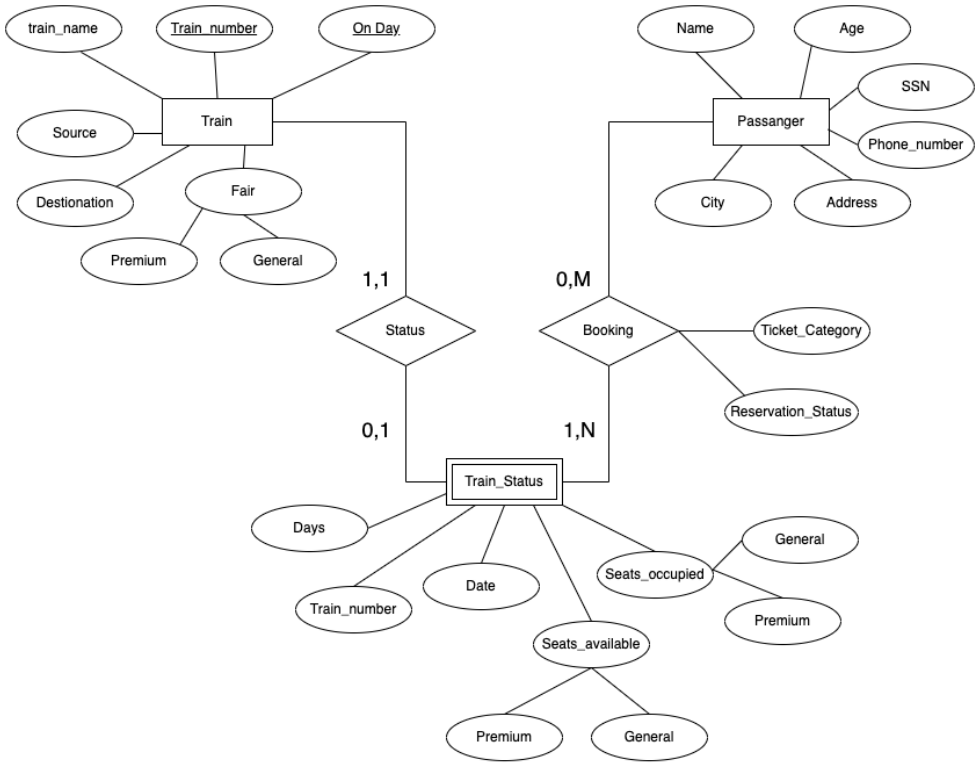
I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

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.

Screenshots

PART 1: ER DIAGRAM

The assumptions and cardinality are mentioned below



Assumption:

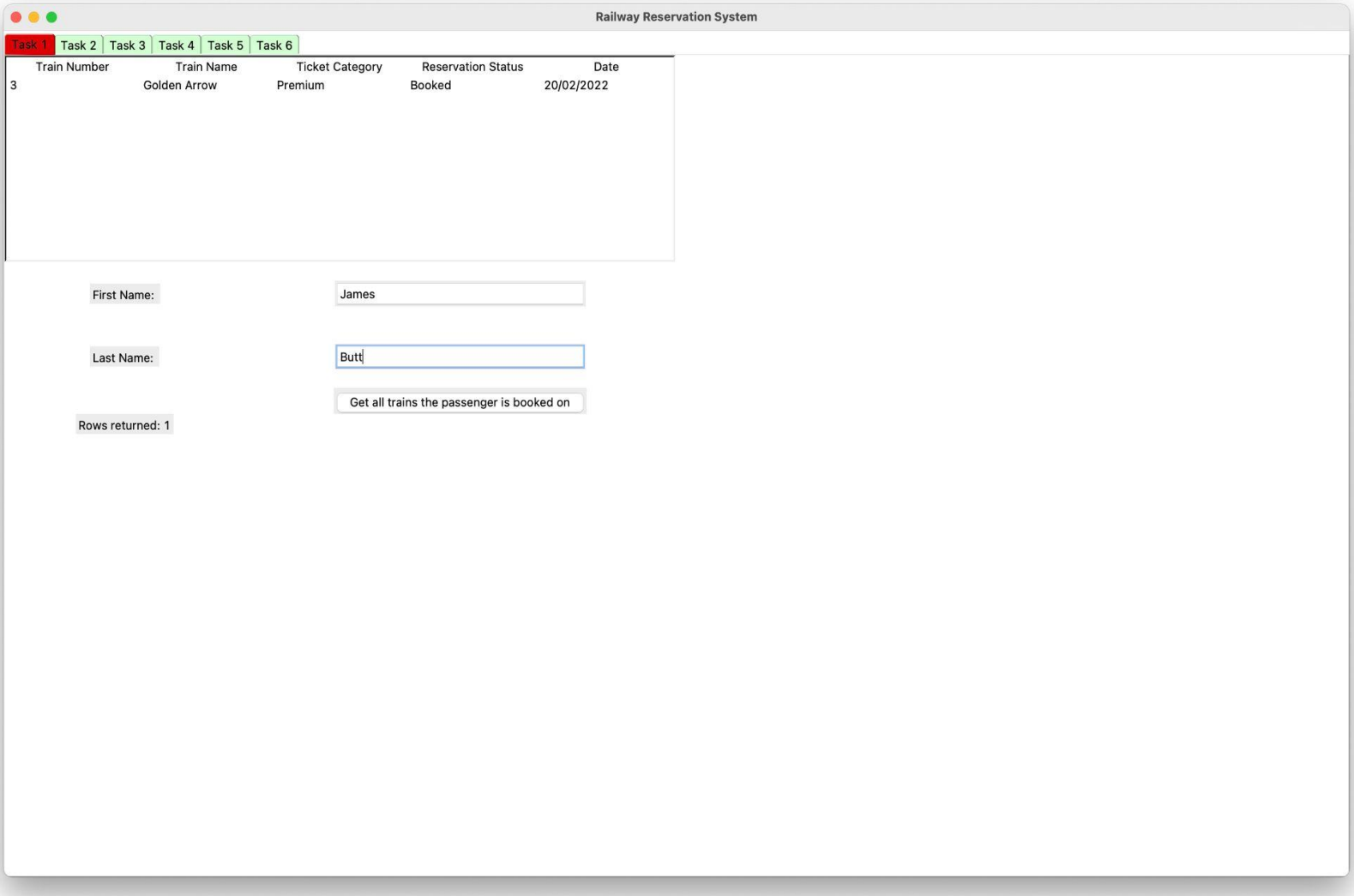
In Entity TRAIN, after applying 1-norm the attribute weekdays_available will be converted to attribute On_Day.
As per the definition of 1st normalization form, a relation should only have single-valued attribute

Train_no	Train_name	Day
1	Train 1	Fri
1	Train 1	Sat
1	Train 1	Sun
2	Train 2	Sun
3	Train 3	Mon

If the 1st normalization is not applied, then the cardinality between Train and Train_status will be (1,1) - (0, N). As we applied 1st norm, it will be converted to (1, 1) - (0,1)

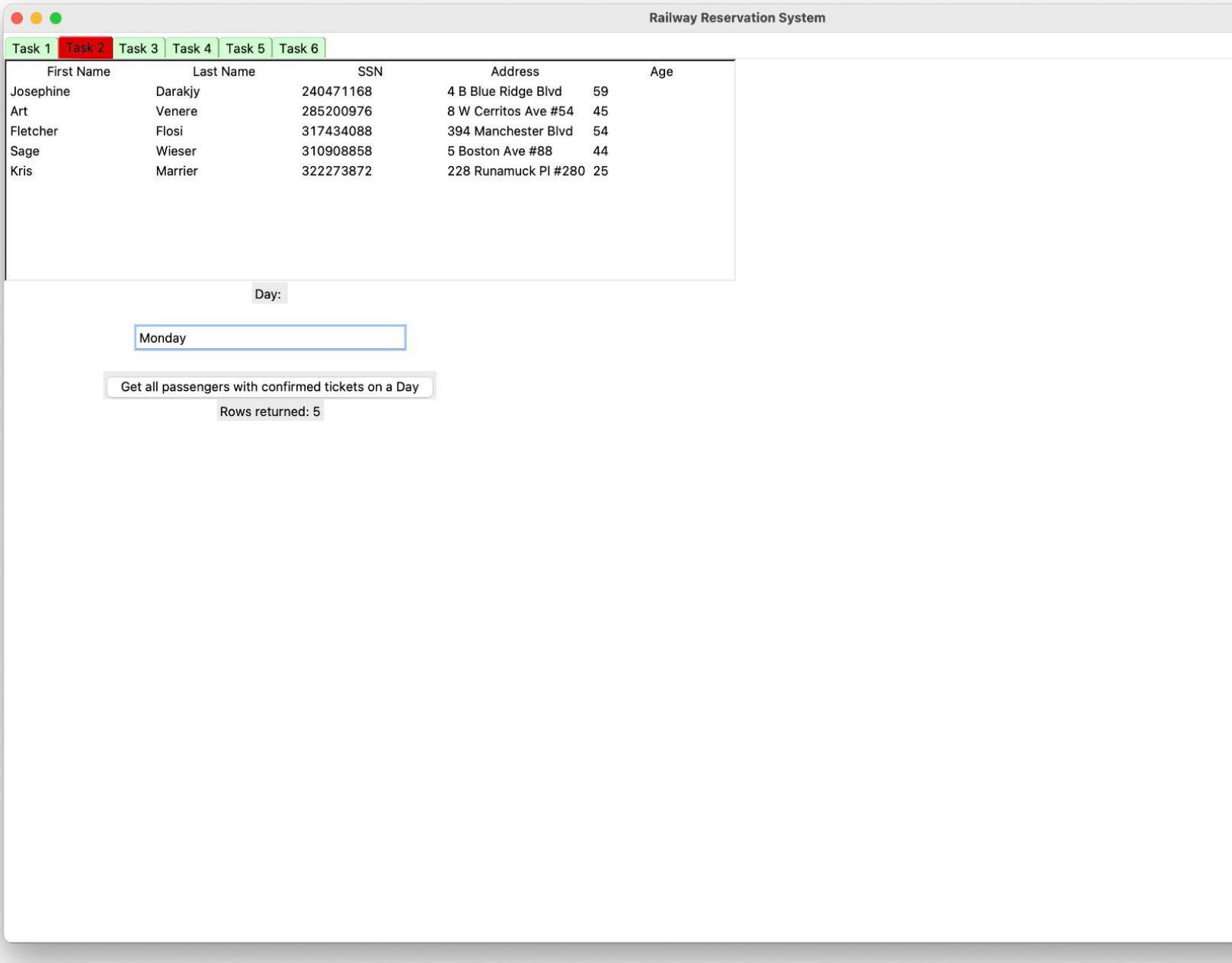
PART 2: GUI

Task 1:
When the user provides the first name and first name the query displays

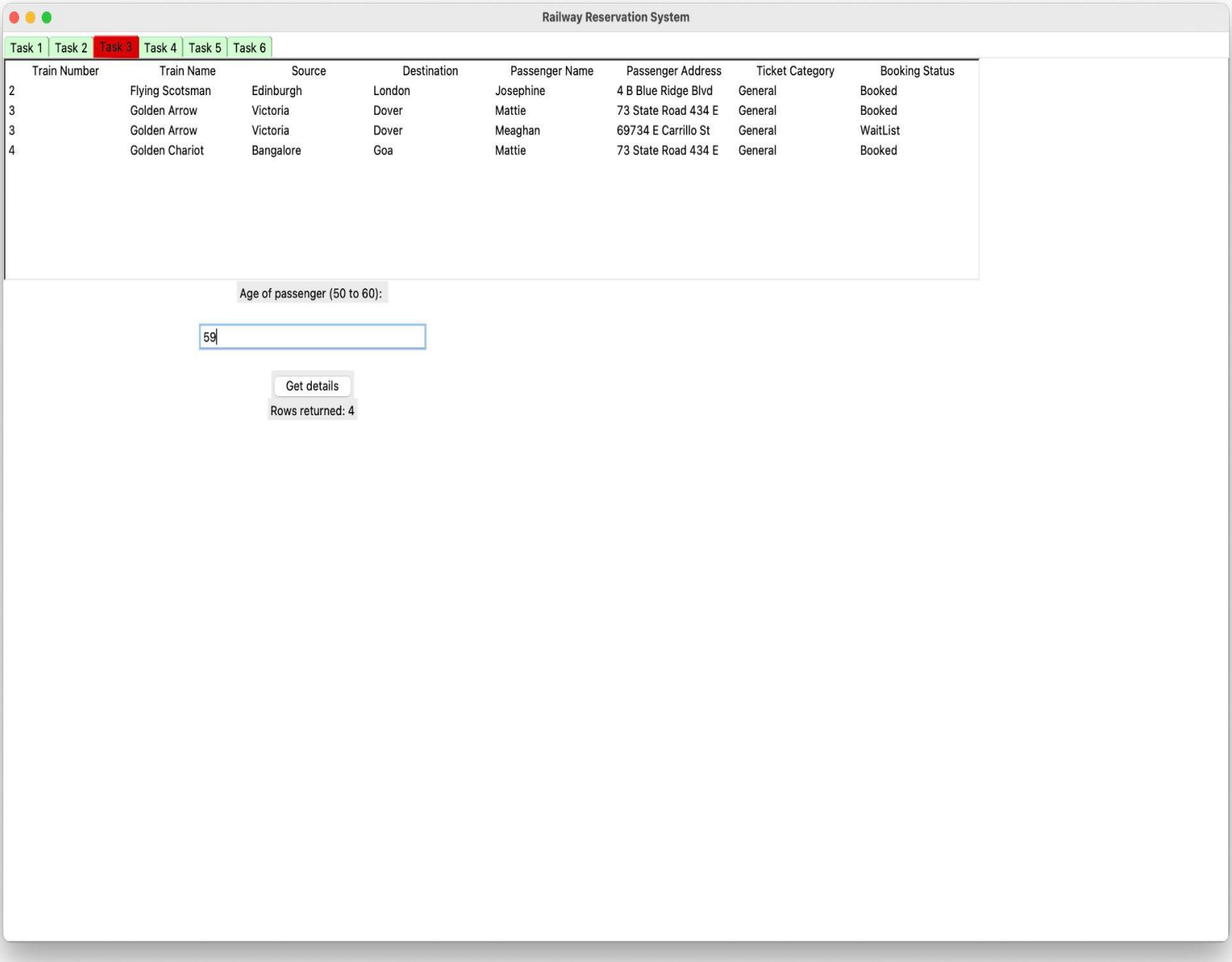


all the trains booked.

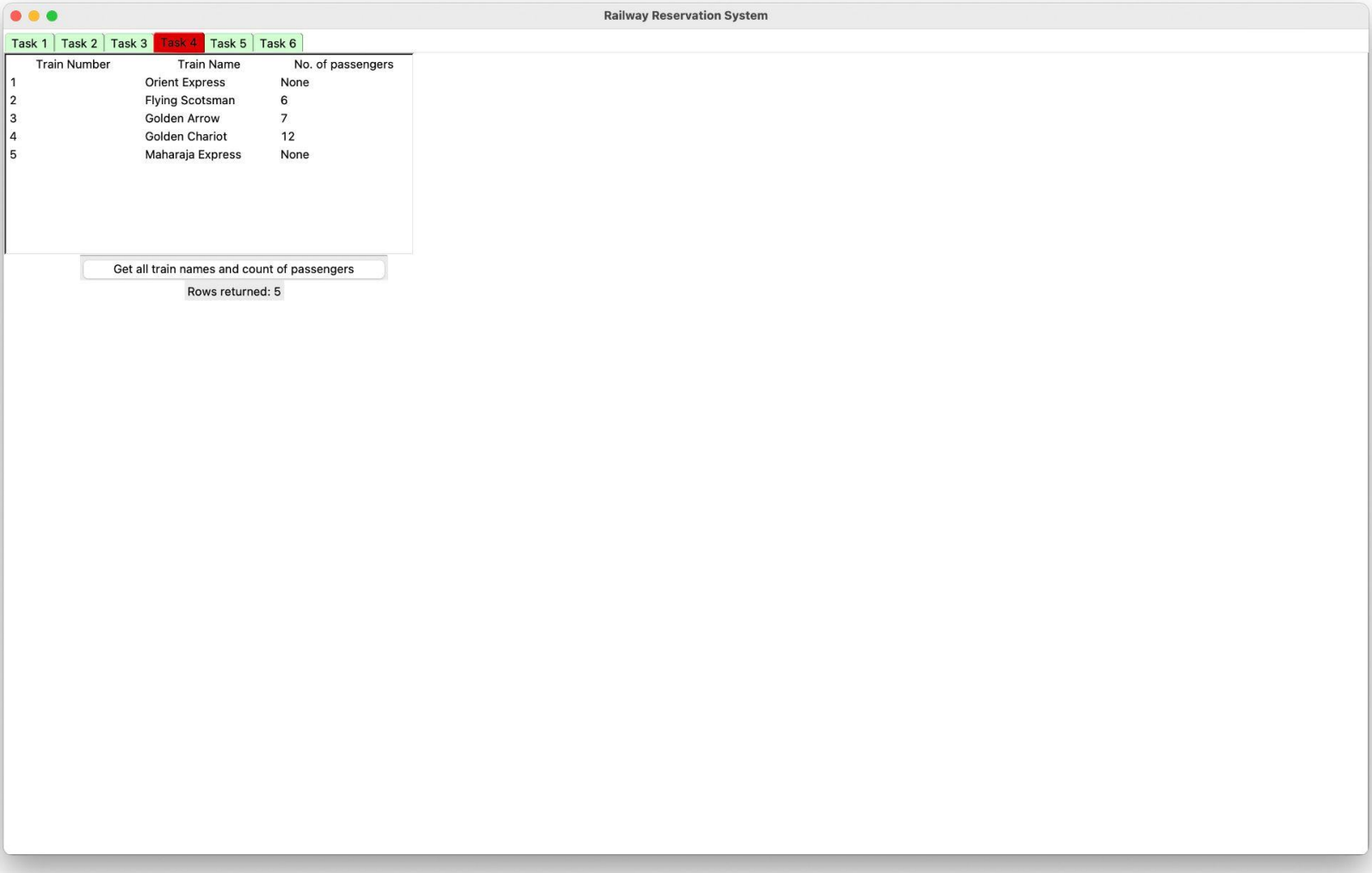
Task 2:
When the user inputs the Date all the confirmed tickets are displayed.



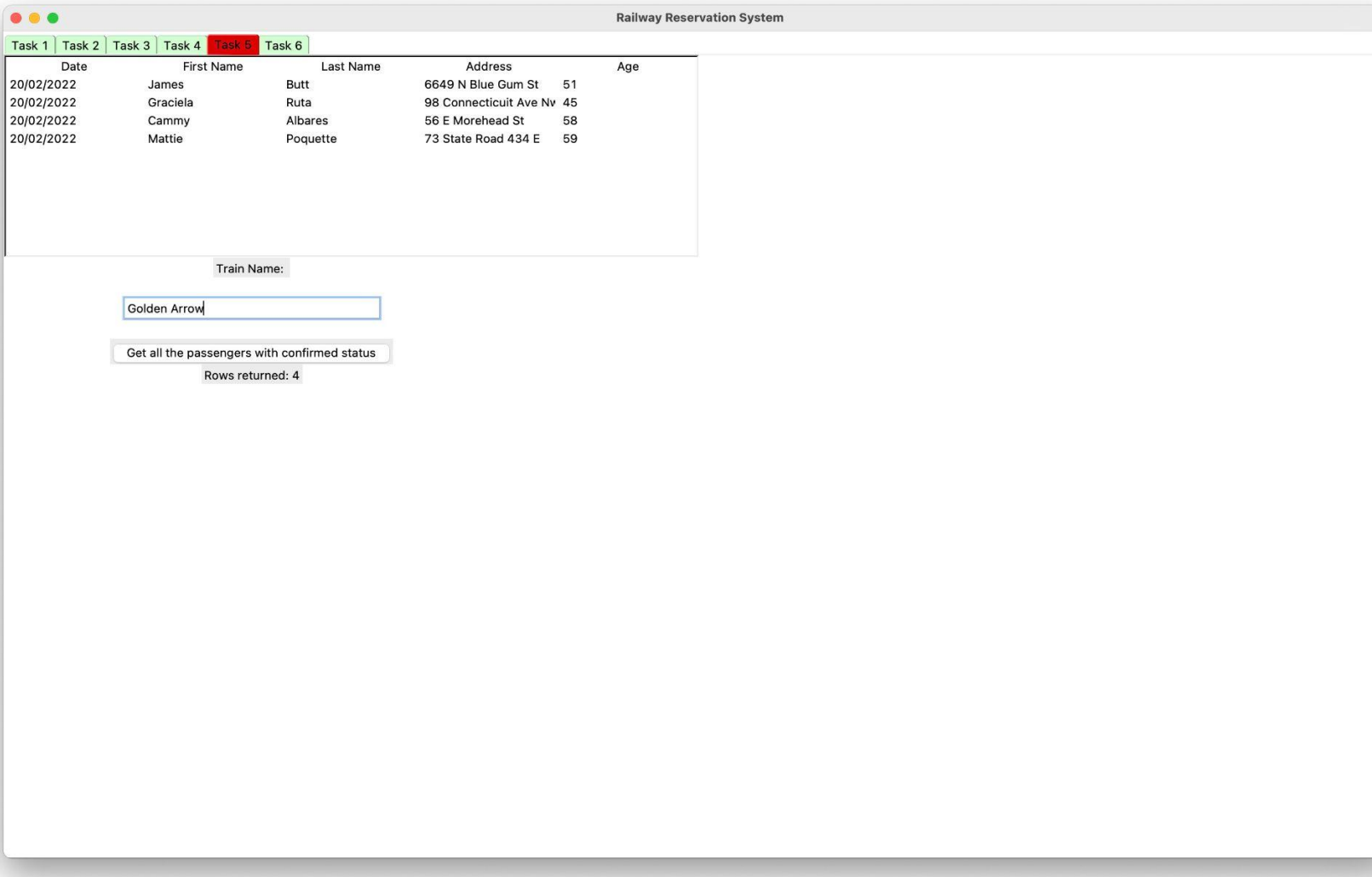
Task 3:
Train Number, Train Name, Source, Destination, and Passenger information who are between 50 to 60 are displayed.



Task 4:
On this page, all the train names with passenger count are displayed.

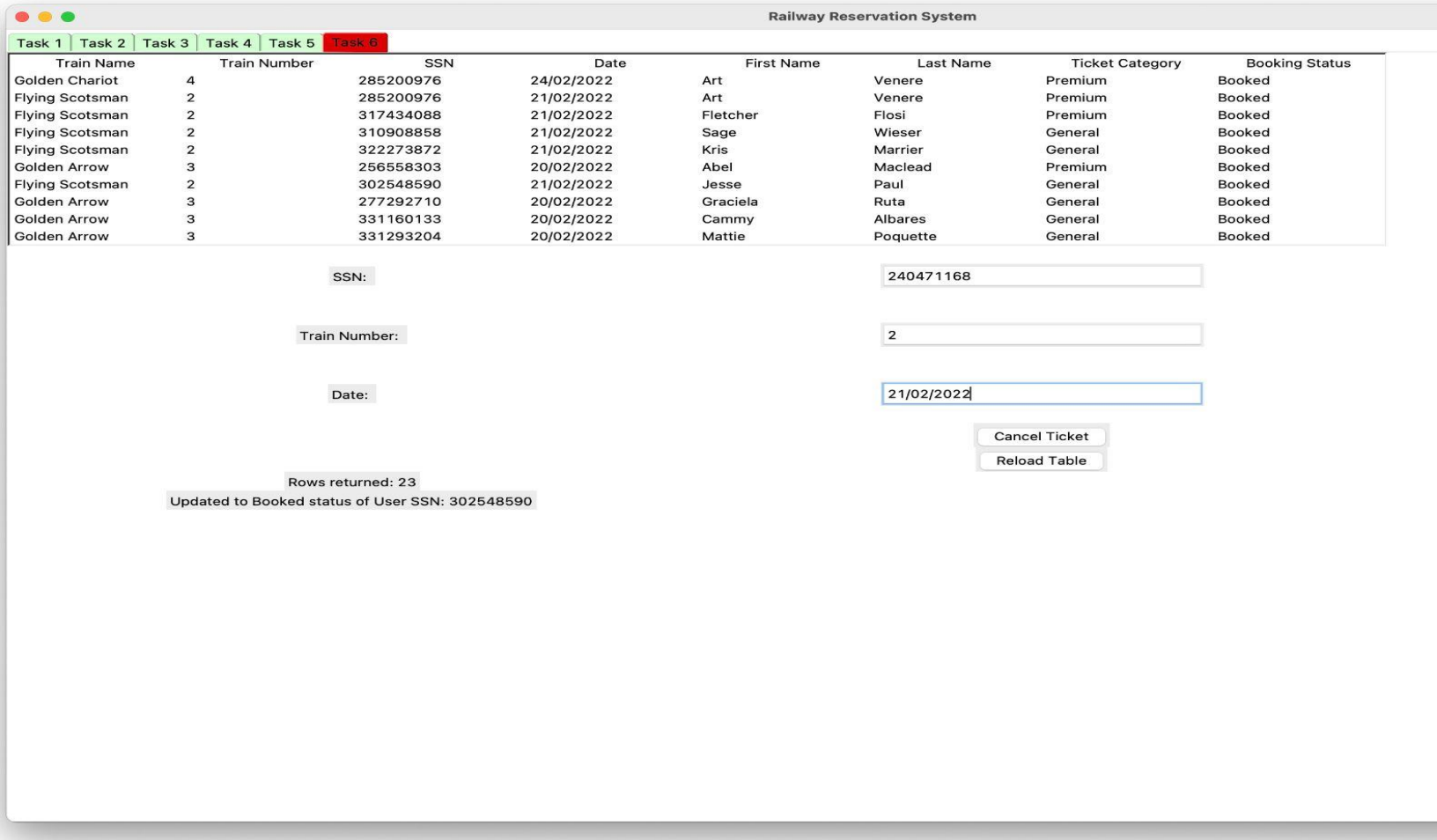


Task 5:
The passengers with Booking status “CONFIRMED” are returned upon



entering Train Name.

Task 6:
When a user cancels the ticket another passenger who is on the waitlist



Booking status will be changed to confirmed and their SSN will be displayed.