

# Train station

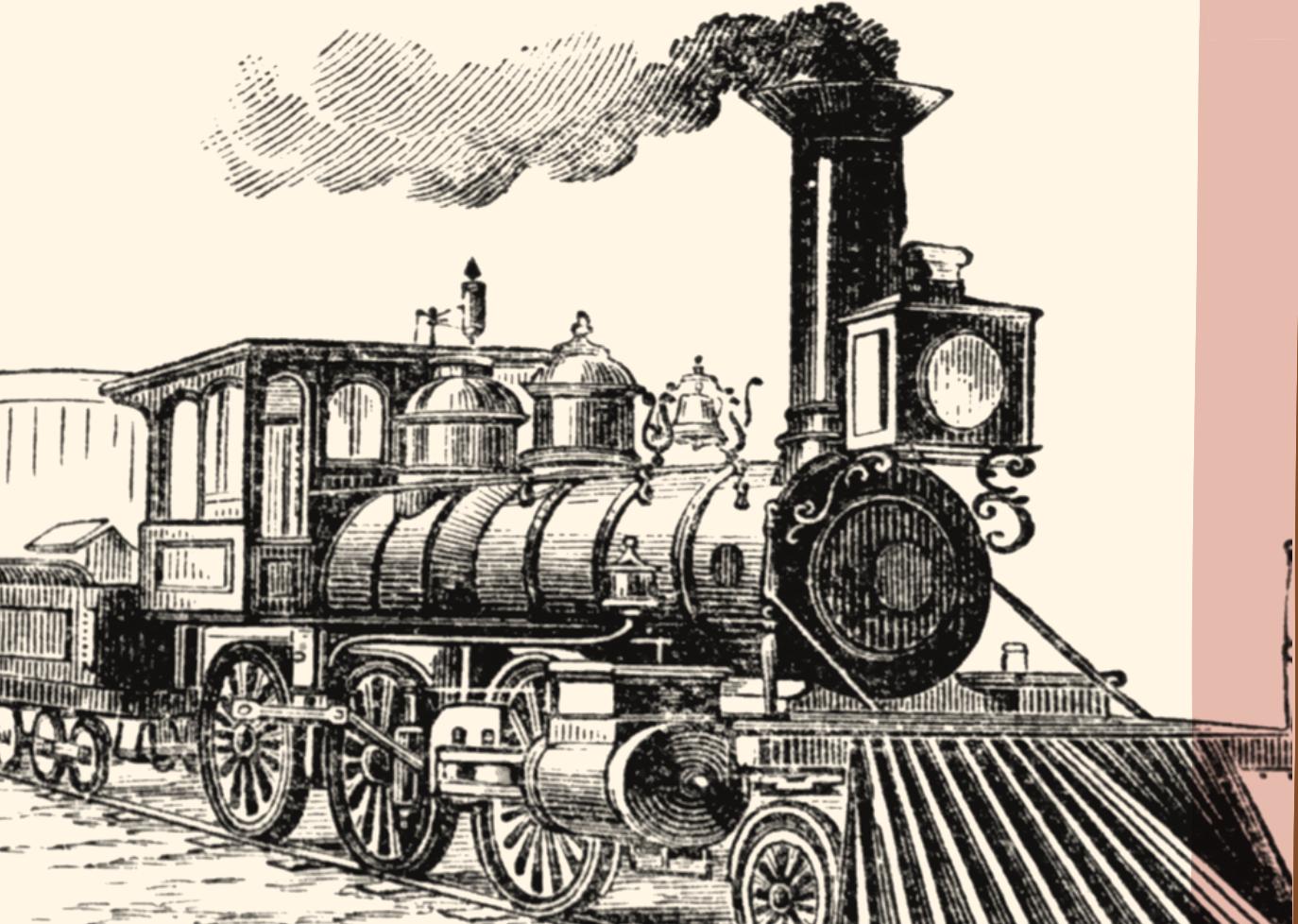
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- L. Samirah Mohammed Albalhareth
- TA.Maha Saeed AlGhamdi &&





# Objectives

- 1- introduction
- 2- program outputs
- 3- Conclusion



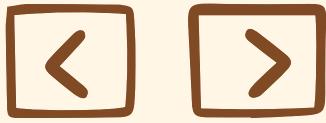
part One

OOP2

# Project Idea



The idea of our project We have designed a program in the Java language with its connection to the databases. We have designed a train station that helps the user to book a trip for him or her by creating an account. We also did not design our program only for the user who wants to book at the station. We added interfaces to the Admin and finally the employees each of them can Perform some different operations. Our legislators contain 12 classes that we will learn about during our presentation for today



# How will the program work?

FIRST : USER ENTER HIS EMAIL AND PASSWORD TO LOGIN OR CLICK ON CREATE ACCOUNT TO CREATE NEW ACCOUNT WITH USER ROLE

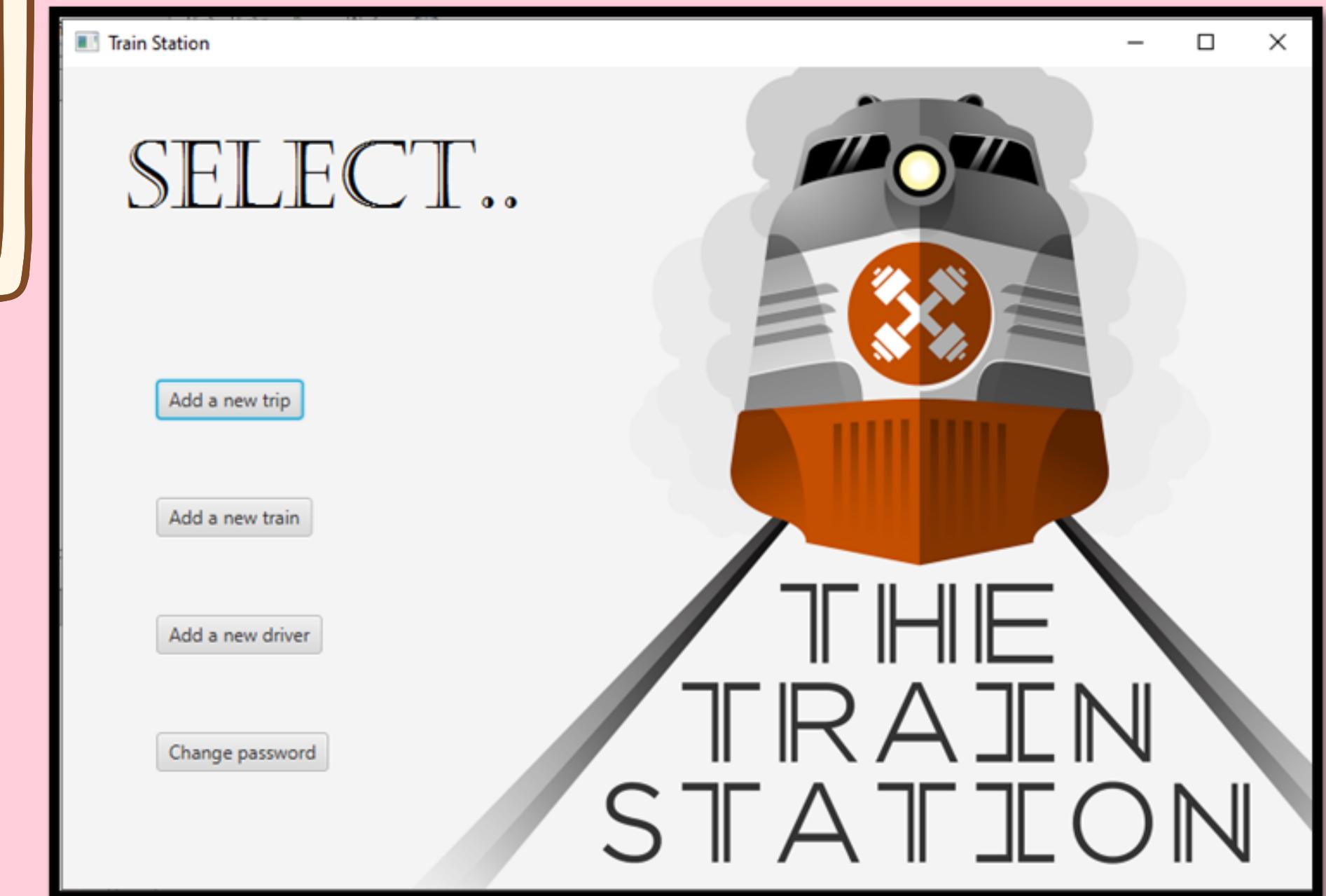
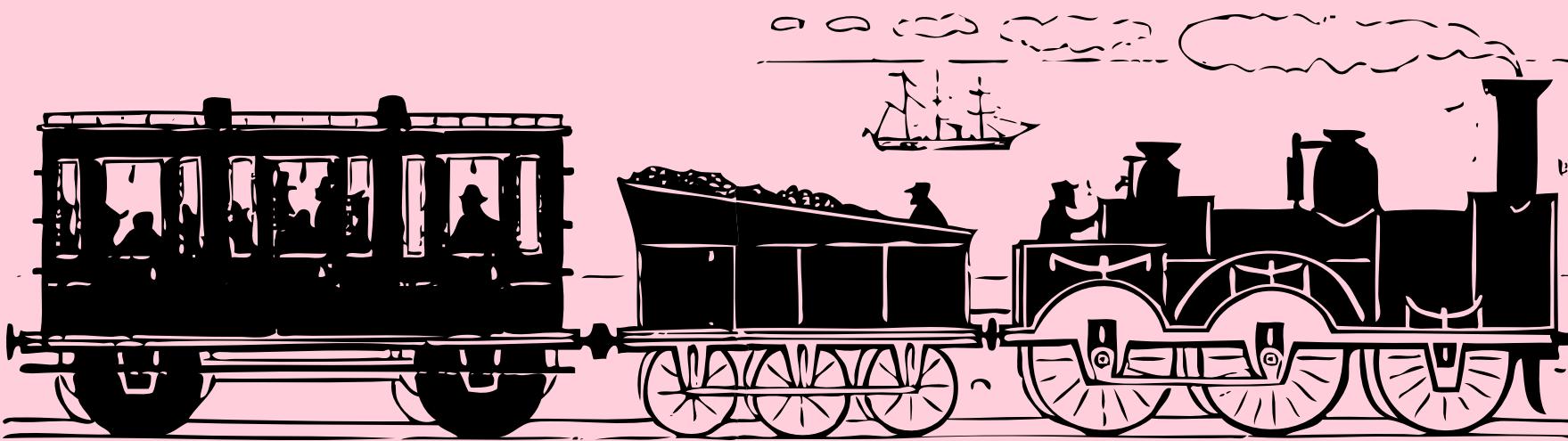


If both of email and password correct then the next interface will appear depending on user role





Employee interface:  
If the employee click on  
"Add a new trip" then:



Here employee should fill fields .. when choosing classification of train then he can choose any train has same class..

ADD A NEW TRIP

Classification of train	<input type="button" value="▼"/>
Code of train	<input type="button" value="▼"/>
Name Of Driver	<input type="button" value="▼"/>
Cost of trip	<input type="text"/>
Departure City	<input type="text"/>
Destination City	<input type="text"/>
Departure Time	<input type="text"/>
Arrival Time	<input type="text"/>
Date Of Trip	<input type="button" value="▼"/>

ADD A NEW TRIP

Classification of train	<input type="button" value="Normal ▾"/>
Code of train	<input type="button" value="▼"/>
Name Of Driver	<input type="button" value="▼"/>
Cost of trip	<input type="text"/>
Departure City	<input type="text"/>
Destination City	<input type="text"/>
Departure Time	<input type="text"/>
Arrival Time	<input type="text"/>
Date Of Trip	<input type="button" value="▼"/>



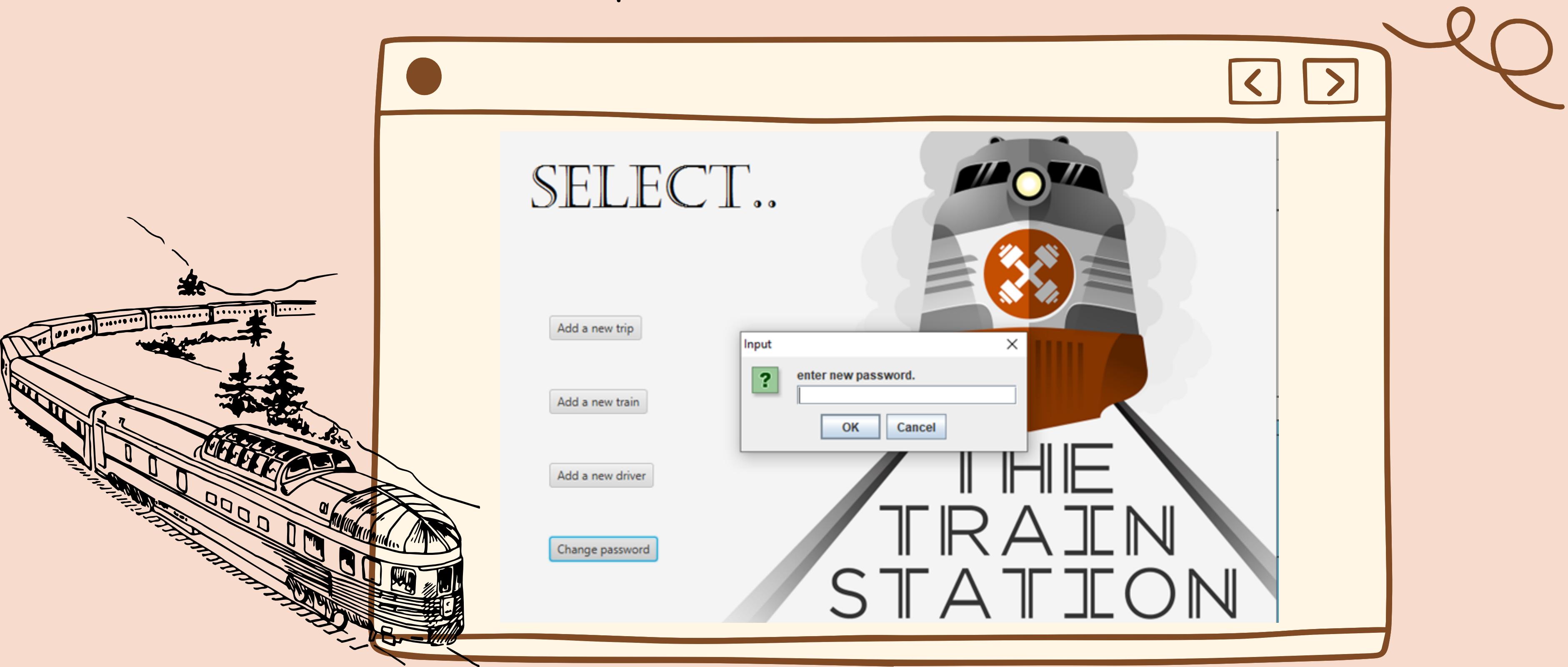
In the same employee interface if employee click on add a new train:

The screenshot shows a software window titled "ADD A NEW TRAIN". The window has a standard OS X-style title bar with icons for back, forward, search, and close. Below the title bar, there are three input fields: "Classification" (with a dropdown arrow), "Code" (an empty text field), and "Total number of seats" (an empty text field). At the bottom left is a small "Add" button. The main area of the window is empty, showing a light gray background.

If the employee click on add a new driver:

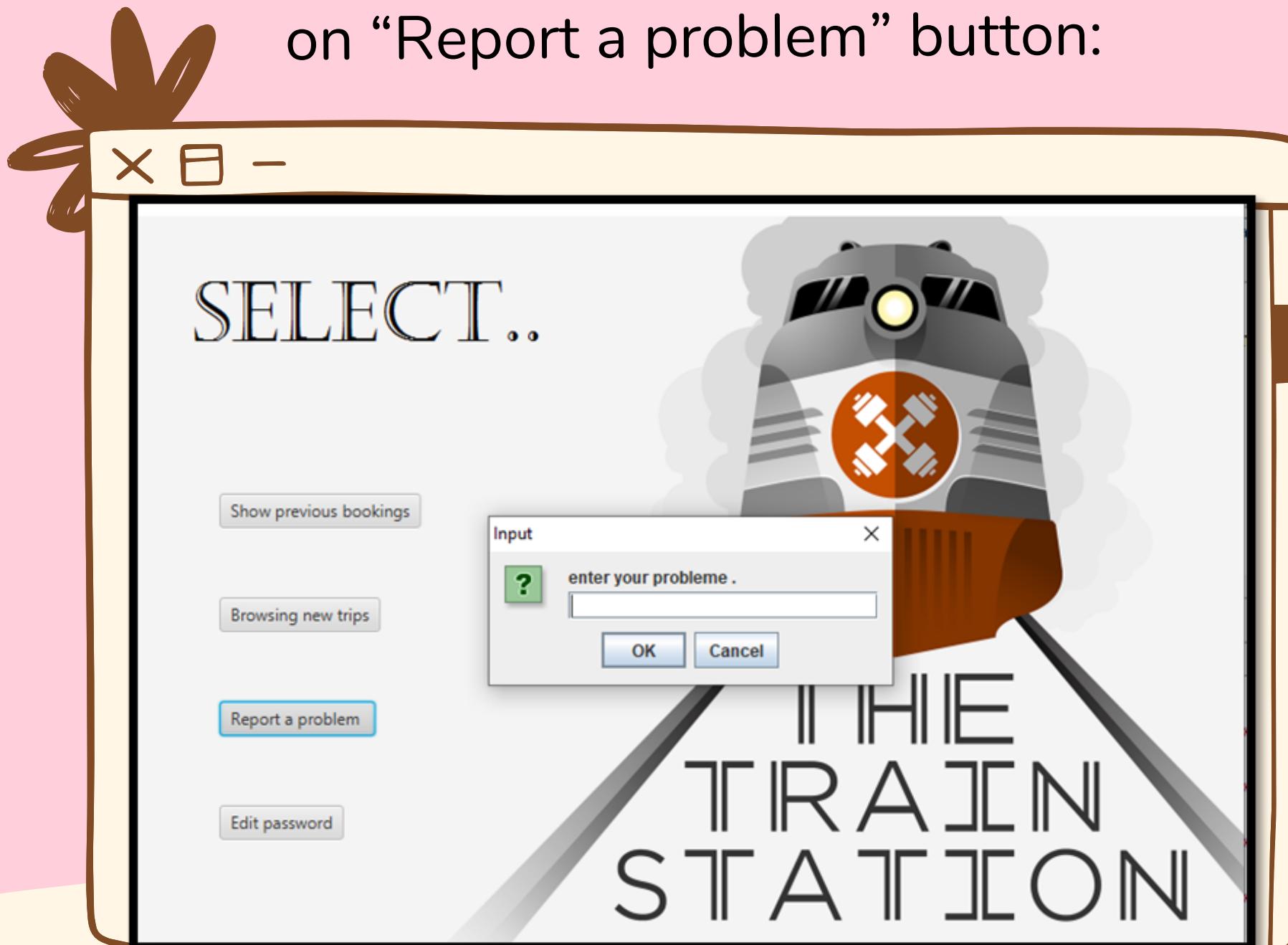
The screenshot shows a modal dialog box titled "ADD A NEW DRIVER". The dialog has a light blue header and a white body. It contains five input fields: "First name", "Middle name", "Last name", "Salary", and "Date Of Birth" (with a date picker icon). Below the "Date Of Birth" field is a red message: "choose your birthday!". At the bottom left is a "Add" button. The entire dialog is highlighted with a thick brown border.

And of course employee can change his password by clicking on change password button

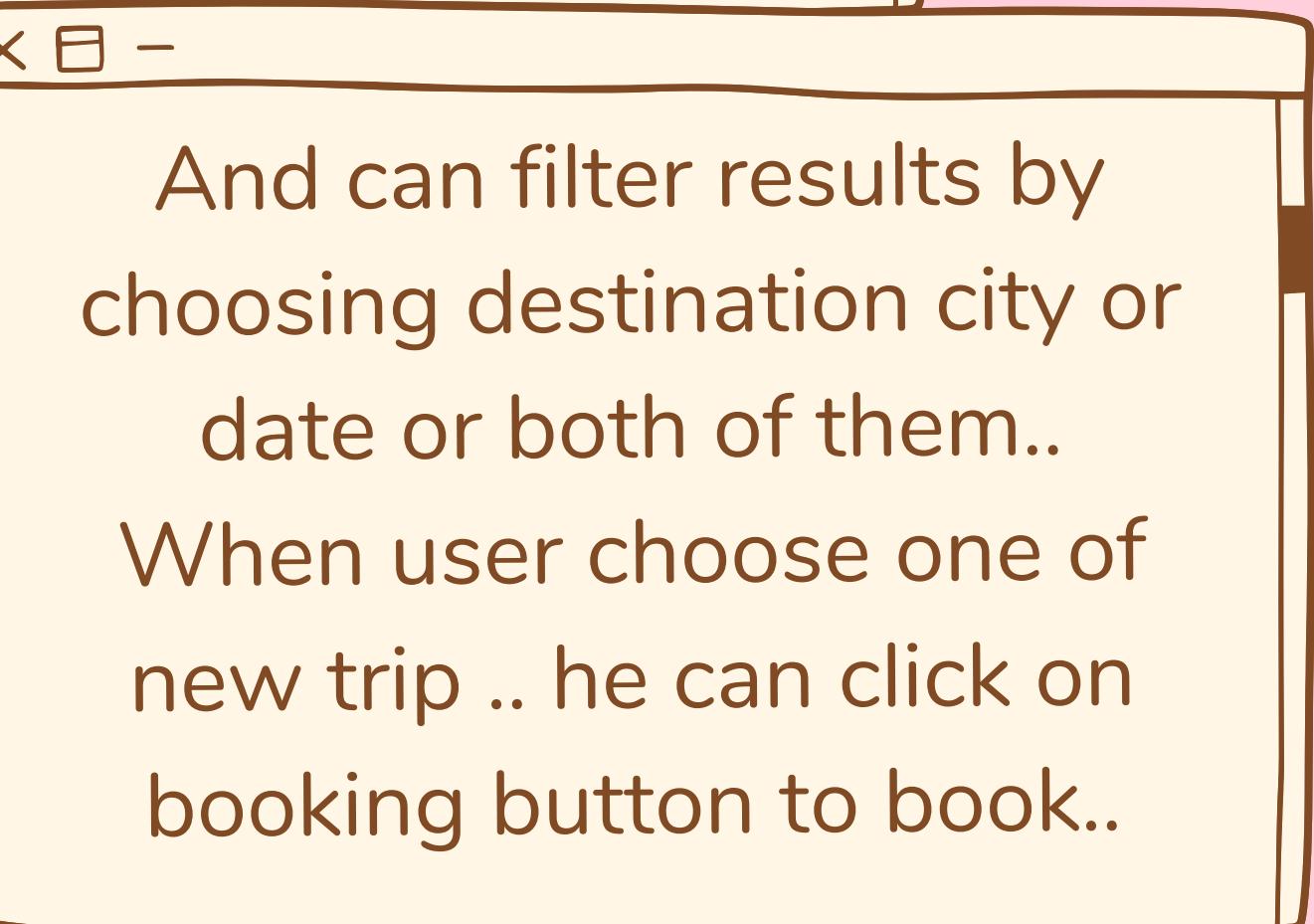
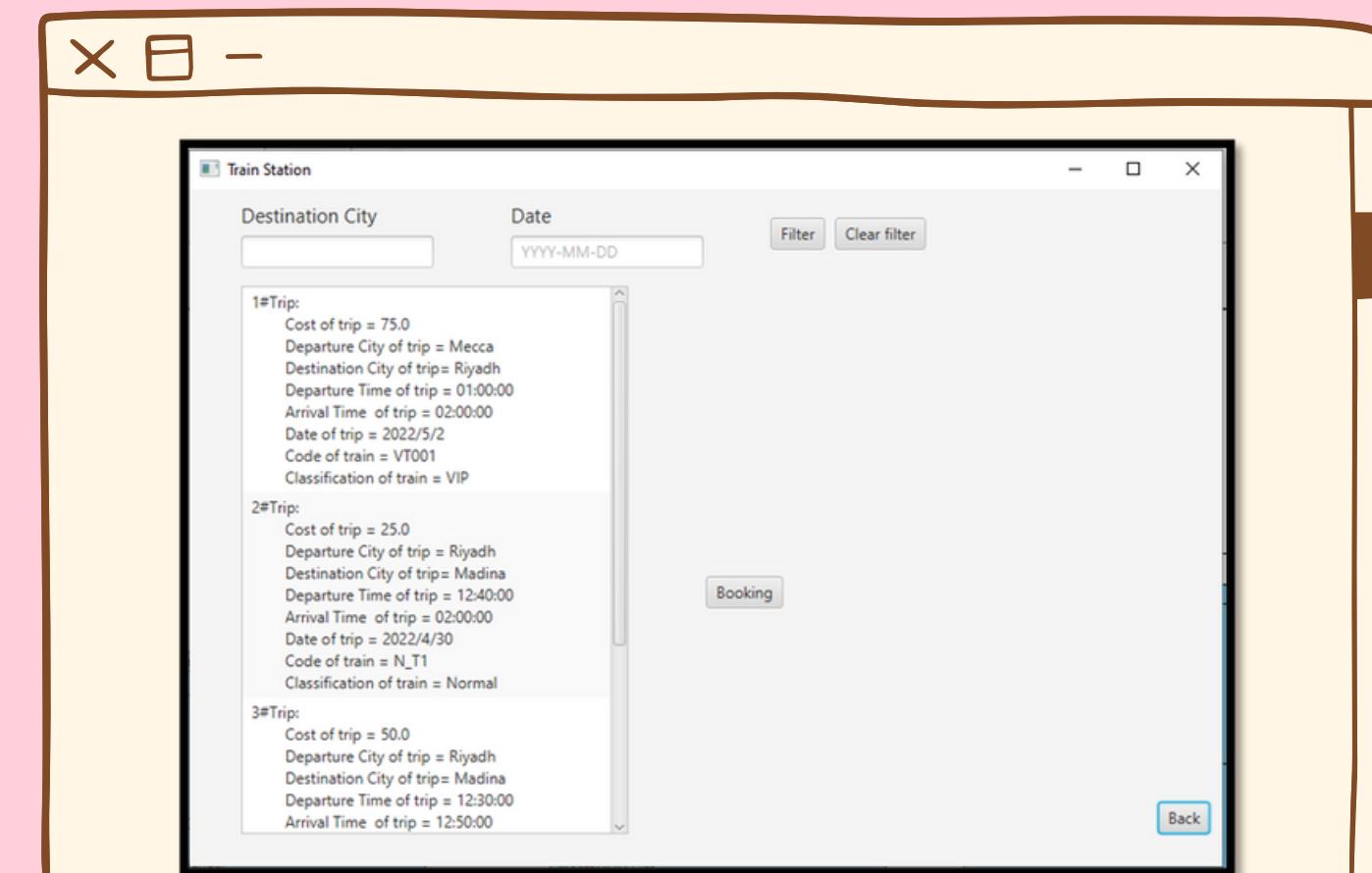


# In the user interface

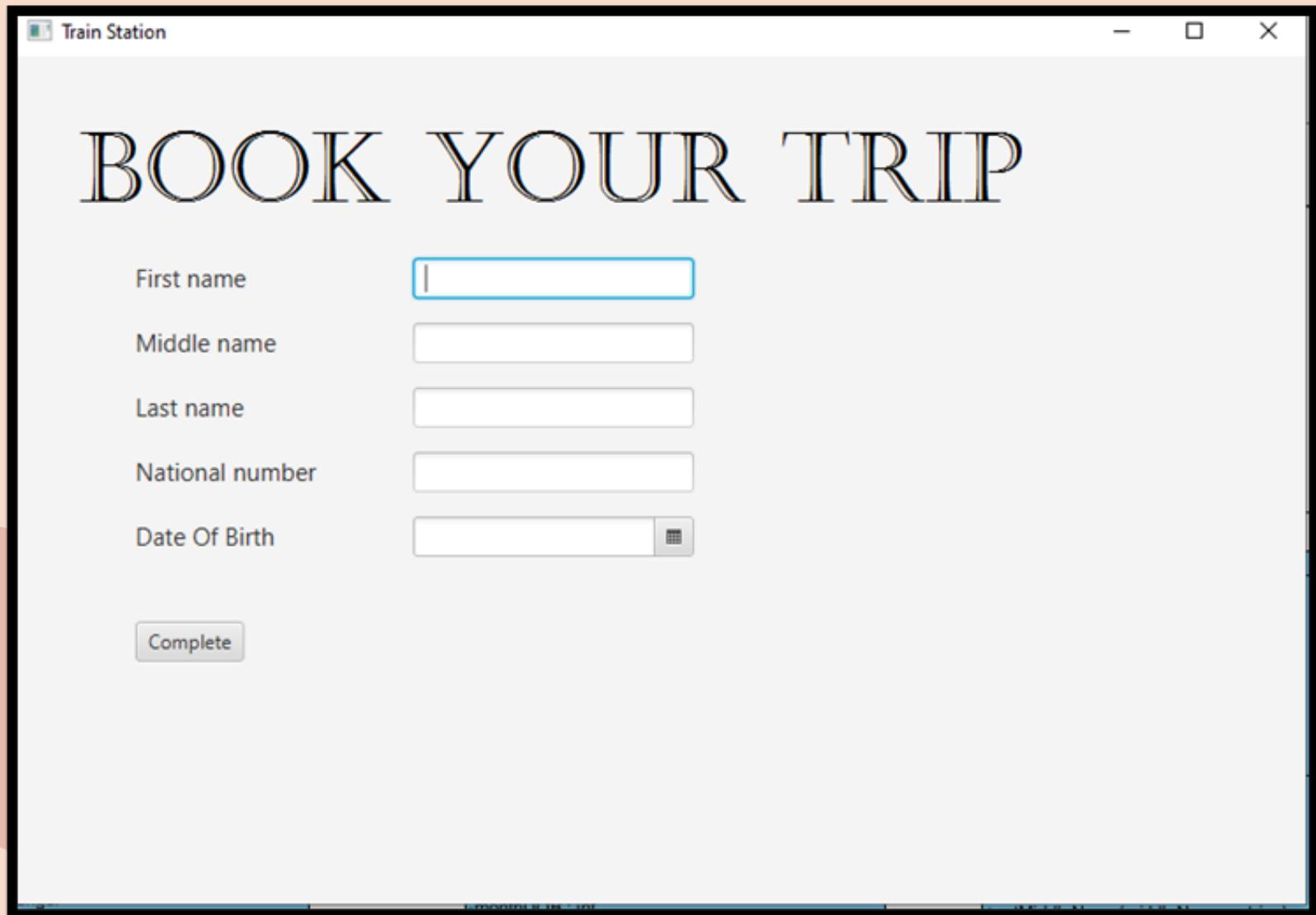
Can report any problem by clicking on “Report a problem” button:



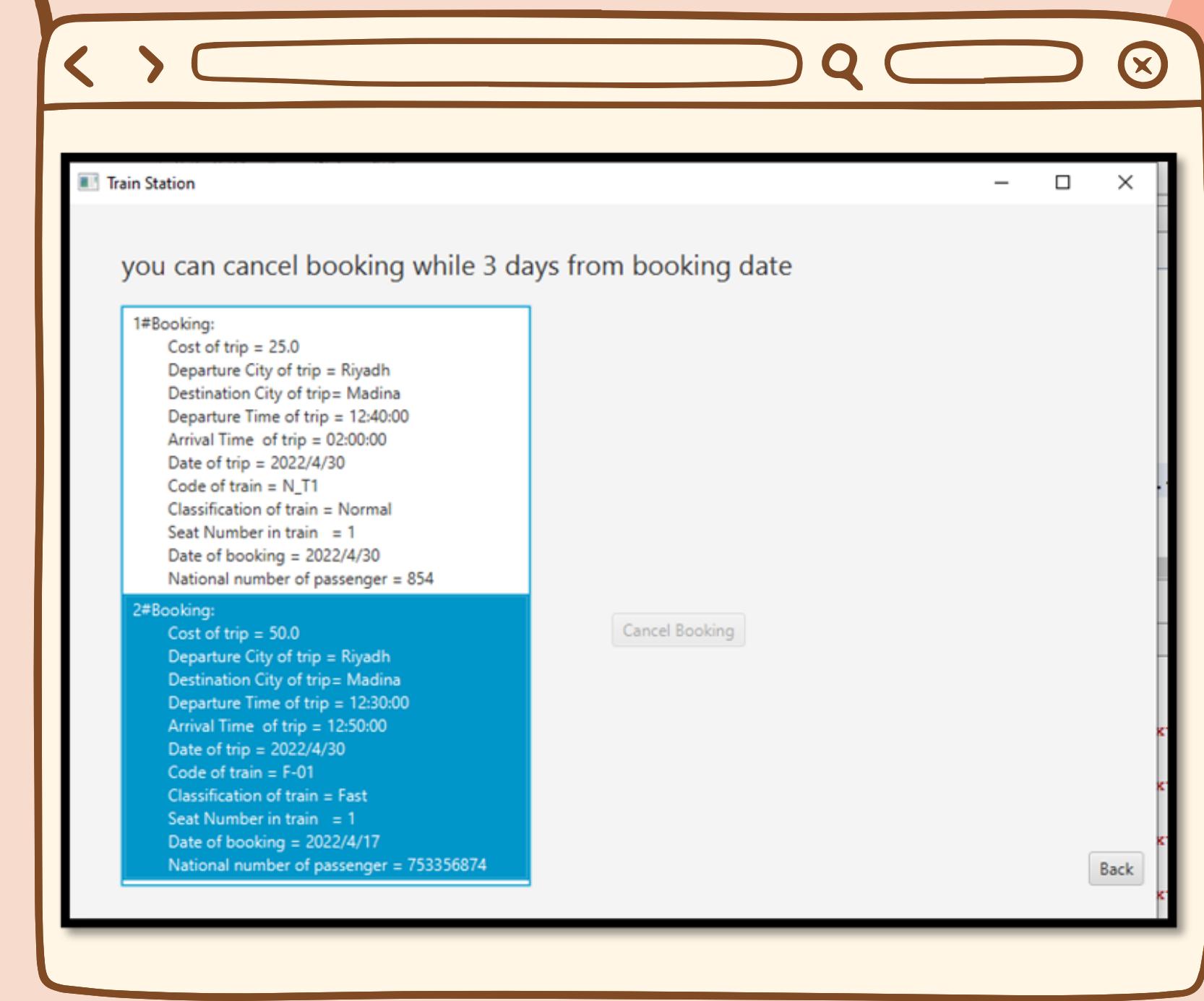
Can browsing new trips



Here he should enter information of passenger and click on complete button to save booking

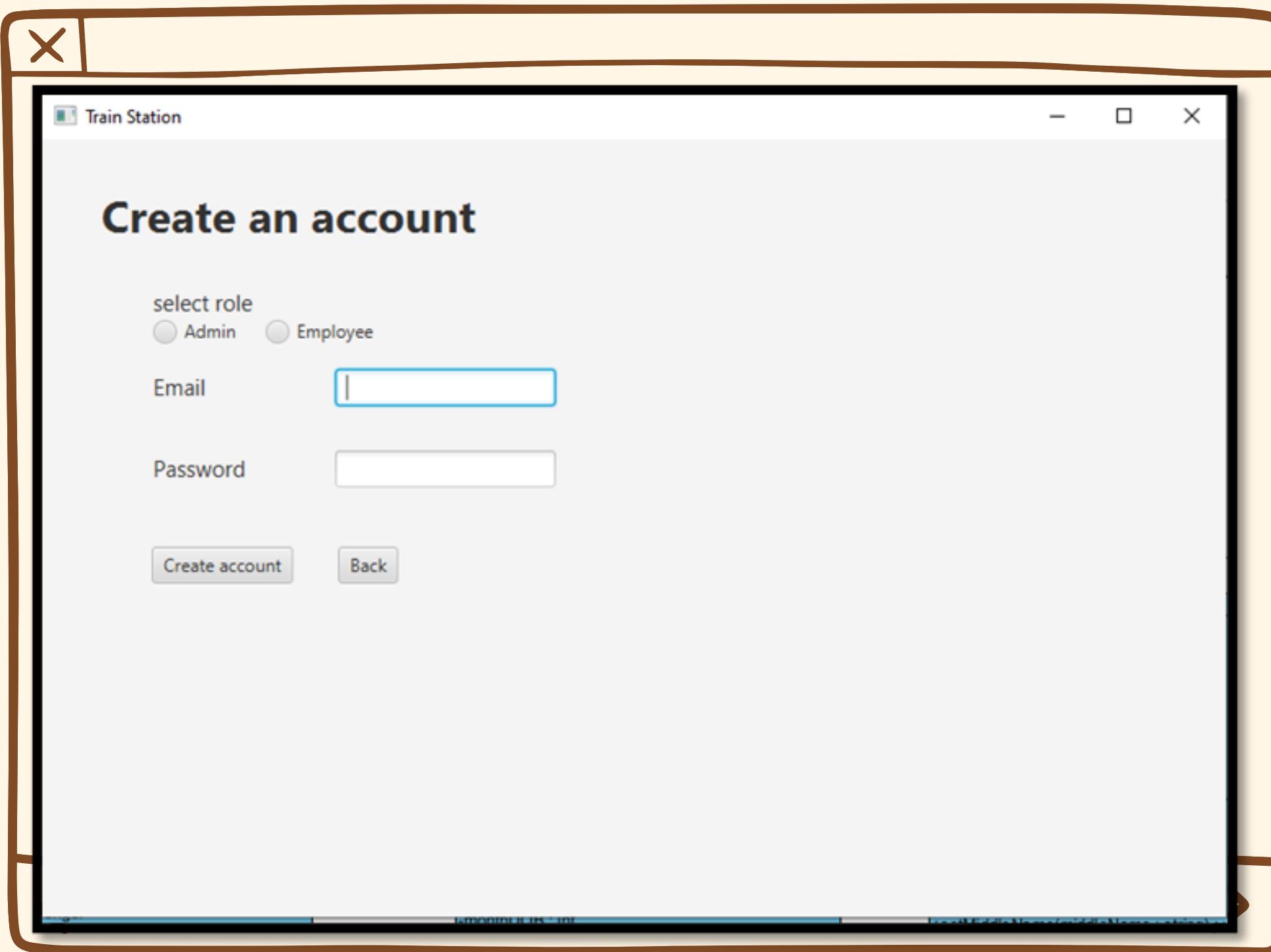


Here by clicking on “show previous bookings”

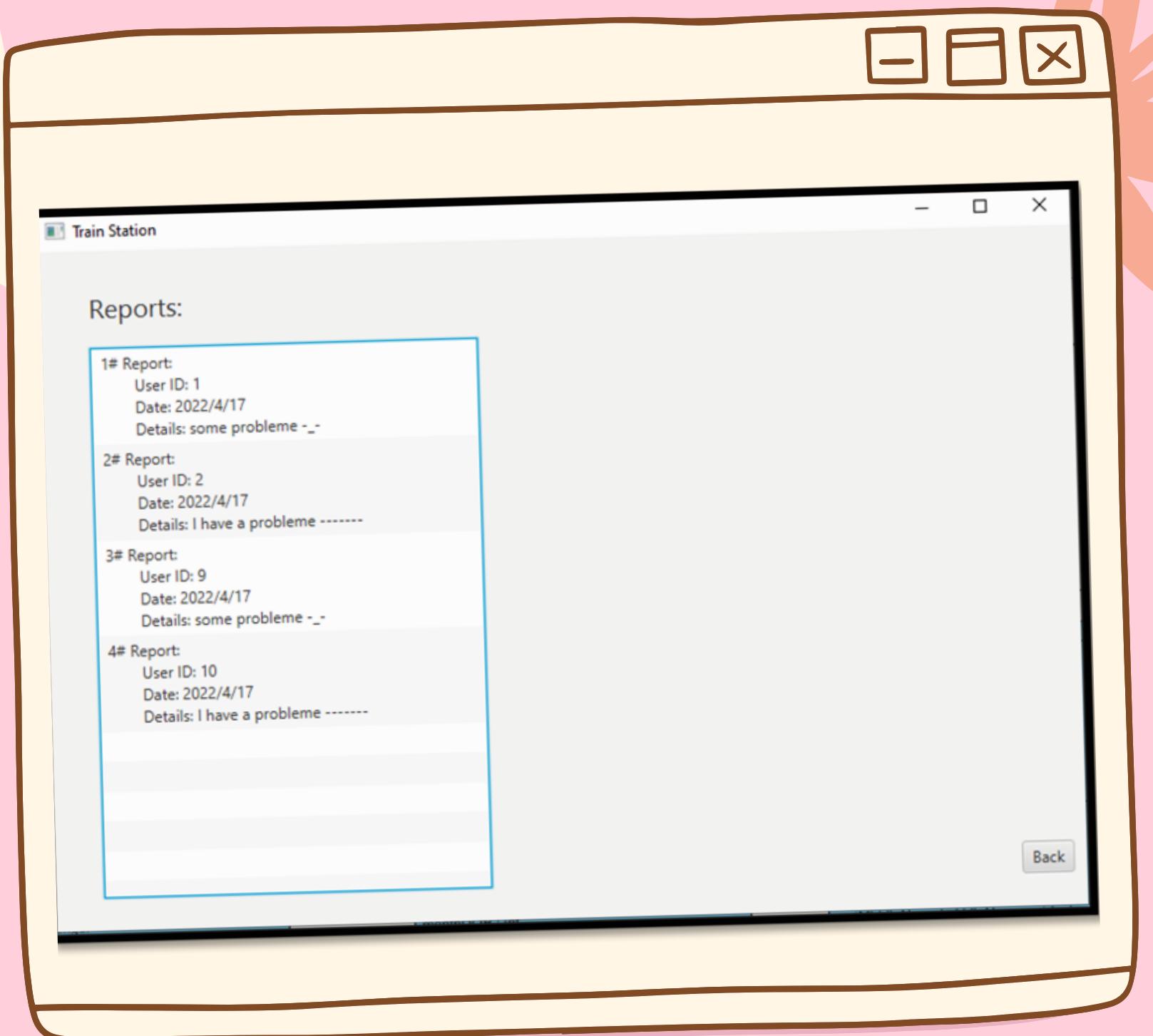


The user can cancel booking any trip just in while 3 days or he cannot.

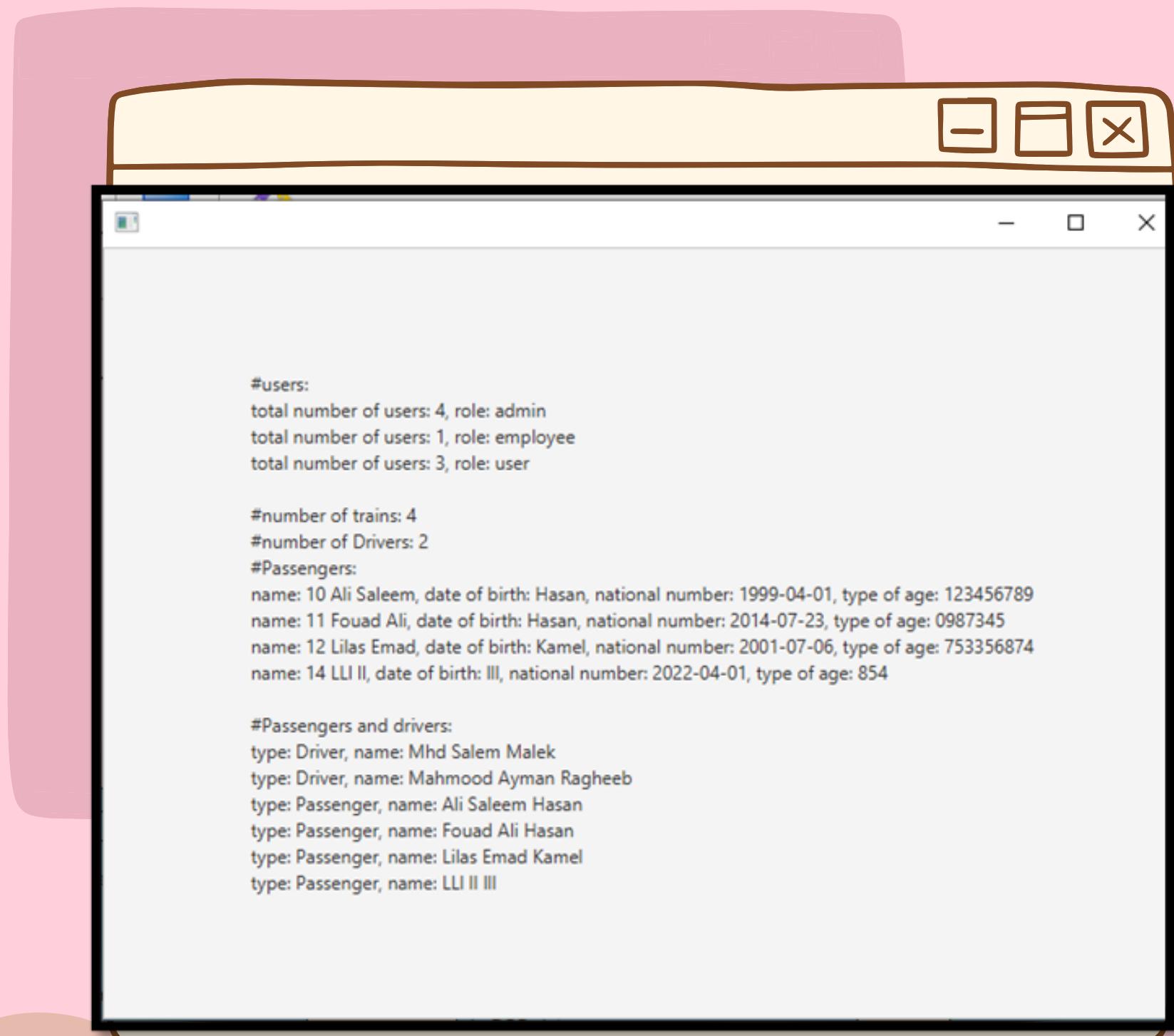
# In the admin interface:



# View reports button



# STATISTICS BUTTON



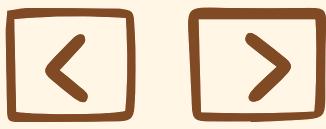
# part Two

# DB

# Project Idea

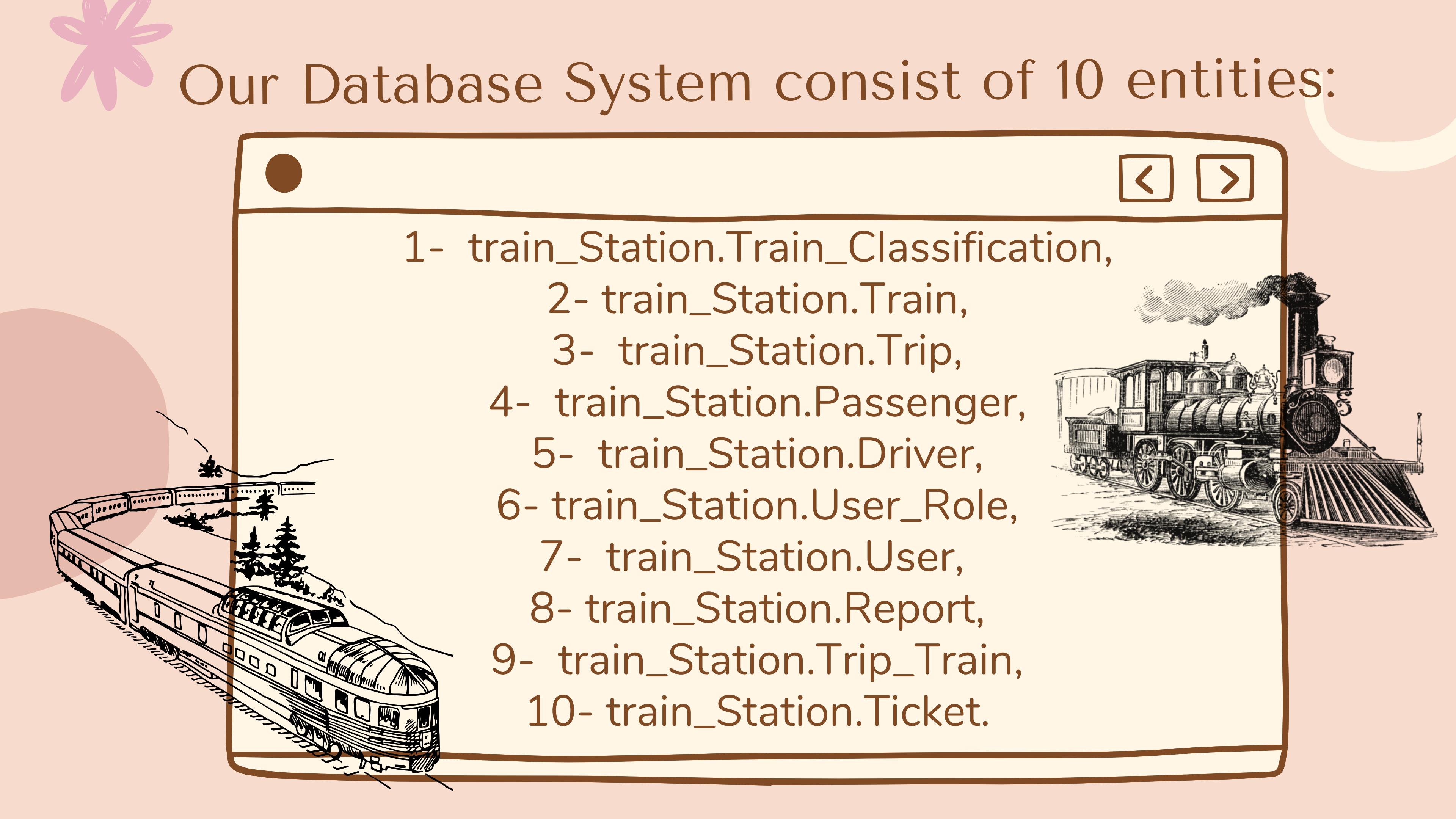


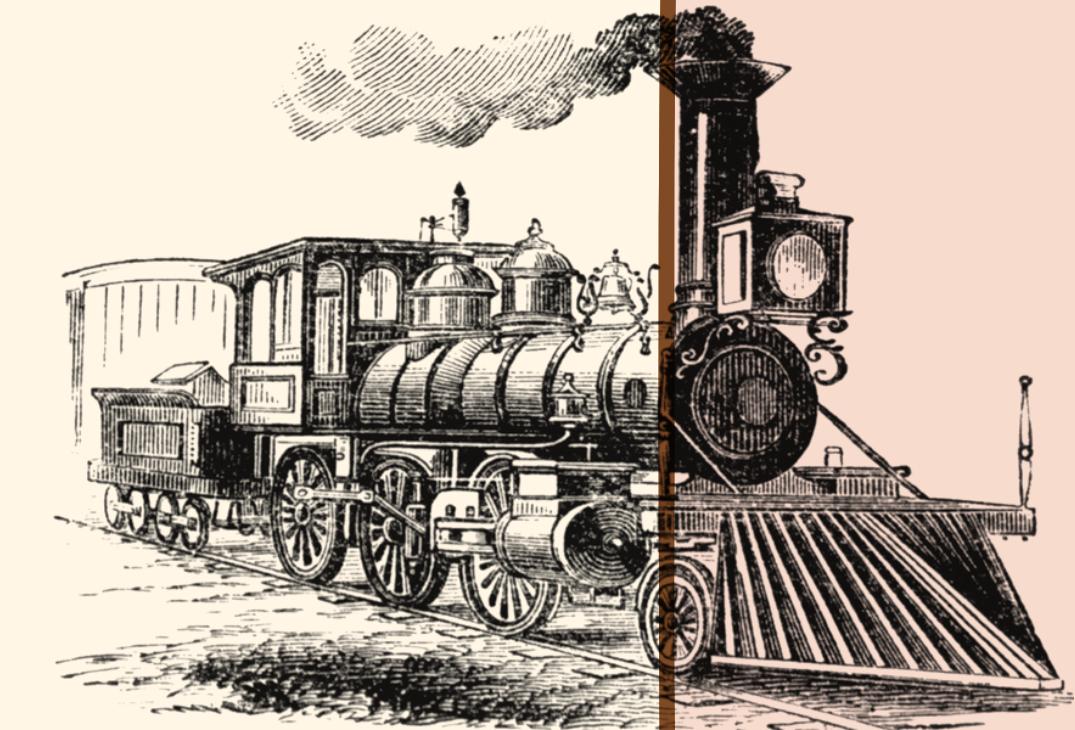
In our project, we will design a database, and our system will deal with train station reservations in the Kingdom of Saudi Arabia. Therefore, we decided the following: The system allows the administrator to receive reservation requests from the client and store their reservation requests and information in the system.



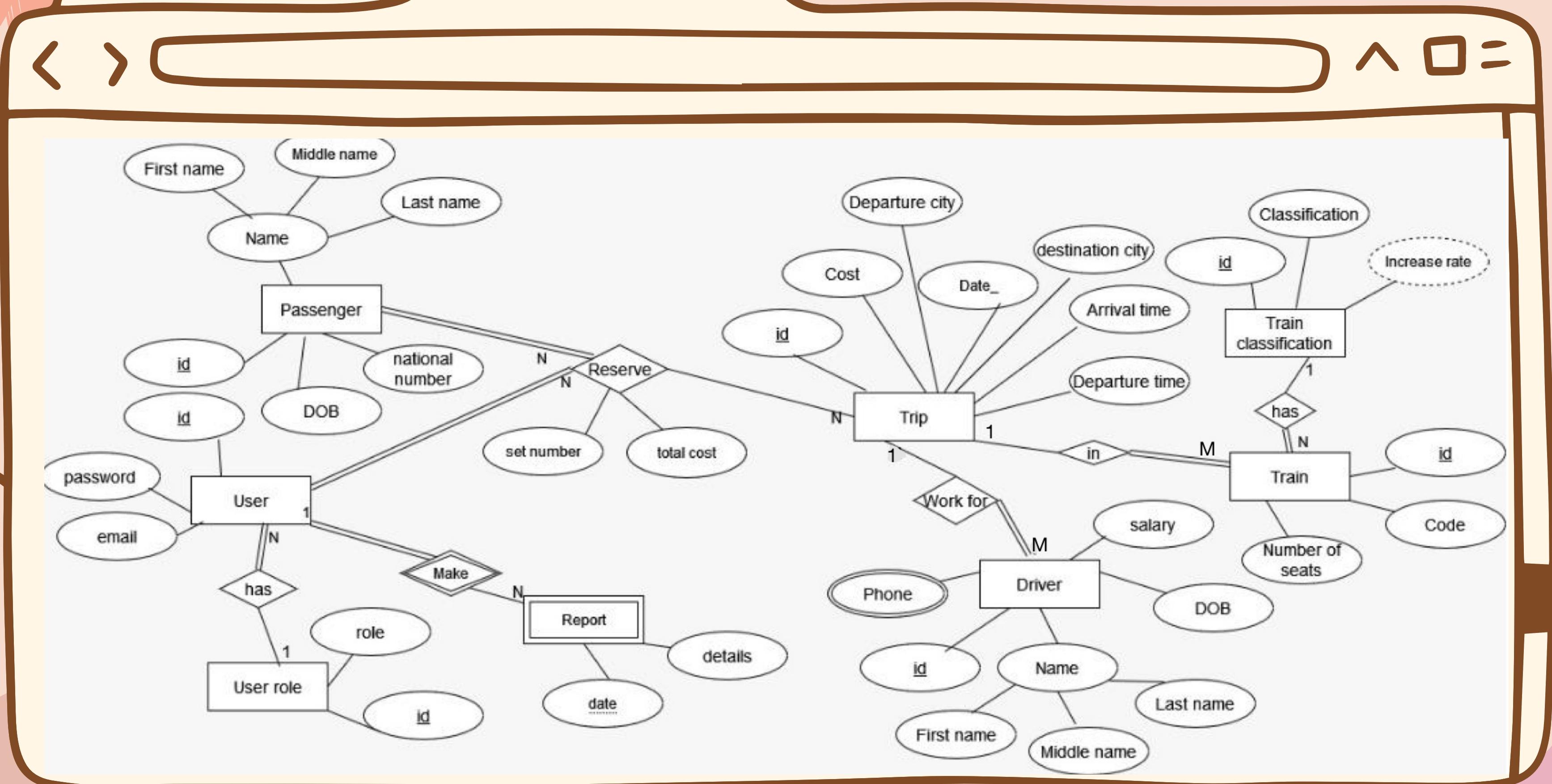


# Our Database System consist of 10 entities:

- 
- 1- train\_Station.Train\_Classification,
  - 2- train\_Station.Train,
  - 3- train\_Station.Trip,
  - 4- train\_Station.Passenger,
  - 5- train\_Station.Driver,
  - 6- train\_Station.User\_Role,
  - 7- train\_Station.User,
  - 8- train\_Station.Report,
  - 9- train\_Station.Trip\_Train,
  - 10- train\_Station.Ticket.

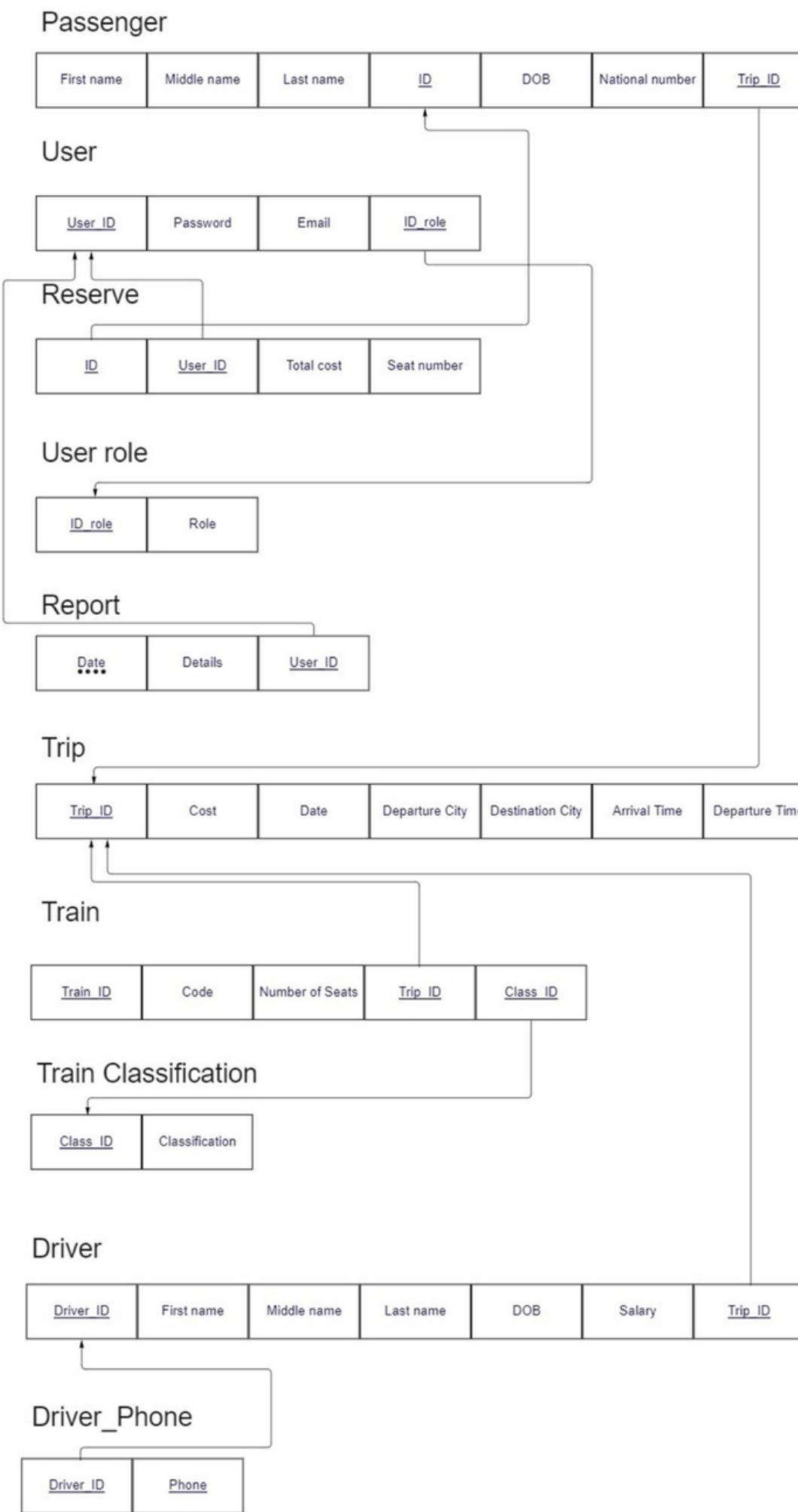
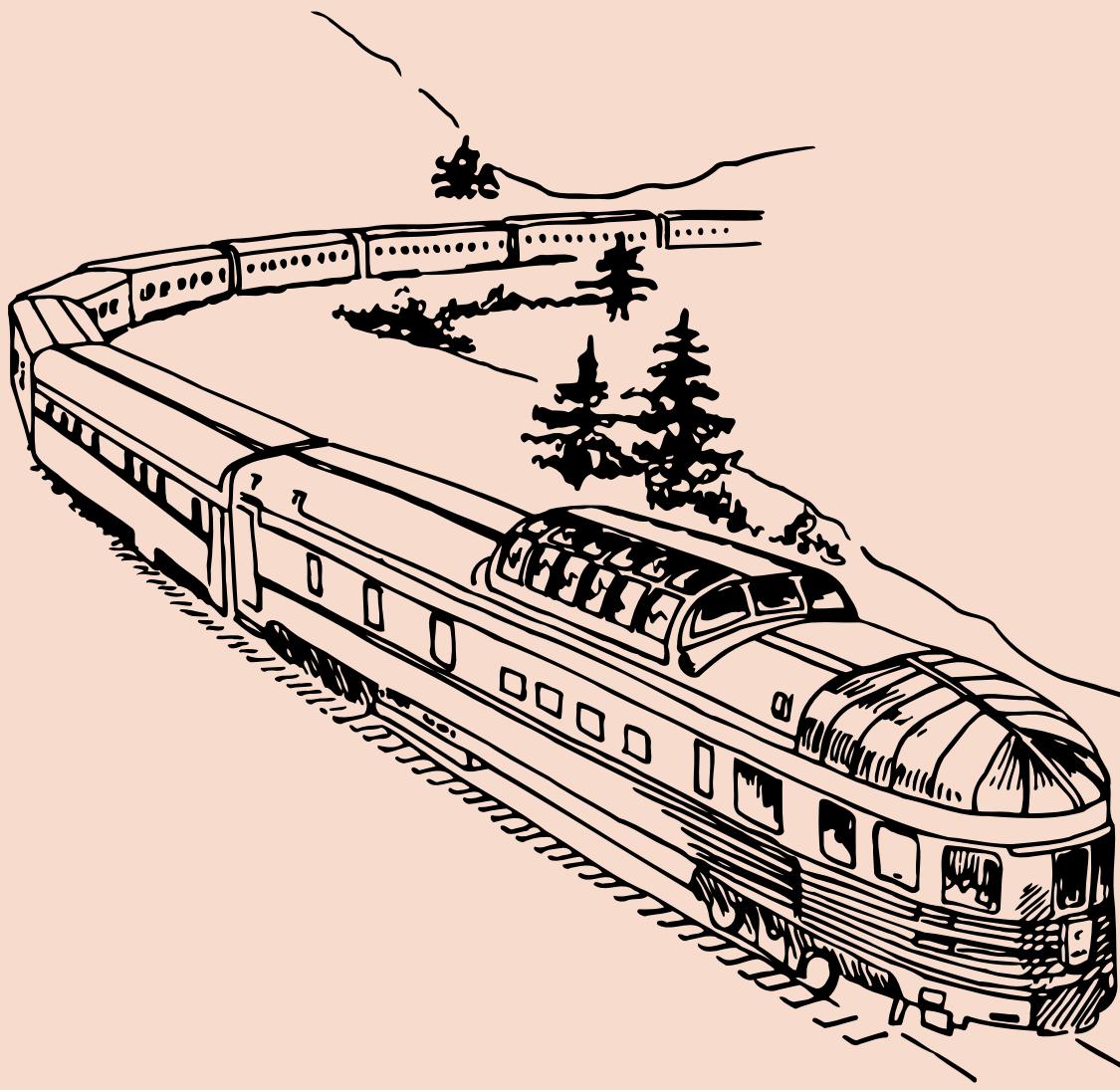


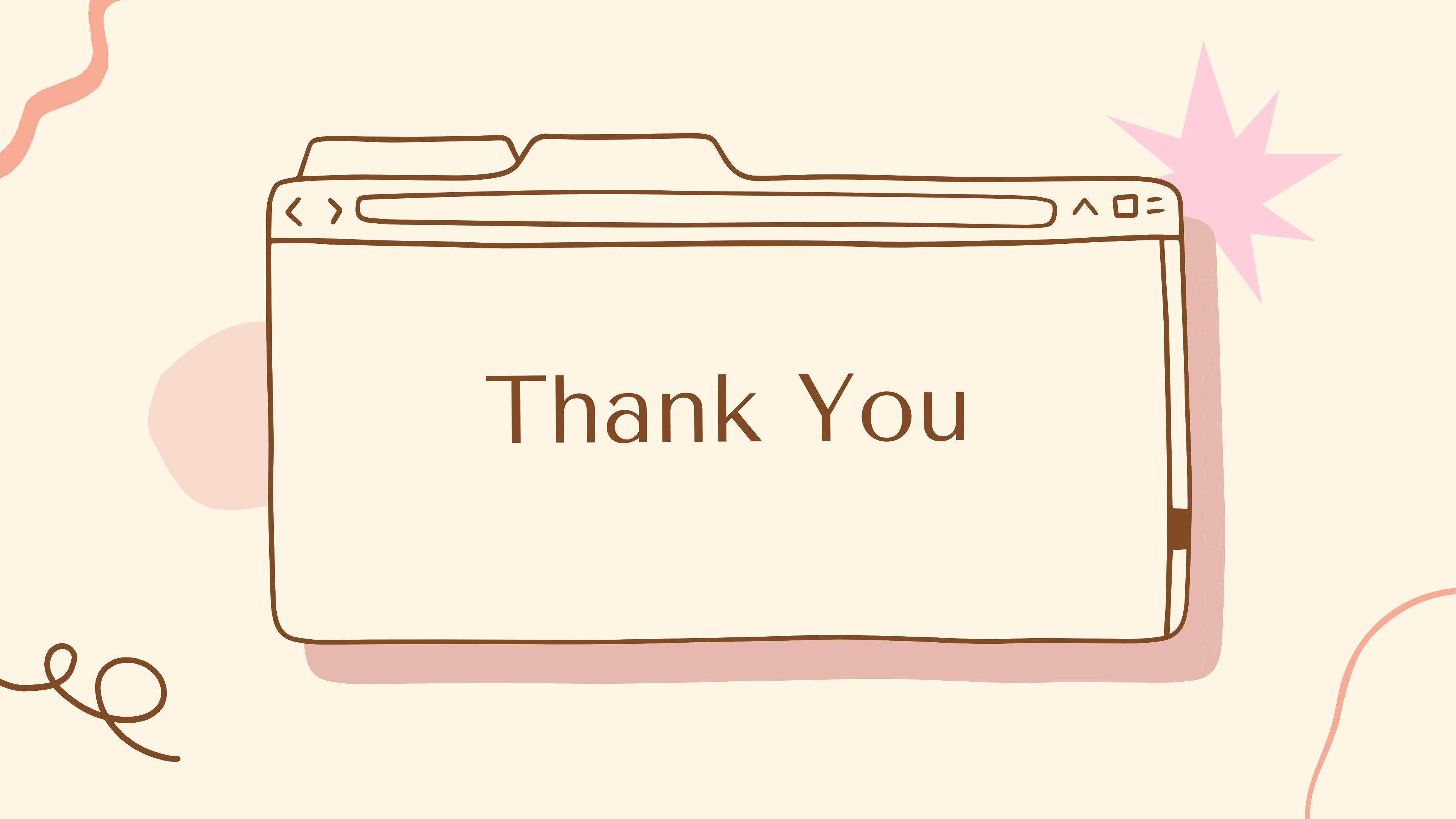
# ERD model:



# Relational schema:

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Thank You