INTRODUCTION

The idea of this project has stemmed from the need for simple travel solutions. Buses are the most commonly used forms of travel in India, be it within a city or intra-city. In fact, buses are sometimes the only form of transportation available to reach the remote parts of India.

This bus reservation system is a user-friendly, menu driven program, which is designed to book the tickets for a bus by providing the customers with the best bus transportation services from the comforts of their homes and offices. It is an interactive and interesting program which guides the user throughout with popup texts hence making it close to real life booking system.

It is done with the help of Python-SQL connectivity. Tables are created at the back end in SQL and the front end consists of functions in Python.

When the program is executed, the person operating is first asked if he is an admin or a user. If admin is entered, he has to login. Only if he enters a correct username and password, the admin menu is shown. If user is entered, 'Welcome to Slide Travels' appears on the screen and the menu is directly displayed. The user details are stored and read from text file, while the admin usernames and passwords are stored and read from csv file.

Admin Details (Registered):

USERNAME	PASSWORD
AkaashAhuja132_slide	7W54rk
BhavnaReddy295_slide	ngUH5a
SalmanShah120_slide	3N5uuK
MariamThomas706_slide	ZuCN4h
SharwanandPatel464_slide	6MnCPq
AvniSingh567_slide	sPDF2K
RahmanAkhtar338_slide	MaNSd2
BradleyAlfonso451_slide	dAk4VY
FatimaAbdullah608_slide	Cg8bEF
TrishaIyengar324_slide	yMe3jR

Admin Menu:

1. View all bus details: The admin can view the details of all buses including bus id, bus name, start and end locations, duration, departure, arrival, and price.
2. Change bus details: The admin can change the locations, timings, duration, or ticket price.
3. Add a bus: The admin can add a new bus to the list of existing buses.
4. Delete a bus: The admin can delete a bus from the list of existing buses.
5. View user details: The admin can view all the details of users i.e. their name, phone number, user-id, seat number and bus number.

User Menu:

1. View all buses: The user can view the details of all buses so that he can book/reserve a seat in a bus as required.
2. Check availability of seats: The user can check how many seats and which seats are available in a bus, by entering the bus number.
3. Book tickets: The user can book tickets/reserve seats in a bus. He is asked to enter name, phone number and email-id. The seat is then reserved, and the user is provided with a unique id.
4. View tickets: The user can view his tickets using the unique user-id. If he hasn't booked a ticket yet, an appropriate error message is shown.
5. Cancel tickets: The user can cancel his tickets using the unique user-id provided to him.
6. About company: Details about the company-SLIDE TRAVELS, is displayed to the user.

Concepts used:

- Text files and CSV files
- User-defined functions
- Built-in functions
- Loops (for, nested for, while)
- If-else and elif statements
- Jump statements (break, continue and pass)
- Python-Sql connectivity
- Other libraries and modules (csv and mysql.connector)