GO SCHOOL ADVANCED ASSIGNMENT Khairal Fazil

The application is a Limo Booking service, where the users can book limousines at different times slots to bring them to their preferred destination.

Features

Login system

➢ Users can login to view their personal data and bookings
➢ New users can sign up and create their individual profiles

Core features

➢ View made bookings
➢ Make new booking
  ▪ Collects user input and makes a new booking
    • User gets confirmation and Booking ID on successful booking
➢ Modify booking
  ▪ Users will input the booking ID which pulls up the booking
  ▪ A list of different fields to change will be given
➢ Delete booking
  ▪ Users can delete their bookings using the Booking ID provided

Admin Features

➢ View and delete bookings
➢ View and delete sessions
➢ View and delete Users along with all the bookings linked to user

Application Design Overview

This is a client-server web application. The server holds and routes the data requested by the client. Html/Templates were used in creating the webpages for flexibility in designing the static pages.

Files Layout

➢ Main.go
  • Holds server and routing functions
➢ Bookings.go
  • Code for the booking linked list
  • Initializes the preloaded Data
  • Functions which pertain to the linked list (e.g. newBooking, deleteBooking)
➢ Cars.go
  • Code for each car array
➢ Users.go
  • Code for User structs and user map
  • Functions which pertain to the user map(e.g. newBooking, deleteBooking)
➢ Functions.go
  • Functions that do not fall into the other categories

- adminFeatures.go
  - holds code for admin pages
- userFeatures.go
  - holds code for user pages

Error Handling

Errors from users are captured and used with IF statements to prompt users for the correct data input. In case of panics, recovery is in place to display error before closing program.

Concurrency

Go routines were used in the delete functions to concurrently delete from the different arrays and slices

INSTRUCTIONS

User login info (case-sensitive)

- Username: khai
- Password: superpassword

Admin login info

- Username: admin
- Password: password

For testing, admin login can be accessed from the login page