package main

import (

    "GO-WORKSPACE/helper"

    "fmt"

    "strings"

)

const conferenceTickets int = 50

var conferenceName = "Go Conference"

var remainingTickets uint = 50

var bookings = []string{}

func main() {

    greetUsers()

    for {

        firstName, lastName, age, email, userTickets := getUserInput()

        isValidName, isValidAge, isValidEmail, isValidTicketNumber := helper.ValidateUserInput(firstName, lastName, age, email, userTickets)

        if isValidName && isValidAge && isValidEmail && isValidTicketNumber {

            bookTicket(firstName, lastName, email, userTickets)

            firstNames := getFirstName()

            fmt.Printf("The First names of bookings are: %v\n", firstNames)

            if remainingTickets == 0 {

                // end program

                fmt.Println("Our conference is booked out. Come back next year.")

                break

            }

        } else {

            if !isValidName {

                fmt.Println("first name or last name you entered is to short")

            }

            if !isValidAge {

                fmt.Printf("According to the age you entered, you're not allowed to attend %v\n", conferenceName)

            }

            if !isValidEmail {

                fmt.Println("Email Address is incorrect, Try Again!")

            }

            if !isValidTicketNumber {

                fmt.Printf("Insufficient number of tickets, Only %v tickets are available\n", remainingTickets)

            }

        }

    }

}

func greetUsers() {

    fmt.Printf("Welcome to %v booking application\n", conferenceName)

    fmt.Printf("We have total of %v tickets and %v are still available.\n", conferenceTickets, remainingTickets)

    fmt.Println("Get your tickets here to attend")

}

func getFirstName() []string {

    firstNames := []string{}

    for \_, bookings := range bookings {

        var names = strings.Fields(bookings)

        firstNames = append(firstNames, names[0])

    }

    return firstNames

}

func getUserInput() (string, string, uint, string, uint) {

    var firstName string

    var lastName string

    var age uint

    var email string

    var userTickets uint

    fmt.Println("Enter your first name: ")

    fmt.Scan(&firstName)

    fmt.Println("Enter your last name: ")

    fmt.Scan(&lastName)

    fmt.Println("Enter your age: ")

    fmt.Scan(&age)

    fmt.Println("Enter your email address: ")

    fmt.Scan(&email)

    fmt.Println("Enter the number of tickets: ")

    fmt.Scan(&userTickets)

    return firstName, lastName, age, email, userTickets

}

func bookTicket(firstName string, lastName string, email string, userTickets uint) {

    remainingTickets = remainingTickets - userTickets

    bookings = append(bookings, firstName+" "+lastName)

    fmt.Printf("Thank you %v %v for booking %v tickets. You will receive a confirmation email\n", firstName, lastName, userTickets)

    fmt.Printf("%v tickets remaining for %v\n", remainingTickets, conferenceName)

}

*package* helper  
  
*import* "strings"  
  
*func* ValidateUserInput(firstName string, lastName string, age uint, email string, userTickets uint, remainingTickets uint) (bool, bool, bool, bool) {  
 isValidName := len(firstName) >= 2 && len(lastName) >= 2  
 isValidAge := age >= 18  
 isValidEmail := strings.Contains(email, "@")  
 isValidTicketNumber := userTickets > 0 && userTickets <= remainingTickets  
  
 *return* isValidName, isValidAge, isValidEmail, isValidTicketNumber  
}