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package main

import (
    "bufio"
    "fmt"
    "os"
)

type Student struct {
    FirstName string
    LastName  string
}

func main() {
    studentMap := make(map[string]Student)
    scanner := bufio.NewScanner(os.Stdin)

    fmt.Println("Welcome to the Student Information Management System")

    for {
        fmt.Println("\nSelect an option:")
        fmt.Println("1. Store student information")
        fmt.Println("2. Look up student information")
        fmt.Println("3. Exit")
        fmt.Print("Enter your choice: ")

        scanner.Scan()
        choice := scanner.Text()

        switch choice {
            case "1":
                storeStudentInfo(scanner, studentMap)
            case "2":
                lookUpStudentInfo(scanner, studentMap)
            case "3":
                fmt.Println("Exiting the program.")
                return
            default:
                fmt.Println("Invalid choice. Please select a valid option.")
        }
    }
}

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func storeStudentInfo(scanner *bufio.Scanner, studentMap map[string]Student) {
    fmt.Print("Enter your school ID name: ")
    scanner.Scan()
    idName := scanner.Text()

    if idName == "" {
        fmt.Println("Please enter a valid school ID name.")
        return
    }

    firstName, lastName := getNames(scanner)

    if existingStudent, found := studentMap[idName]; found {
        if firstName == existingStudent.FirstName && lastName ==
existingStudent.LastName {
            fmt.Printf("Student '%s %s' information already stored!\n", firstName,
lastName)
        } else {
            fmt.Printf("School ID name '%s' already stored for a different student.\n",
idName)
        }
    } else {
        studentMap[idName] = Student{FirstName: firstName, LastName: lastName}
        fmt.Printf("Student information stored for '%s %s' with school ID name '%s'.\n",
firstName, lastName, idName)
    }
}

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func lookUpStudentInfo(scanner *bufio.Scanner, studentMap map[string]Student) {
    fmt.Print("Enter the school ID name, first name, or last name to look up: ")
    scanner.Scan()
    lookupInput := scanner.Text()

    found := false
    for idName, student := range studentMap {
        if idName == lookupInput || student.FirstName == lookupInput ||
student.LastName == lookupInput {
            fmt.Printf("Student information for '%s':\n", lookupInput)
            fmt.Printf("School ID: %s\n", idName)
            fmt.Printf("First Name: %s\n", student.FirstName)
            fmt.Printf("Last Name: %s\n", student.LastName)
            found = true
            break
        }
    }
}

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    }

    if !found {
        fmt.Printf("No student information found for '%s'.\n", lookupInput)
    }
}

func getNames(scanner *bufio.Scanner) (string, string) {
    fmt.Print("Enter your first name: ")
    scanner.Scan()
    firstName := scanner.Text()

    fmt.Print("Enter your last name: ")
    scanner.Scan()
    lastName := scanner.Text()

    return firstName, lastName
}
```