Kishkinda University of Ballari

Department of Computer Science and Engineering

KISHKINDA
UNIVERSITY
2023

Project Name:International student visa facilitator

BATCH NO : 10

Team members:

- *T.kavya*
- *Lakshana*
- *Sirisha.k*
- *Savita.G.S*
- *Renuka*

INTRODUCTION

- *This python script serve as a management system for student visa record using MySQL.*
- *By leveraging the mysql.connector library , it enables visa officers to perform essential databases operation.*
- *This functionality streamlines the managements of student data,making it easier for officers to handle visa applications* efficiently.

- *CREATE(Database&Table):*

A. Database Creation:The createDB method attempts to creat a new database named intravisa.if the database already exists or another error occurs,it catches the expection and informs the user.

B. Table Creation:The addStudentRecord method defines a table called stuDet with coloums for student attributes such as name,visaID,citizenship,course,and status.

Key Points:

- *Initializes a new database and table for storing student records.*
- *Handles exceptions to provide user-friendly feedback on creation status.*

```
def createDB():
        try:
            mycursor.execute('create database intrvisa')
            print('DB created succefully')
        except Exception:
            print('Not created successfully')
```

```
 def addStudentRecord():
        try:
            mycursor.execute('create table stuDet(name varchar(20),vid int(10), citizen varchar(20), course 
varchar(10), status varchar(10))')
            print('Created Table  succefully')
        except Exception:
            print('issue while creating table')
        else:
            print('No issues working fine')
```

2. *Read : -*

- *The readStudentRecord method retrieves a student record based on the unique visa ID (vid).*
- *It executes a SELECT statement to fetch the relevant data and displays it to the user. If no record is found, an appropriate message is displayed.*

Key Points: -

- *Enables retrieval of specific student information based on their visa ID. - Uses parameterized queries to prevent SQL injection and improve security. python*

```
def readStudentRecord(vid):
        try:
            # Correct SQL syntax for SELECT statement
            sql = 'SELECT * FROM stuDet WHERE vid = %s'
            mycursor.execute(sql, (vid,))

            # Fetch one result
            record = mycursor.fetchone()

            if record:
                print('Read successfully:', record)
            else:
                print('Could not read, no record found.')
        except Exception as e:
            print('Issue while reading:', e)
        else:
            print('No issues, working fine.')
```

3. Update:

- *The UpdateStudentRecord method allows for modifying existing records.*
- *IT updates fields such as name,citizenship,course,and status where the visa ID matches.*

Key Points:

- *Facilitates updates to students records,ensuring the data remains current.*
- *Confirm successful updates or indicates if no changes were made due to a non-existing visaID.*

Code:

```
def updateStudentRecord(name, vid, citizen, course, status):
        try:
            sql = 'UPDATE stuDet SET name = %s, citizen = %s, course = %s, status =
%s WHERE vid = %s'
            mycursor.execute(sql, (name, citizen, course, status, vid))
            mydb.commit()
            if mycursor.rowcount > 0:
                print('Updated successfully')
            else:
                print('No records were updated (check if the vid exists)')
        except Exception as e:
            print('Issue while updating:', e)
        else:
            print('No issues working fine')
```

4. DELETE:

- *The DeleteStudentRecord method allows for the removal of students records based on the visa ID.it executes a DELET query and checks if any records were deleted,providing the user with appropriate feedback.*

Key Points:

- *Supports the removal of outdated or necessary students records.*
- *Informs the user whether the deletion was successful or if no matching records were found.*

```
def deleteStudentRecord(vid):
        try:
            sql = 'DELETE FROM stuDet WHERE vid = %s'
            mycursor.execute(sql, (vid,))
            mydb.commit()

            if mycursor.rowcount > 0:
                print('Deleted successfully')
            else:
                print('No records were deleted (check if the vid exists)')
        except Exception as e:
            print('Issue while deleting:', e)
        else:
            print('No issues; working fine')
```

CONCLUSION:

- *This script effectively demonstates a simple yet functional student visa record management system using python and MySQL.*
- *The structured approach not only sipmlifies data handling but also enhance the overfall workflow in processing visa applications.*
- *Future enhancements could include features such as user aunthentication,data validation,and advance querying capabalities to further improve the system's functionality and security.*

thank you