OBE IMPLEMENTATION: UNIVERSITY SETTING

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A report for the CS307:Mobile Application Development using JAVA



SRM UNIVERSITY AP::AMARAVATI INDEX

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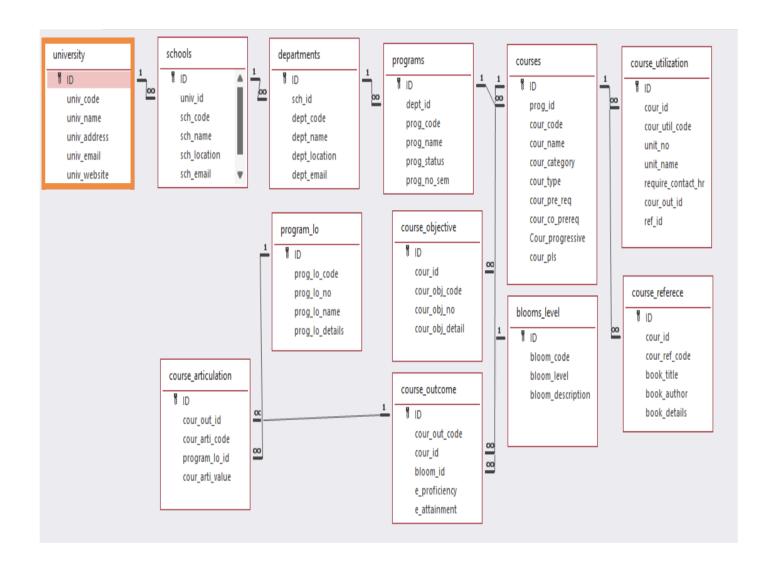
Introduction

Our University (herewith considered as SRM-AP) is going to implement OBE(Outcome Based Education) in their university and you are assigned in the project to develop a CURD(Create, Update, Retrieve and Delete) windows and mobile application using JAVA programming and Android studio for the same.

Project Modules:

- 1.Blooms Level setting
- 2. Program Level Objective Setting
- 3.University
- 4.Schools
- 5.Department
- 6.Programs
- 7.Courses
- 8. Course objective setting
- 9. Course Outcome Setting
- 10. Course Articulation matrix Setting
- 11. Course Utilization Setting
- 12. Course Reference Setting.

Architecture Diagram



Module Description

Module Name: University

Module Description:

This module is used to create, Update, Retrieve, Delete (hereafter known as CURD) details of the module and storing the details in the database table (eg. MySQL).

Programming Details naming conventions to be used:

• class name/activity name:MeenaRashi_University

• Function/method name

o Create: AP22110010310_University_create

o **Update:**AP22110010310_Universityupdate

o **Retrieve:**AP22110010310_University_retrive

o **Delete:**AP22110010310_University_delete

Table details:

Field Name	Data type
id	integer
univ_code	String
univ_name	String
univ_address	String
univ_email	String
univ_website	String

Source Code

```
//javaapp.db

CREATE TABLE university (
   id integer primary key,
   univ_code text,
   univ_name text,
   univ_address text,
   univ_email text,
   univ_website text
```

//UniversityApp.java

```
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
class SQLDB {
```

```
"univ name TEXT, " +
class MeenaRashi University {
JLabel.CENTER);
```

```
new JLabel("University Website:")
```

```
for (JButton button: buttons) {
```

```
showOperationResult("CREATE Operation", "University created
successfully!", true);
e.getMessage(), false);
updated successfully!", true);
found with code: " + code, false);
e.getMessage(), false);
```

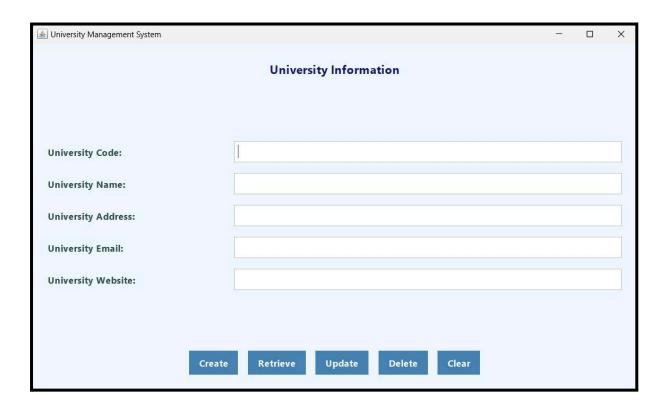
```
private void AP22110010310 University retrive() {
JOptionPane.WARNING MESSAGE);
getUniversityDetails(rs), true);
found with code: " + code, false);
e.getMessage(), false);
to delete",
JOptionPane.WARNING MESSAGE);
```

```
deleted successfully!", true);
found with code: " + code, false);
e.getMessage(), false);
JOptionPane.WARNING MESSAGE);
```

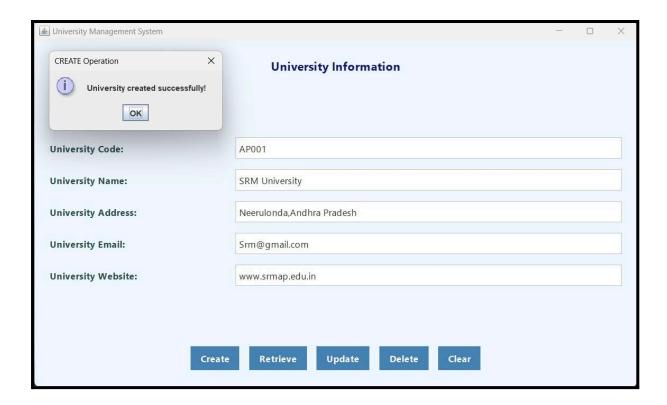
```
"Code: " + rs.getString("univ code") + "\n" +
JOptionPane.INFORMATION MESSAGE : JOptionPane.ERROR MESSAGE);
public class UniversityApp {
SQLDB.connect("C:\\Users\\viswa\\OneDrive\\Desktop\\Apps\\javaapp.db");
application: " + e.getMessage(),
JOptionPane.ERROR MESSAGE);
```

Screen Shots

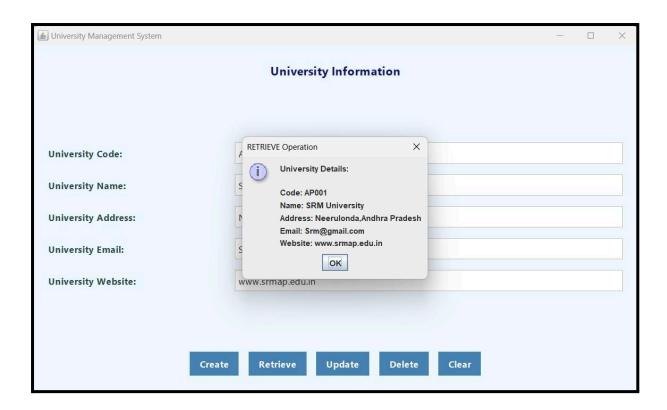
//Main



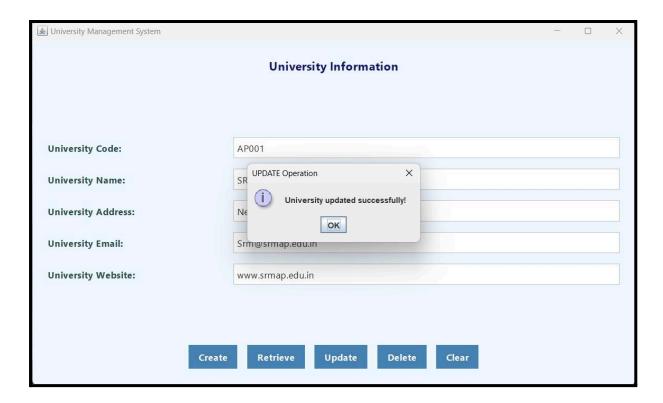
//Creation

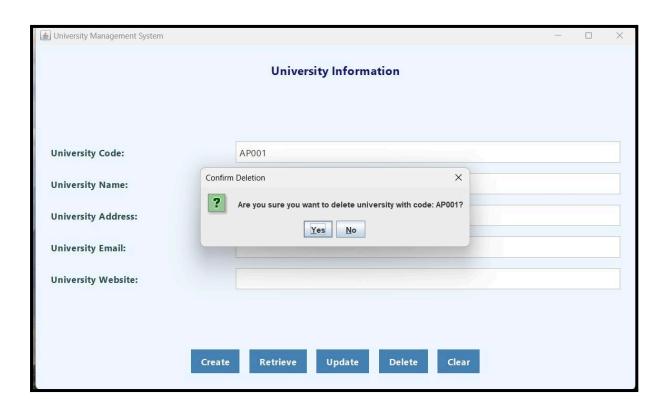


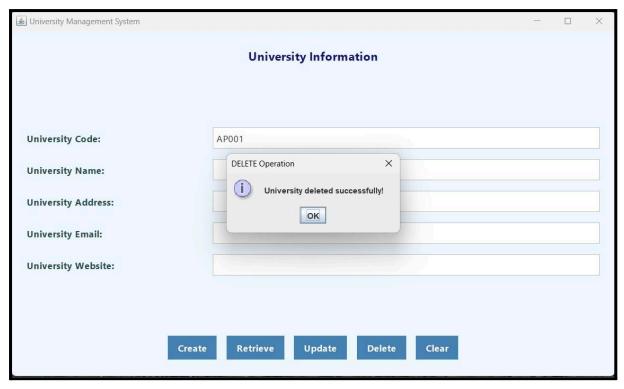
//Retrieve



//Updation







Conclusion

The "University Module" developed as part of the OBE (Outcome-Based Education) Implementation project successfully demonstrates the use of Java and SQLite in building a functional desktop application with a graphical interface using AWT. This module fulfills the CURD (Create, Update, Retrieve, Delete) operations, allowing users to efficiently manage university information such as code, name, address, email, and website.

Throughout the development process, we applied structured programming practices, adhered to naming conventions, and followed design principles that enhanced both usability and readability. The integration with an SQLite database enabled persistent storage and fast access to records, while the UI components provided an intuitive interface for end-users.

This project not only strengthened our technical skills in Java GUI development and database handling but also gave us practical exposure to software development lifecycles in academic settings. Moving forward, this module can be extended or integrated with other components like Departments and Programs to build a complete OBE management system.