SRM UNIVERSITY AP
Amaravati

OBE Implementation

Module-1:University

Submitted By

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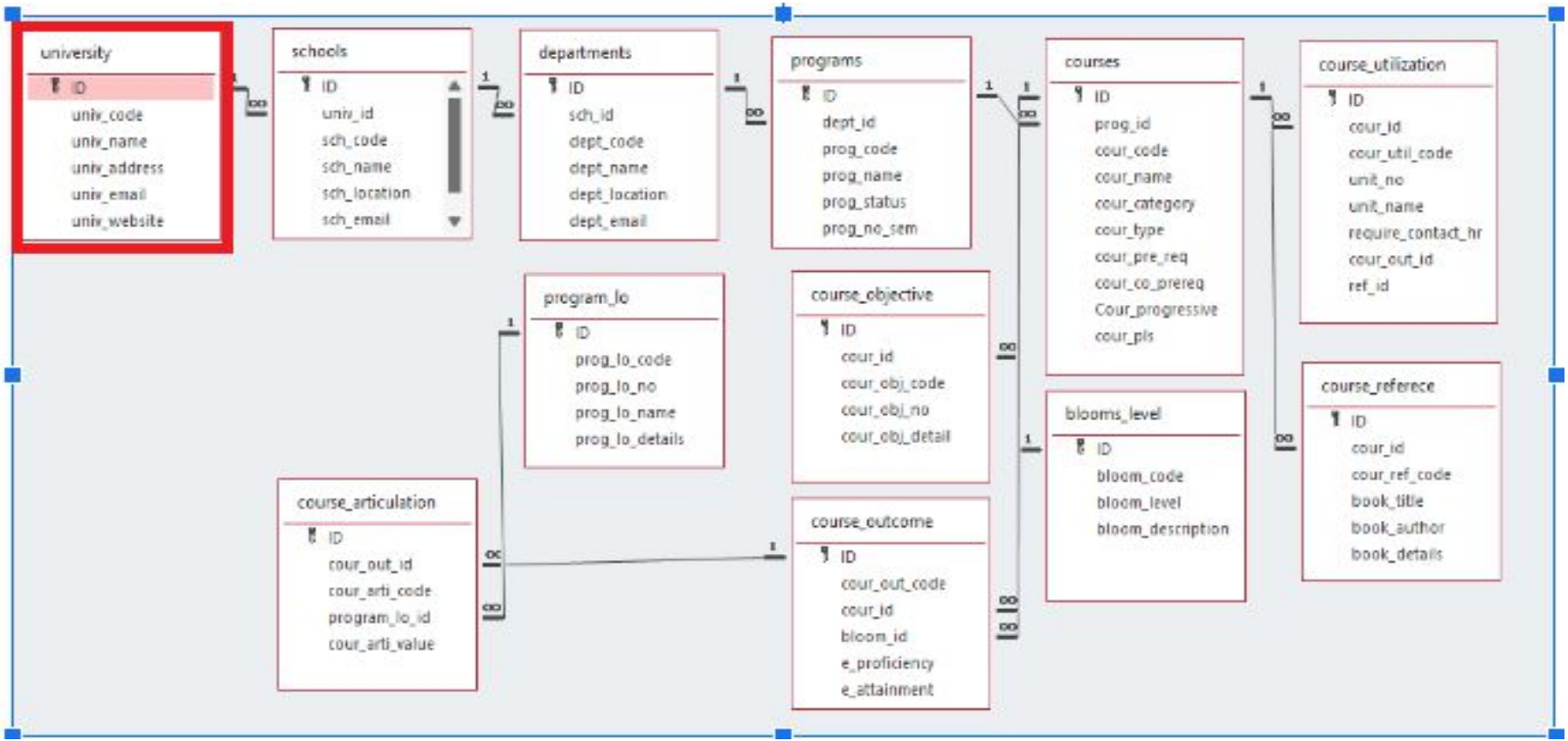
Introduction to Project

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.

Architecture Diagram



Module Description : University Setting

- **Purpose:** Manage university-related data (code, name, address, email, website).
- **Operations:** Supports **Create**, **Retrieve**, **Update**, and **Delete (CRUD)**.
- **Technology:** Built using **Java** and **AWT** for the graphical interface.
- **Database:** Data stored and accessed via **SQLite**.
- **Functionality:** Allows users to add, view, modify, and delete university records.

University Setting:Field/table details

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

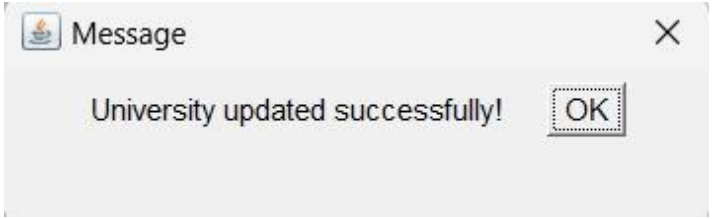
University Setting:Programming Details

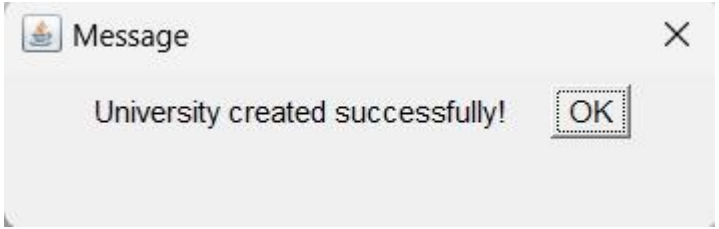
- **File name:**meenarashi_university
- **Function/method name**
  - **Create:**AP22110010310_university_create
  - **Update:**AP22110010310_university_update
  - **Retrieve:**AP22110010310_university_retrive
  - **Delete:**AP22110010310_university_delete

Sample Source Code

```
// Create Operation
public void AP22110010310_university_create() {
    String query = "INSERT INTO university (univ_code, univ_name, univ_address, univ_email, univ_website) VALUES (?, ?, ?, ?, ?)";
    // Execute insert query to add university details to the database
}

// Retrieve Operation
public void AP22110010310_university_retrieve() {
    String query = "SELECT * FROM university WHERE univ_code = ?";
    // Execute select query to fetch university details from the database
}

// Update Operation
public void AP22110010310_university_update() {
    String query = "UPDATE university SET univ_name = ?, univ_address = ?, univ_email = ?, univ_website = ? WHERE univ_code = ?";
    // Execute update query to modify university details in the database
}

// Delete Operation
public void AP22110010310_university_delete() {
    String query = "DELETE FROM university WHERE univ_code = ?";
    // Execute delete query to remove university details from the database
}
```

Sample Screen Shots






```
C:\Users\viswa\OneDrive\Desktop\Apps>sqlite3 javaapp.db
SQLite version 3.49.1 2025-02-18 13:38:58
Enter ".help" for usage hints.
sqlite> .tables
university
sqlite> .headers on
sqlite> .mode column
sqlite> SELECT*FROM university;
id  univ_code  univ_name         univ_address    univ_email     univ_website
--  ---------  -----------------  --------------  -------------  --------------
1   SRM01      SRM University AP  Andhra Pradesh  info@srm.ap    www.srm.ap.edu
2
3   SRM001     SRM                TN              srm@gmail.com  www.srm.com
4   SRM001     SRM                Ap              srm@gmail.com  www.srm.com
sqlite>
```

Conclusion

- The **University Module** enables efficient management of university data (code, name, address, email, and website).
- It supports **CRUD operations** (Create, Retrieve, Update, Delete) through a **Java AWT GUI** and **SQLite database**.
- The module provides a seamless user interface for interacting with the database, ensuring easy management of university records.
- This project demonstrates practical use of **Java** for desktop applications and **SQLite** for data storage, offering a foundation for future enhancements in the OBE (Outcome-Based Education) implementation.

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Thank You