



College of Engineering
Software Engineering Department

SE 416: Mobile Application Development

Fall 2018

Lab 7

SQLITE DATABASE AND CONTENT PROVIDERS

Learning Objectives:

- Create an Android project using SQLite Database and Content Providers
- Understand SQLite persistent data
- Write data in SQLite database
- Add, view, find and delete data

Exercise (10 marks)

STUDENT DATA APP

Requirements Document

Application title: Student Data App

Purpose: The Student Data app gathers data of student and saves them in the database.

Algorithms:

1. The opening screen should ask the user to enter Student's Name, Course, Year Level, and ID. Save these values in the database.
2. When add data button is clicked, data must be added in the database.
3. When view button is clicked, all the data must be displayed.
4. When edit button is clicked, data will be edited using the id.
5. When delete button is clicked, data will be deleted using the id.

Conditions

1. The four buttons add, view, find and delete should be functional.

Here are sample outputs:

Student Data App

Student Name _____

Course _____

Year Level _____

ID _____ Use to Update or Delete

ADD DATA VIEW DATA UPDATE DATA DELETE

Opening Screen

Student Data App

Student Name John Smith

Course SE

Year Level 1st year

ID 1

ADD DATA VIEW DATA UPDATE DATA DELETE

Adding Data

Student Data App

Student Name John Smith

Course SE

Year Level 1st year

ID 1

ADD DATA VIEW DATA UPDATE DATA DELETE

Data Successfully Inserted!

Adding Data

Student Data App

Student Name John Smith

Course SE

Year Level 1st year

ID 1

All Stored Data:

ID: 1

Name: John Smith

Course: SE

Year: 1st year

Viewing Data

Student Data App

Student Name John Smith

Course SE

Year Level 2nd year

ID 1

ADD DATA VIEW DATA UPDATE DATA DELETE

Successfully Updated Data!

Updating Data

Student Data App

Student Name John Smith

Course SE

Year Level 2nd year

ID 1

All Stored Data:

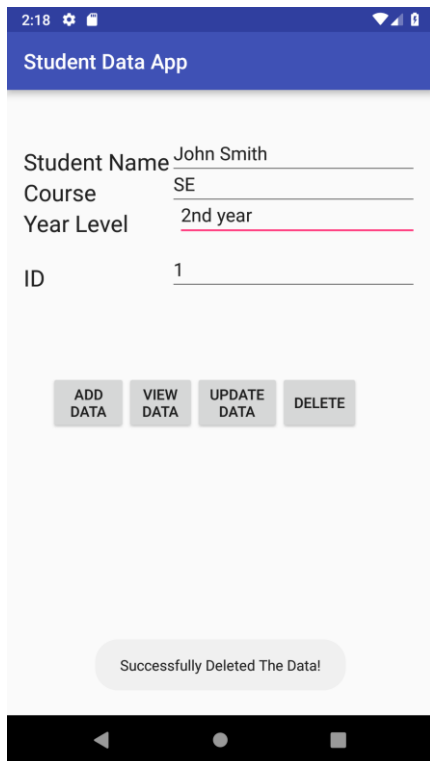
ID: 1

Name: John Smith

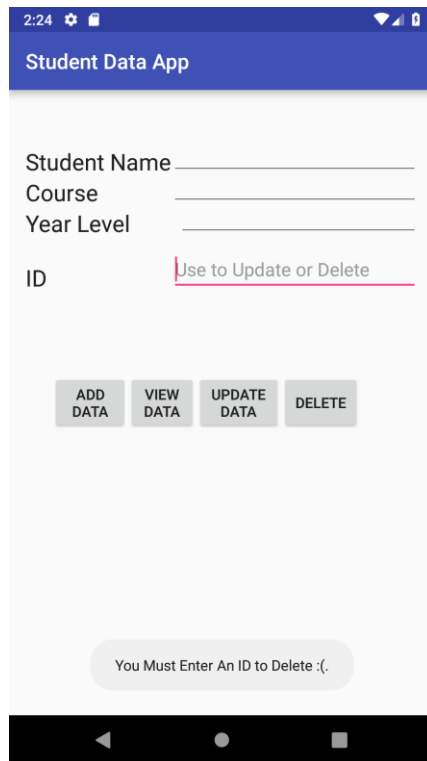
Course: SE

Year: 2nd year

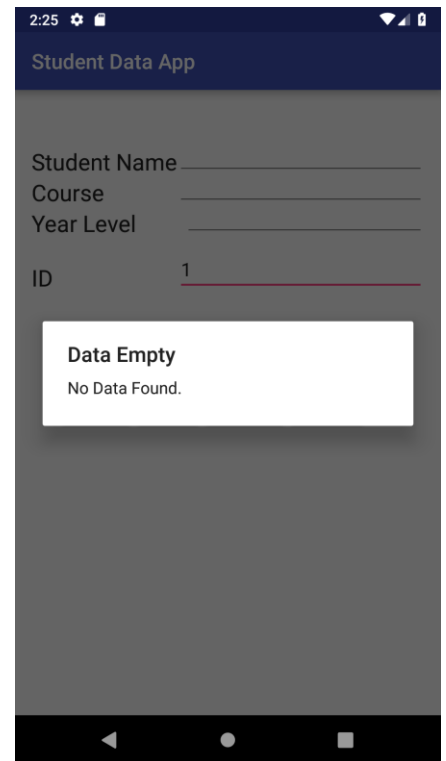
Viewing Updated Data



Deleting Data



Deleting Data without an ID



Viewing Empty Data