

Computer Science 316

iOS App Development

Lab Assignment #6

Due: Friday, March 7, 2025 (Before midnight)

Part I: [45%]

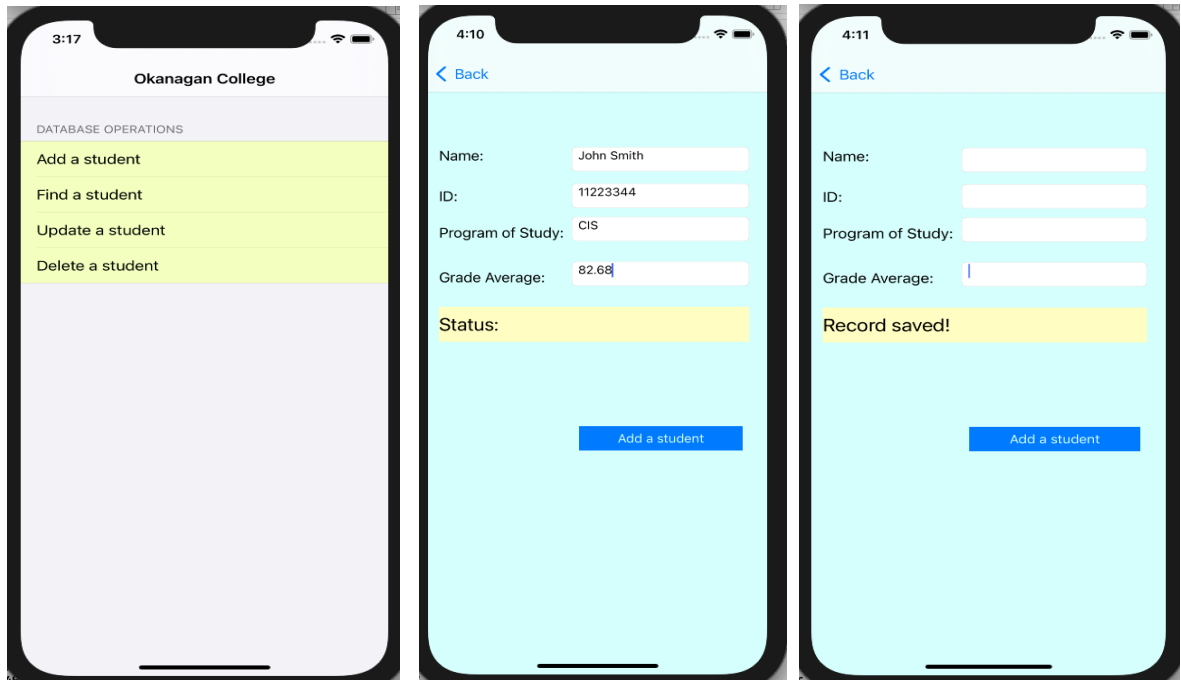
- Create a new “CollegeDB” application as specified below (*Please refer to the FMDapp in-class activity example*):
 - Add labels and textfields into the Storyboard for accepting the following data for a student: Name, ID, Program of Study and Grade Average
 - Then add a *segmented control* into the Storyboard to provide “Save”, “Find”, “Update” and “Delete” options for saving, finding, updating and deleting a student record from a table named “students” in a database named “okcollege”.
 - Add a few student records for testing. Use ID as the key for finding, updating and deleting operations.
 - Take screen shots for adding, finding, updating and deleting a student record and save them into a folder named **Part1ScreenShots** for submission.

Part II: [55%]

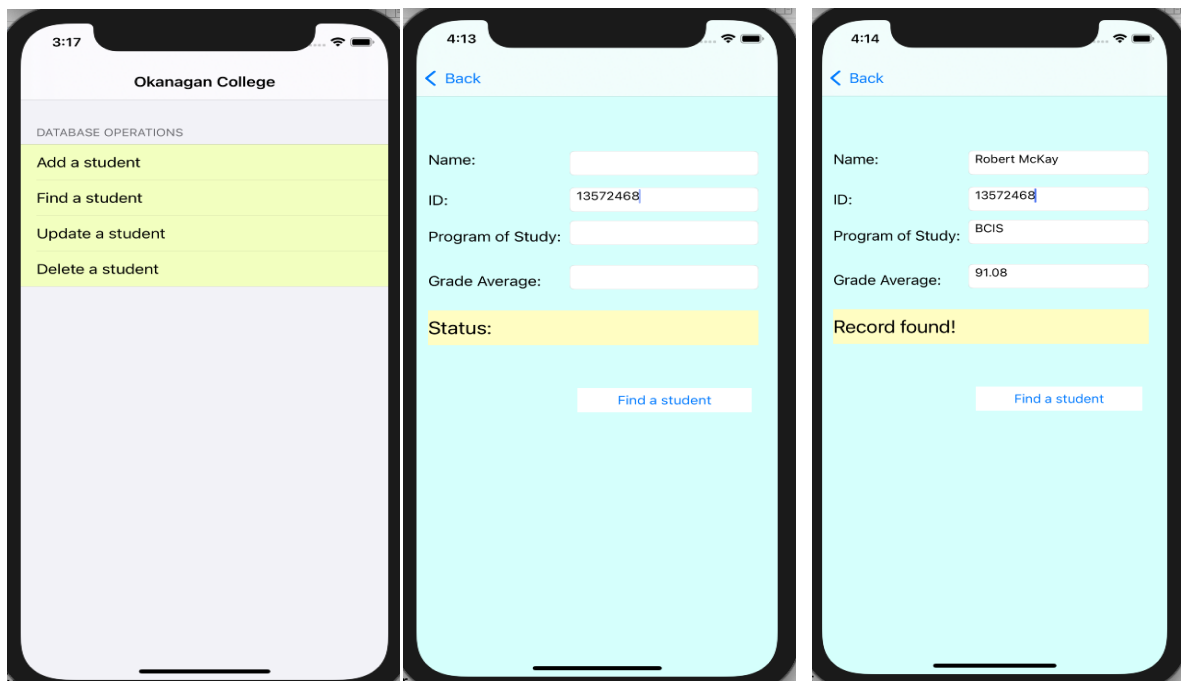
- Create a new “CollegeTableViewDB” application. This new app will be doing exactly the same tasks as in Part I, but with a different user interface design. You should use a Navigation Controller with a root view to a Table View Controller for the first scene. Then the Table View Cell object in the Table View Controller should be able to trigger a *Show* segue to a View Controller for the second scene. The second scene view controller should have labels, textfields and a button (or two buttons if required) to trigger the appropriate operation(s). *Please refer to NavigationControllerTableView in-class activity.*
- When the program runs, the Table View should display four database operation choices as a main menu (See the first picture below):
 - Add a student
 - Find a student
 - Update a student
 - Delete a student

When one of the four operations is chosen, it goes to a second scene (View Controller) to allow the appropriate operation to be performed. When the back button in the Navigation Bar is pressed, it goes back to scene one (i.e. Table View Controller) for showing the main menu again.

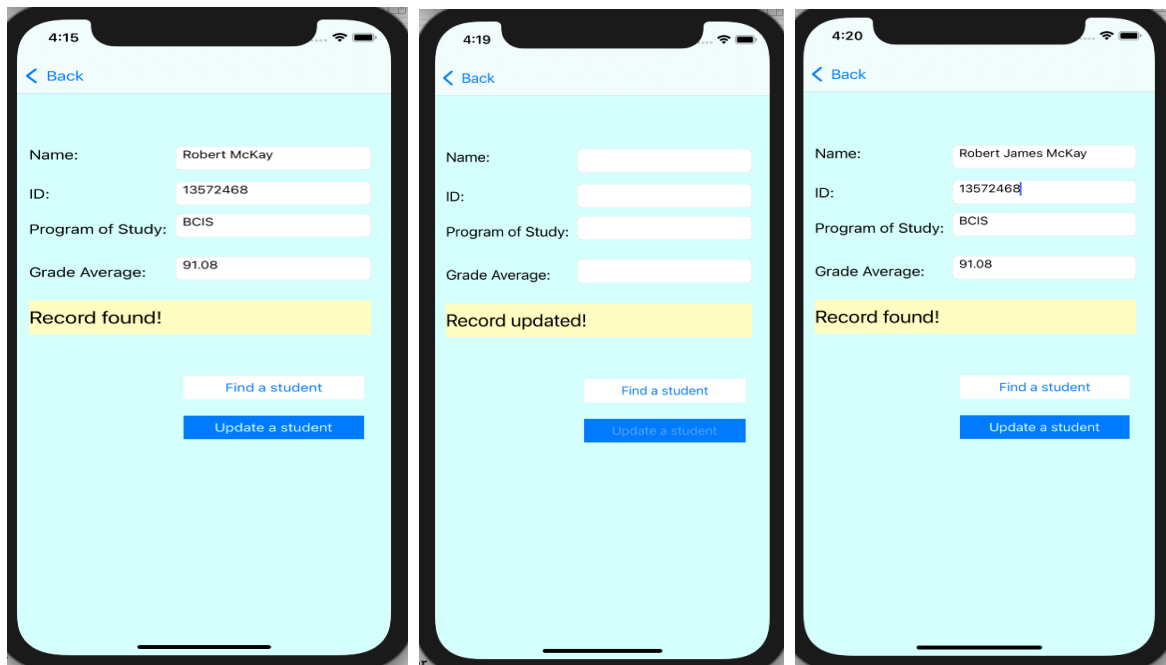
Adding a student record:



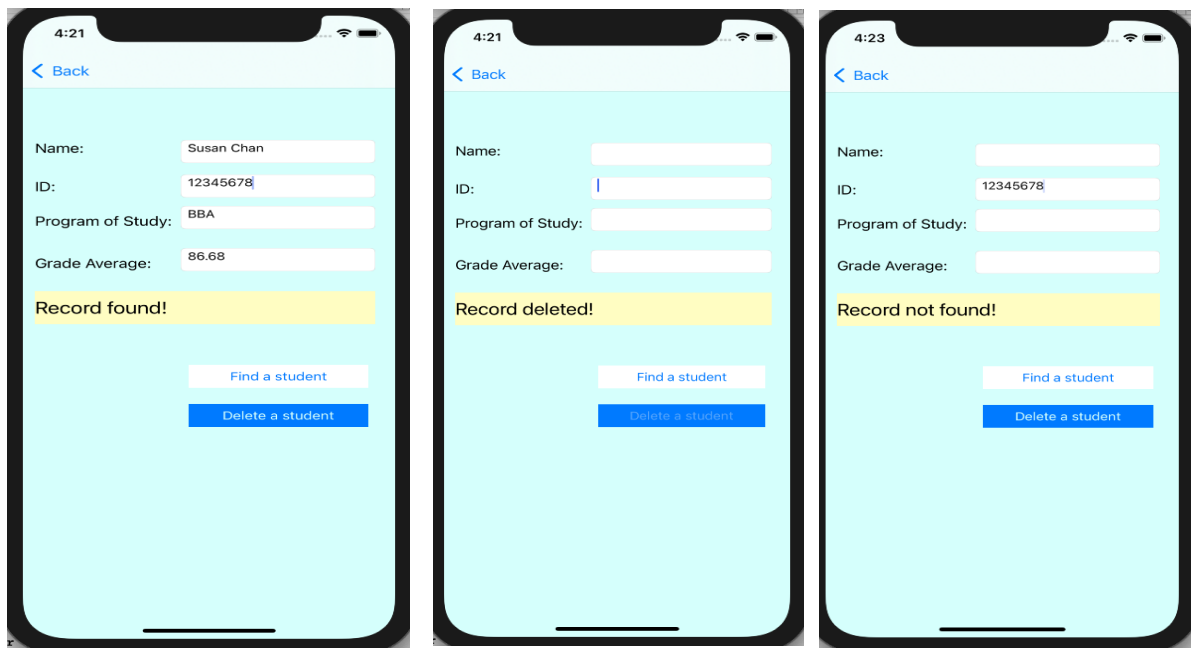
Finding a student record:



Updating a student record:



Deleting a student record:



Your program should provide the same functionalities for these database operations. Take screen shots for each operation and save them into a folder named **Part2ScreenShots** for submission.

Submitting your work:

Copy both completed XCode project folders and the two screen shots folders into **Lab6** folder. Then compress your **Lab6** folder and submit it via Lab 6 link on our Moodle course page by *Friday, March 7, 2025 (before midnight)*.