

CSE 335- Spring 2020

Lab 3: My Favorite Food App

Due by Thursday Feb 13th 11:59 pm

40 Points

Introduction: During lectures, we have discussed the personInfo app that uses dictionary to keep personal information. The app illustrates the MVC design pattern heavily used in the iOS app development. Also, the app illustrates the use tool bar, navigation bar, and bar button items.

In this lab you will be developing a **my favorite food app** that store names of food, the restaurant that the food can be ordered and the price.

Functionalities:

Add : add new food info object to the dictionary. Ask the user to enter the food name, and a restaurant that food can be ordered and the price. Add need to be a navigation bar button item.

Delete : delete a food object from the dictionary. Ask the use to enter name of the food item to be deleted. Detele need to be a navigation bar button item.

Search : search a record in the dictionary. Search is based on the name of the food. Therefore, your app should ask the user to enter name of the food to be searched. If found, return the record and display it (name of the food , restaurant that you can order the food) in the view, and the cost. Use the UIAlertController to read the name of the food for the search operation. Search need to be a tool bar button item.

Edit: Once the search is done, then users can change the restaurant of the food (not the name of the food) and/or the price. Then, when the save button is pressed, update the record in the dictionary. Edit need to be a tool bar button item.

Navigate all the records using next and prev buttons: Starting from the first record, next and pre buttons should display one record at a time. If the last record has been fetched and user press the next, display a message saying “No more records”. Similarly, if the pre button is pressed while showing the first record, display the message “Showing the first Record”. Next and Prev need to be a tool bar button items.

App Interface: Your app MUST have the UI design similar the personInfo example discussed in the class using navigation bar, tool bar, bar button items, and UIAlertController items. You may need to add additional bar buttons items than the example. You are free to design a suitable UI for this lab using these items and other UI objects as needed.

Design and Implementation: Your design and implementation should follow the Model-View-Controller (MVC) architecture similar the one discussed in the class

Submission:

Submit a zip file containing your complete project to the blackboard

Grading:

Interface (navigation bar, tool bar, bar button, UIAlertController, and other UI items as needed): 10 pts

Functionalities : 20 pts

MVC architecture : 10 pts