

Journal

Lesson 10



Description

Add a navigation bar and cancel button to allow the user to return to the table view.

Learning Outcomes

- Practice binding user-defined classes to view controllers with Interface Builder.
- Practice adding interface elements to a view, and establishing an action connection between a view and controller.
- Describe the functional differences between push and modal segues.
- Practice creating a connection from an interface element to a controller action.
- Discover how view controllers may be dismissed from the screen.



Vocabulary

navigation controller	segue	modal segue
navigation controller stack	navigation bar	bar button item
controller action	UIViewController	

Materials

- **Journal Lesson 10** Xcode project

Opening

How can we navigate back from the new view controller?

Agenda

- Discuss how the navigation between table cells and the `JournalEntryViewController` is managed by the navigation controller, but the modal segue between the compose button and the `NewJournalEntryViewController` is not.
- Explain how modal segues do not push view controllers onto the navigation controller stack.
- Add a new class (⌘N) to the project called `NewJournalEntryViewController` that extends `UIViewController`.

```
import UIKit

class NewJournalEntryViewController: UIViewController {

}
```

- Using Interface Builder, select the New Journal Entry View Controller and use the Identity Inspector (⌘3) to set the Class to `NewJournalEntryViewController`.
- Using the Object Library (⌘L), drag a Navigation Bar to the top of the New Journal Entry View Controller, and use Control-dragging to add constraints for the top, leading and trailing edges of the navigation bar.
- Adjust the top edge of the text view to match the navigation bar, and use the menu item *Editor > Resolve Auto Layout Issues > Update Constraints* (⇧⌘=) to update the changed constraint.
- Change the title of the navigation bar to **New Journal Entry**.
- Using the Object Library (⌘L), add a Bar Button Item to the left side of the navigation bar, and use the Attributes Inspector (⌘4) to set the Identifier attribute to **Cancel**.
- Run the app (⌘R), tap the compose button, and observe the navigation bar and cancel button appear.
- Discuss how, because the navigation controller is not managing the `NewJournalEntryViewController`, one must implement the behavior of the `NewJournalEntryViewController` navigation bar buttons.
- Using Interface Builder and the Assistant Editor (⌘⇧↔), Control-drag from the Cancel button to the `NewJournalEntryViewController` class implementation to create a new action called `cancel:`.

```
@IBAction func cancel(sender: UIBarButtonItem) {  
    }  
}
```

- Using the Documentation and API Reference (⇧⌘0), explore the `UIViewController` method `dismissViewControllerAnimated:completion:`.
- Update the implementation of `cancel:` to dismiss the view controller.

```
@IBAction func cancel(sender: UIBarButtonItem) {  
    dismissViewControllerAnimated(true, completion: nil)  
}
```

- Run the app (⌘R), tap the compose button, tap the Cancel button, and observe the table view controller reappear.

Closing

What is the `completion:` parameter for in the `dismissViewControllerAnimated:completion:` method?

Modifications and Extensions

- Modify the implementation of the `cancel:` method to display a modal `UIActionSheet` that requires the user to confirm the cancellation action.

Resources

The Swift Programming Language: Classes and Structures https://developer.apple.com/library/ios/documentation/Swift/Conceptual/Swift_Programming_Language/ClassesAndStructures.html

Xcode Overview: Build a User Interface https://developer.apple.com/library/ios/documentation/ToolsLanguages/Conceptual/Xcode_Overview/edit_user_interface.html

View Controller Programming Guide for iOS: Presenting View Controllers <https://developer.apple.com/library/ios/featuredarticles/ViewControllerPGforiPhoneOS/ModalViewControllers/ModalViewControllers.html>

`UIViewController` Class Reference https://developer.apple.com/library/ios/documentation/UIKit/Reference/UIViewController_Class/index.html