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

<table>
<thead>
<tr>
<th>navigation controller</th>
<th>segue</th>
<th>modal segue</th>
</tr>
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<tbody>
<tr>
<td>navigation controller stack</td>
<td>navigation bar</td>
<td>bar button item</td>
</tr>
</tbody>
</table>

| controller action | UIViewController |

Materials
• Journal Lesson 10 Xcode project

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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.

```swift
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:

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@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


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