FOR INSTRUCTOR PURPOSES ONLY

MATERIALS

+ Lab
+ Lesson

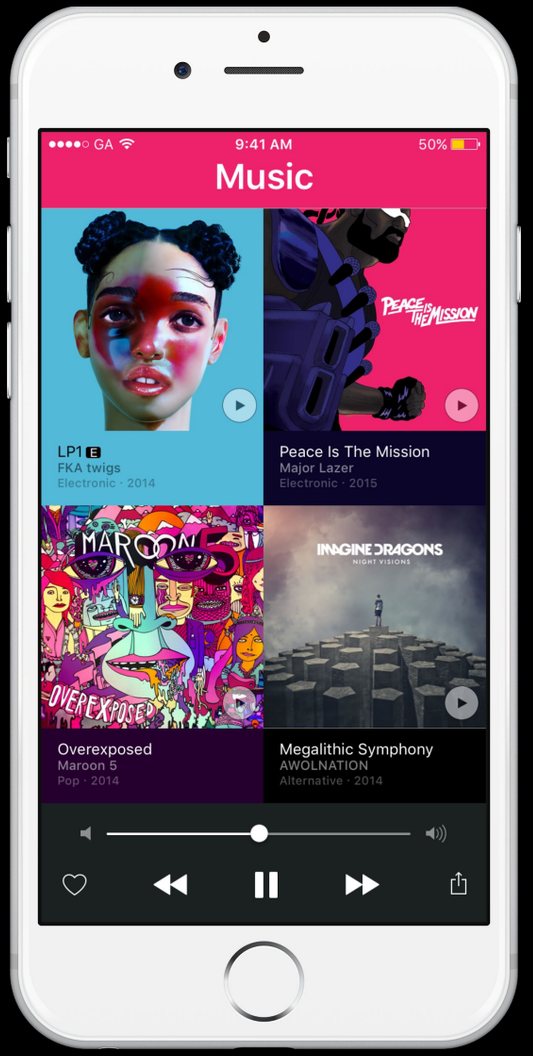
FOR INSTRUCTOR PURPOSES ONLY

PRE-WORK

+ Take a look through the lesson plan
+ Open the starter code

GENERAL ASSEMBLY

BUILDING USER INTERFACES



Wellington Moreno

Lead iOS Instructor, General Assembly

LESSON

LEARNING OBJECTIVES

+ **Style** User Interface Elements using Interface Builder
+ **Add** an Image Asset to XCode
+ **Add** UI Elements to a storyboard
+ **Run** a project in a Simulator

QUESTION

HOW HARD IS IT TO CREATE INTERFACES IN IOS? □

ACTIVITY: LET'S DRAW AN APP

DIRECTIONS

1. Open an App on your phone that you use often, for example, Instagram (1 min)
2. Sketch the User Interface on a piece of paper or on the desk (2 mins)
3. Discuss what you sketched with a partner. Take turns showing your work (3 mins)

DELIVERABLE

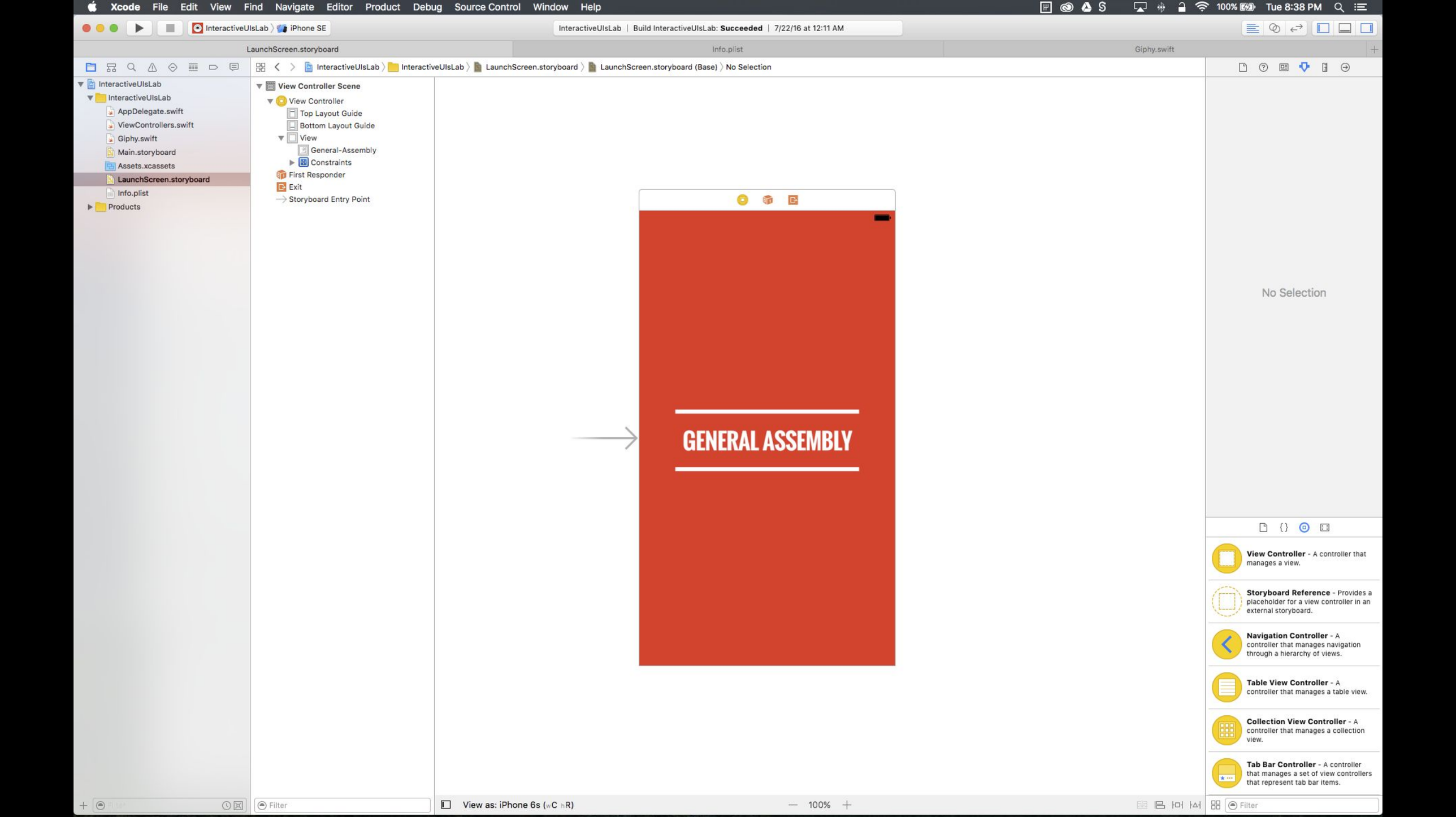
Discuss the different interface elements you identified

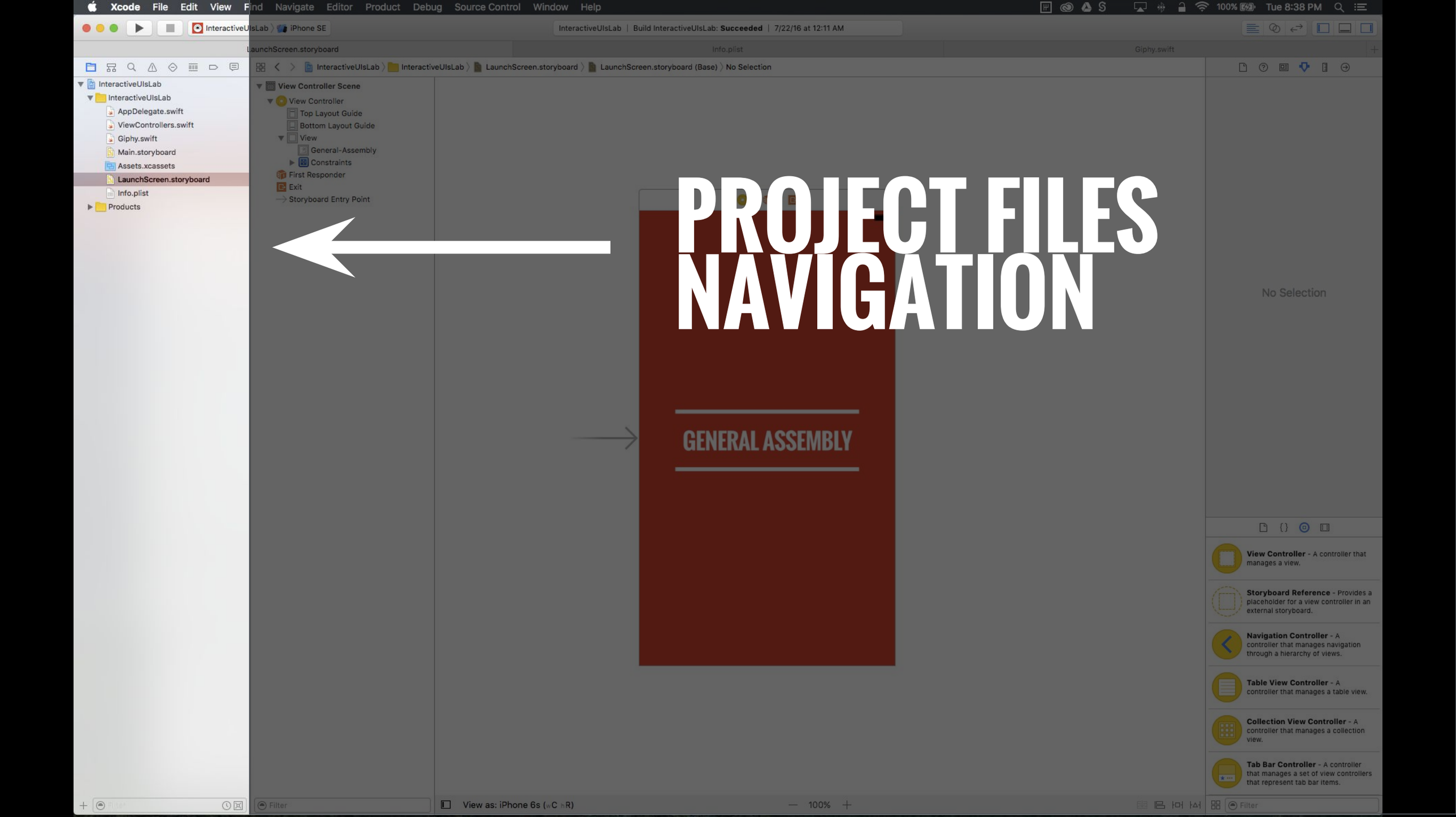
INTERFACE BUILDER

DEFINITION

“INTERFACE BUILDER MAKES IT SIMPLE TO DESIGN A FULL USER INTERFACE WITHOUT WRITING ANY CODE.”

- APPLE


Xcode File Edit View Find Navigate Editor Product Debug Source Control Window Help
Tue 8:38 PM
InteractiveUIsLab 〉 iPhone SE
InteractiveUIsLab | Build InteractiveUIsLab: Succeeded | 7/22/16 at 12:11 AM
LaunchScreen.storyboard
Info.plist
Giphy.swift
InteractiveUIsLab 〉 InteractiveUIsLab 〉 LaunchScreen.storyboard 〉 LaunchScreen.storyboard (Base) 〉 No Selection
InteractiveUIsLab
InteractiveUIsLab
AppDelegate.swift
ViewControllers.swift
Giphy.swift
Main.storyboard
Assets.xcassets
LaunchScreen.storyboard
Info.plist
Products
View Controller Scene
View Controller
Top Layout Guide
Bottom Layout Guide
View
General-Assembly
Constraints
First Responder
Exit
Storyboard Entry Point
GENERAL ASSEMBLY
No Selection
View Controller - A controller that manages a view.
Storyboard Reference - Provides a placeholder for a view controller in an external storyboard.
Navigation Controller - A controller that manages navigation through a hierarchy of views.
Table View Controller - A controller that manages a table view.
Collection View Controller - A controller that manages a collection view.
Tab Bar Controller - A controller that manages a set of view controllers that represent tab bar items.
Filter
View as: iPhone 6s (wC hR)
100%


PROJECT FILES NAVIGATION
GENERAL ASSEMBLY
InteractiveUIsLab
InteractiveUIsLab
AppDelegate.swift
ViewControllers.swift
Giphy.swift
Main.storyboard
Assets.xcassets
LaunchScreen.storyboard
Info.plist
Products
View Controller Scene
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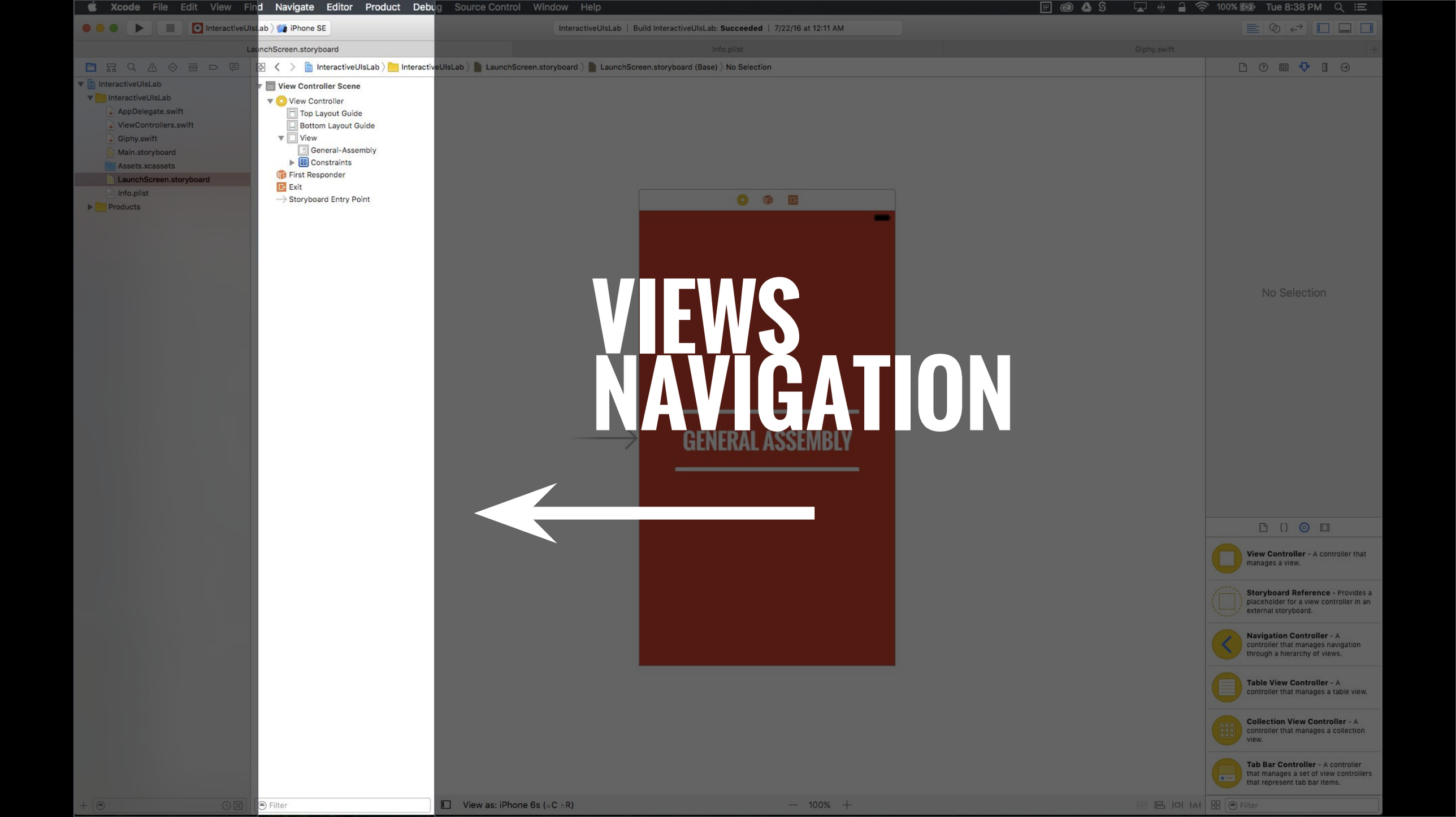
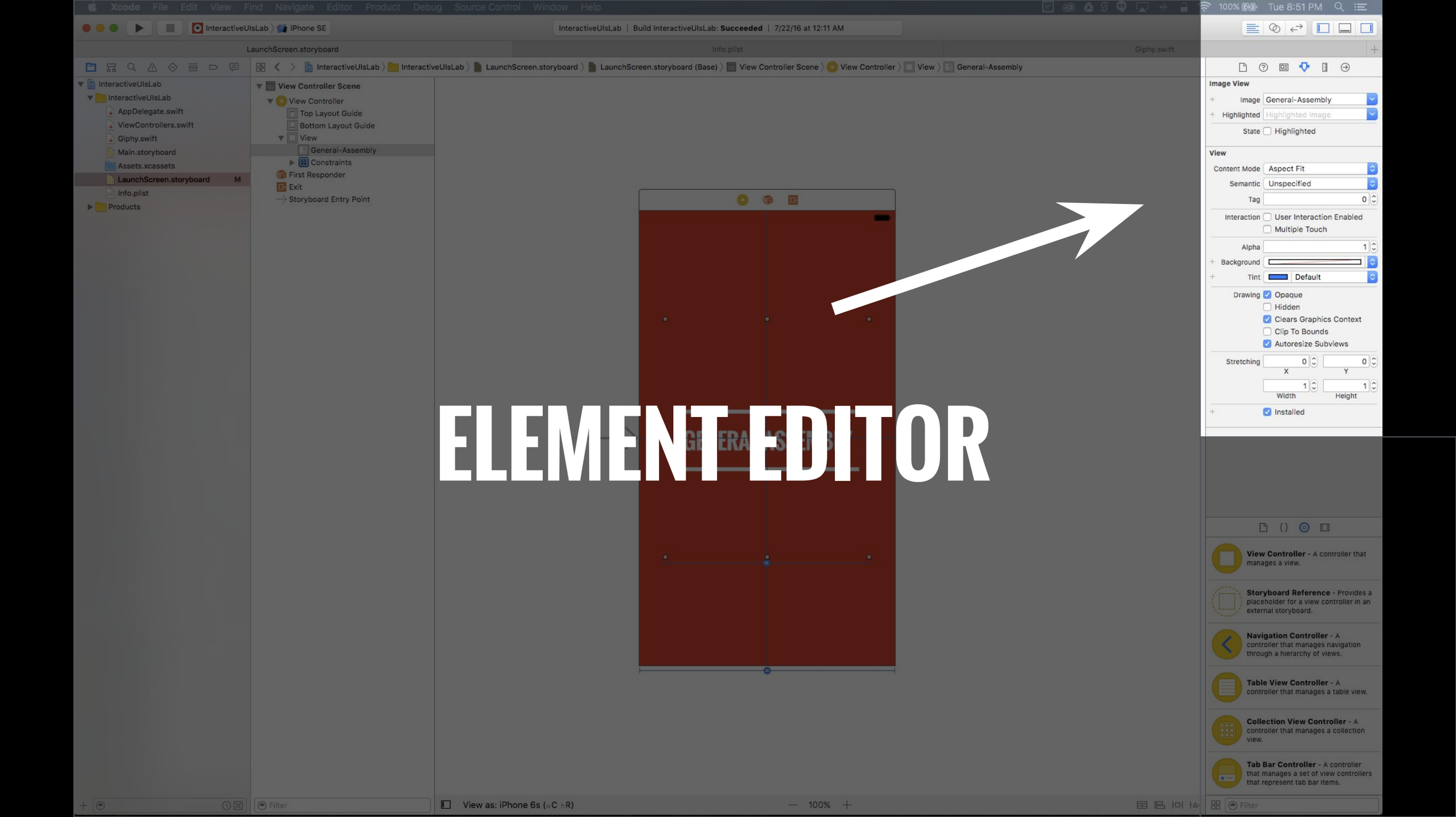
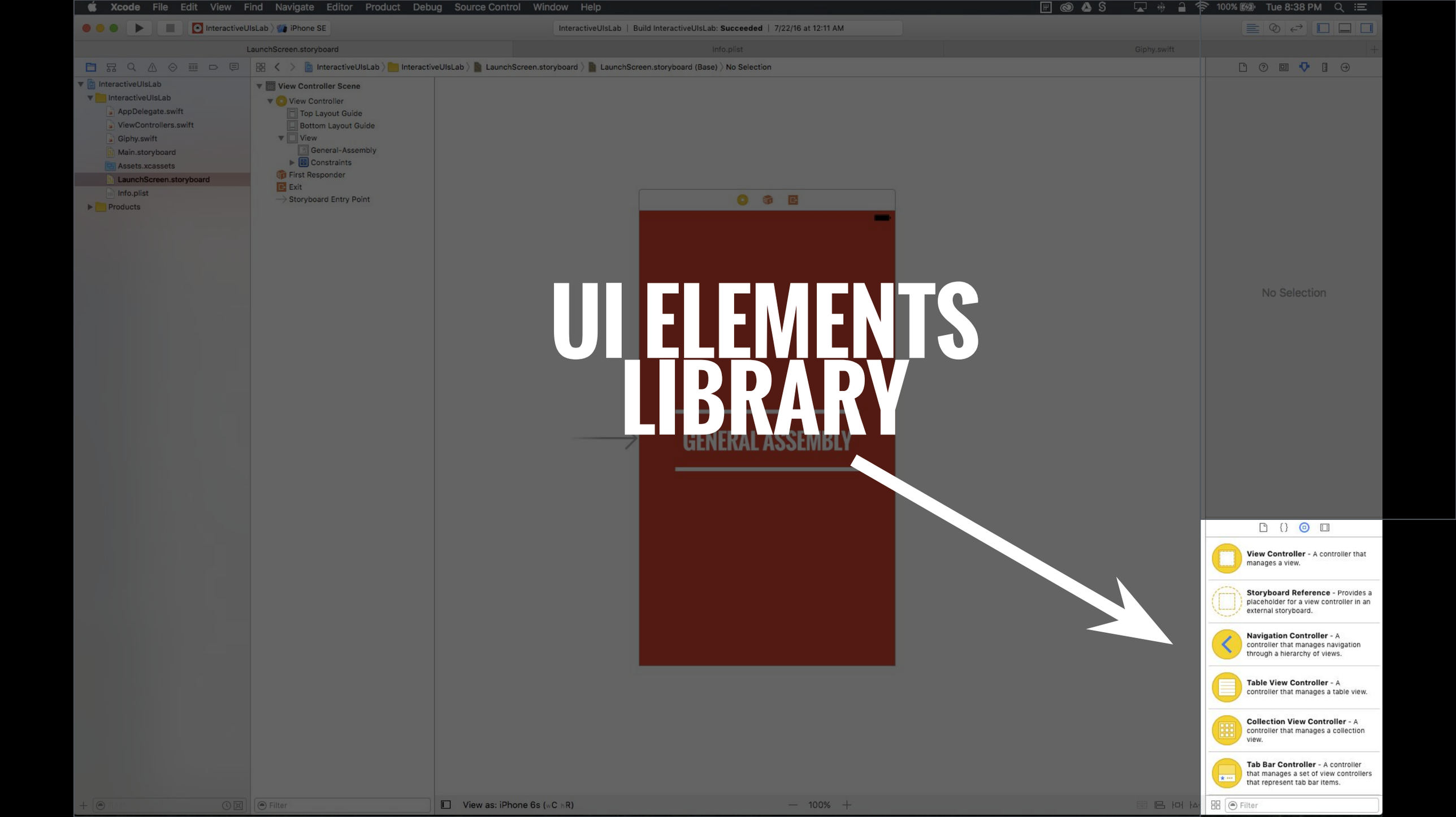

VIEWS
NAVIGATION
GENERAL ASSEMBLY


ELEMENT EDITOR


UI ELEMENTS
LIBRARY
GENERAL ASSEMBLY
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ACTIVITY: LET'S DRAW INTERFACE BUILDER

DIRECTIONS

1. On your desks or on paper, draw XCode, identifying the different parts and what they are for. (2 min)
2. Pair up with someone next to you and compare (2 min)

DELIVERABLE

Show me your drawing

DEMO TIME!

INDEPENDENT PRACTICE

15 mins

DIRECTIONS

1. Open XCode and create a new Single-View App (1 min)
2. Open the Storyboard (1 min)
3. Create an interface that shows your favorite quote, and its author (10 min)

DELIVERABLES

Create an interface showing your favorite quote.

+ Make sure the author if the quote is in a separate field
+ Include a picture of the author

RUNNING IN THE SIMULATOR

DEMO TIME!

LESSON

Q & A

INDEPENDENT PRACTICE

10 mins

DIRECTIONS

1. Run your project on 4 different simulators, and make notes on the differences you see with each of the different devices. (5 mins)
2. Make note of the differences you see with each of the different devices (2 mins)
3. Discuss with a partner (3 min)

DELIVERABLES

Share your findings

INTRODUCTION

STYLING UI ELEMENTS

QUESTION

WHY IS STYLE IMPORTANT?

DEMO TIME!

LESSON

Q & A

INDEPENDENT PRACTICE

EXERCISE

DIRECTIONS

Recreate this interface (10 mins)

Image Link:

http://www.thedivinitus.com/search/label/wiwt

QUESTION

HOW HARD WAS THAT ?

CONCLUSION

+ Interface Builder is a really intuitive way to put together interfaces
+ It is the recommended way to create interfaces in iOS
+ Interfaces are divided into pages called View Controllers.

LESSON

Q & A

LESSON

EXIT TICKET

DON’T FORGET TO FILL OUT YOUR EXIT TICKET

THANKS!

WELLINGTON MORENO

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+ Twitter: @SirWellingtonZ
+ Email: wellington.moreno@ga.co