Mobile Apps Development for Journalists

Week 4 - Fall 2019
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School of Journalism

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Agenda

- Technical Writing at National Instruments

- Career Discussion

- iPhone App Development!

- Storyboards

- User Interface Controls

- View Controllers

- Multiple Screens

Career Discussion

- I want to hear from you!

- What are your plans? Summer internships, jobs after graduation, graduate school, law school?

- Are you interested in digital/tech careers? Social media, web producer, product designer, etc?

- Anybody interested in software development or programming?

Lessons in the Book

- Lesson 1.8 - Interface Builder Basics

- Lesson 2.7 - Introduction to UIKit

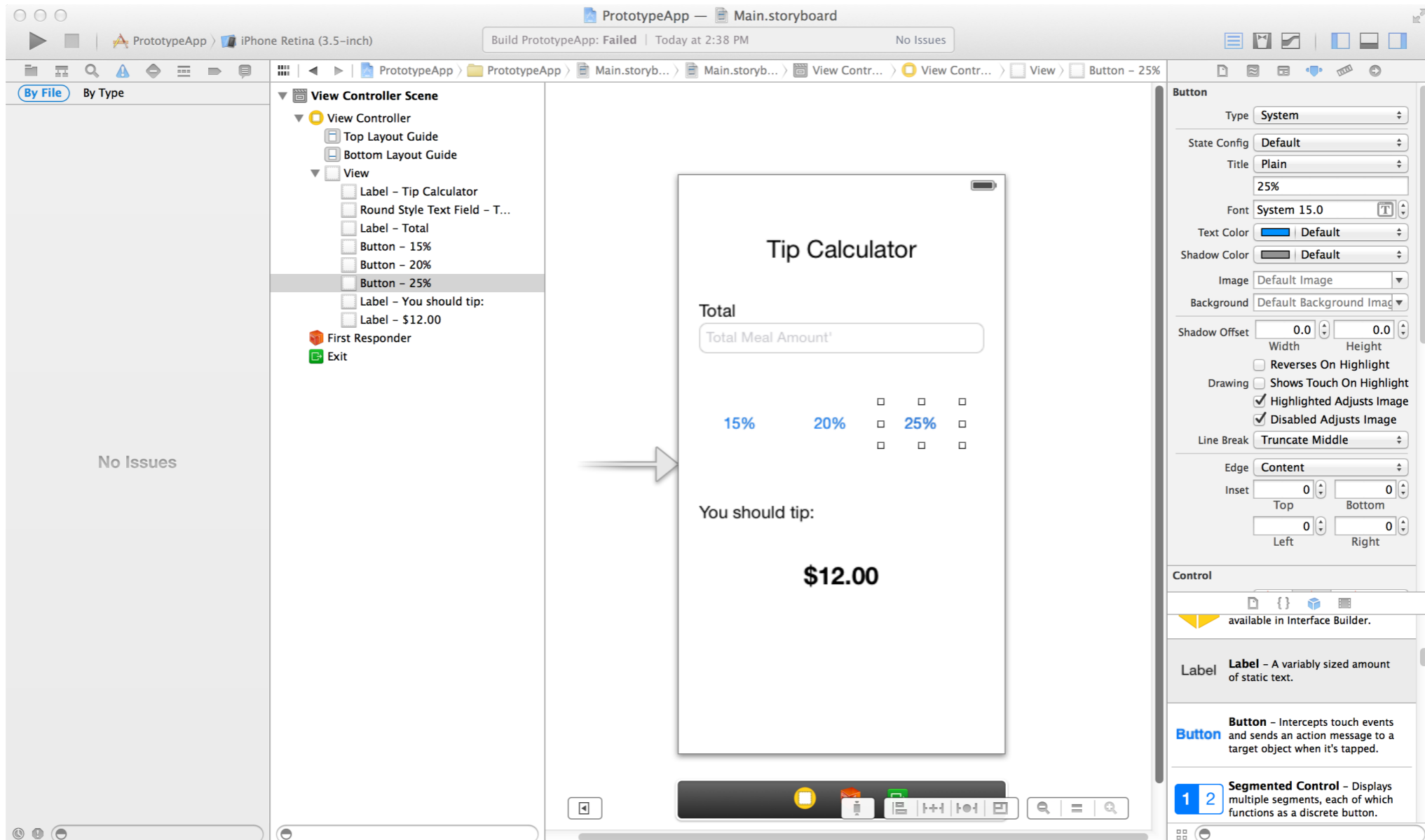- Lesson 2.8 - Displaying Data

- Guided Project - Light

Xcode and Storyboard

- Storyboard is the user interface design tool built into Xcode

- We can use it to design iPhone and iPad apps

Starting a New Project in Xcode

- Single-View Application

- Name it what you want

- Click "Main.storyboard"

Tip Calculator

User Interface Controls

- Label

- Button

- Text Field

More UI Controls

- Segmented Control

- Image

- Map View

- Switch

In-Class Exercise

- Make a one screen user interface with Xcode for the roll call vote for a United States Congress Bill

- Here's one that passed: https://www.congress.gov/bill/116th-congress/house-bill/3877/actions?r=2&s=2

- The roll call: http://clerk.house.gov/evs/2019/roll511.xml

- This would be the app that people might look at to see how their Representative or Senators voted

Exploring More with Xcode

- Let's build on what we did earlier today

- We covered several of the user interface elements for one screen

What is a View Controller?

- We have a view, which is the user interface - what gets displayed on the screen

- The View Controller does all of the work behind the scenes to make the view do something

- For instance, loading data in to fill a screen. Or responding to a button press

Images

- UIImageView

- Also backgrounds for other views

- Need to be imported into project's Image Assets

- Using images directly from the web is actually a special case we'll discuss later in the semester

UIImageView

- Scale To Fit

- Aspect Fit

- Aspect Fill

- Sizing, Distortion, etc.

Images

- UIImageView

- Also backgrounds for other views

- Need to be imported into project's Image Assets

- Using images directly from the web is actually a special case we'll discuss later in the semester

In-Class Image View Exercise

- Create a new XCode Project

- Download a photo to use for your app (NASA public domain)

- Put the image into Images.xcassets

- Put the Image into an ImageView

- Try all of the different scaling modes

Outlets and Actions

- Outlets - like nouns

- Actions - like verbs