

Tip Calculator App

Introduction

In this assignment you are going to build a single view application that helps users calculate how much they should give as a tip on their food bill.

Setup

- Create a new iOS project named: TipCalculator
- Use the Single View template
- Initialize it as a git repository and push it to github

Reminder: Remember to keep your remote (github) copy up to date by regularly committing and pushing.

MVP User stories

1. As a user, I can enter a bill amount

- Place a `UITextField` on to the view
- Create a property on the view controller to represent the `UITextField` called `billAmountTextField`

2. As a user, I can calculate how much my tip should be

- Place a `UIButton` onto the view and change the text to "Calculate Tip"
- Create a method for the button called `calculateTip`
- Have the `calculateTip` method work out what a 15% tip would be

3. As a user, I can see the amount I should tip

- Add a `UILabel` to the view. It will be used to display the calculated tip amount, in dollars.
- Create a property for the label called `tipAmountLabel`
- Update the label after a tip has been calculated

4. As a user, I can enter a tip percentage

- Add another `UITextField` to the view
- Create a property for the `UITextField` called `tipPercentageTextField`

Stretch User Stories

You may have noticed that when you type in data into a `UITextField` the keyboard pops up. If the `UITextField` is at the bottom of the screen, when you touch it, the keyboard will cover up your textfield!

As a user, I want to see the Textfield after I press it...

- Use Notification Center to get a notification when the keyboard shows. Move the screen up the size of the keyboard so that you are no longer hiding the textfield. (look up the keyboardWillShow notification)

As a user, I want to be able to easily adjust my tip percentage

- Add A UISlider to the view
- Create a method for the UISlider called adjustTipPercentage
- Set the range of the slider to min 0 max 100
- Update the tip percentage to the value of the slider

As a user, I don't want to have to press a button every time I change a field

- make the text fields, and slider, update the calculated tip value whenever they are changed.