# **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.