Assignment 4 - Sampler App
Due Oct 23 23:59

Objectives

Sample some UI components.

App description

This app will use a number of UI elements so the app will not make much sense as a single app. You will use a tab bar with a number of tabs. The view for each tab is described below.

**Food tab**

The view at this tab will contain a custom picker view with two columns. The first column will contain a list of countries. When the user has selected a country then the second column displays a list of foods in that country. The list of countries and their foods are given below. The view also has a slider. When the user selects the top (first) food item in the list. The slider moves all the way to the left. When the user selects the bottom (last) food item in the list the slider moves all the way to the right. When the user selects a food item between the first and last the slider moves proportionally. So if Mexico is selected and the user selects the second food item from the top then the slider moves 1/10 the way to the right. Conversely when the user moves the slider the picker will move to the corresponding food item. A slider has many possible positions. However the picker has much fewer positions. For example when Mexico is selected there are only 11 food items. So the picker has only 11 positions. So when the user moves the slider they may leaving in a position that does not correspond exactly to a food selection in the picker. When that happens after the user is done move the slider to the closest position corresponding to a food selection in the picker.

| Country | Food Items |
|---------|-----------|
| India | Avakaya, Pesarattu, Thukpa, Thali, Litti Chokha, Maple, Palak Paneer, Rajma-Shawl, Vindaloo, Khaman, Handva, Bisi bele bath, Pav Bhaji, Eromba, Chungdi Jhola |
| USA | Hot Dog, Pizza, Hamburger, Clam Chowder, Succotash, Fried Chicken, Gumbo, Grits, Chitterlings, Hushpuppies, Cobbler |
| Mexico | Taco, Quesadilla, Pambazo, tamal, huarache, Alambre, Enchilada, Panita, Gordita, Tlayuda, Sincronizada |

**Web Tab**

This view contains a text field and a web view. When the user enters a valid url in the text field the web view displays the indicated web page.

**Segment Tab**

This view has a segmented control with three options: Progress, Text, Alert. When the user selects the "Progress" option they see a switch and an inactive activity indicator. When they turn the switch "on" or to the left the activity indicator spins. When they turn the switch off the activity indicator stops spinning. When the user selects the "Text" option they see a Text View that they can enter text. The text view should start with some text. When they select the "Alert" option they will see a button. When they click on the button an alert will pop up asking the user "Do you like the iPhone".

## Grading

The assignment will be graded as follows:

| Points | Item |
|--------|------|
| 10 | Tab bar working |
| 15 | Picker in Food Tab working correctly |
| 15 | Slider in Food Tab working with Picker |
| 10 | Web view in Web tab working |
| 10 | Segment Control working in Segment Tab |

| Points | Item |
|--------|------|
| 10 | Progress activity working in Segment Tab |
| 10 | Text view in Segment Tab |
| 10 | Alert in Segment Tab |
| 10 | Proper coding style |

What to Turn in

Create a Xcode project for the assignment. Xcode places the project in its own directory. Place the directory (and all its contents) into a zip file. This assignment we will not use blackboard to turn in assignments. We will use my older course portal (http://bismarck.sdsu.edu/CoursePortal).