

Spices

For my first project this semester, I would like to make an app that my roommate has requested. She does a lot of cooking, and since we live in Boulder there is very limited real estate for students, especially in the kitchen. This means that she doesn't have adequate counter space to store a spice rack for all her seasonings. She has requested an app that helps her inventory her spice rack and let's her know when she is getting low on a particular spice so that she can buy more next time she goes to the market.

Among some other features, she also would like to see a quick blurb about the spice, as well as some suggested recipes from AllRecipes.com that helps her get some inspiration for cooking as well.

I've thrown together a quick model class for what the spice might look like here:

```
class Spice {
    var name : String = ""
    var netWt: Double = 0.0
    var unit : String
    var volumeRemaining : Double = 0.0
    var percentageRemaining : Double = 100.0
    //var image : UIImage = UIImage(named: " .png")!

    var brand : String?
    var purchaseDate : NSDate?
    var expDate : NSDate?

    func calculatePercentage() -> Double{
        percentageRemaining = (self.volumeRemaining / self.netWt) * 100
        return percentageRemaining.roundToPlaces(1)
    }

    func getDetails() -> String{
        let summary = String("You have \$(volumeRemaining)\$(unit) of \$(name) from the original \$(netWt) \$(unit) container which is \$(calculatePercentage())%.")
        return summary
    }

    init(name: String, netWt : Double, unit: String){
        self.name = name
        self.netWt = netWt
        self.unit = unit
    }
}

//Variable called MySpiceRack holds a list of spices
var mySpiceRack = [Spice]()

//Oregano is an instance of a Spice
let oregano = Spice(name: "oregano", netWt: 2.5, unit: "oz")

//Cumin is an instance of a Spice
let cumin = Spice(name: "cumin", netWt: 3.0, unit: "oz")
```

The general look and feel of this app will be similar to an actual spice rack using a collection view as the home screen as well as some table views and other detail views to get information about the spices and a screen that will allow the user to search for a new spice and add it to his / her rack.

A few challenges I'd like to incorporate into the app to make it successful:

1. Core Data - using Realm, a third party open source SQL database to have a persistent spice rack.
2. Food2Fork.com API which connects to AllRecipes.com
3. A live search field option that autocompletes spices and recipes.
4. Notification framework so that the user is alerted when somethings in the rack is low. Possibly looking into adding to the reminders app.