

## Final Project Proposal

### **Project**

FeedMe – A Meal Planning App

### **Description**

The FeedMe app takes the hassle out of selecting meals each week by randomly generating five meals, using Yummly's API, that abide by a users' specified preferences (ex: allergies, diet). The app produces a grocery list for each week's meal plan, which is editable by the user. Users can select meals from their meal plan to review detailed information (ex: total cook time, servings, source, ingredients). Lastly, users can interact with the device camera and photos in order to add pictures of their prepared meals.

### **Fundamental Functionality**

At least one container view controller

- Tab Bar Container View Controller
- Navigation View Controller

At least 4 non-trivial scenes

1. Diet: User Selects Dietary Preferences
2. Meal Plan: Display 5 randomly generate meals (Based on selected dietary preferences)
3. Recipe: Display recipe details for selected recipe
4. Grocery List: List all ingredients for the meal plan
5. Photos: Display user generated meal photos

### **Interesting Functionality**

Integrate Yummly API to get recipes

Integrate Device Camera and Photos

## Scene Details/Mockups

### Scene 1 – Diet

- The user can navigate to Diet scene using the icon labeled 'Diet' in the Tab Bar
- The user can select the following dietary preferences using ON/OFF switch in order to dictate the types of recipes included in their meal plan
  - Vegetarian
  - Pescetarian
  - Vegan
  - Gluten-Free
  - Dairy-Free
- The dietary options will be displayed as a cell in a Table View
- Each cell in the Table View will include an icon (Image View), a dietary option (Label), and an ON/OFF Switch



**Select Preferences**

	Pescetarian	<input checked="" type="checkbox"/>
	Vegetarian	<input type="checkbox"/>
	Vegan	<input type="checkbox"/>
	Gluten-Free	<input checked="" type="checkbox"/>
	Dairy-Free	<input checked="" type="checkbox"/>
	Nut-Free	<input checked="" type="checkbox"/>
	Peanut-Free	<input checked="" type="checkbox"/>

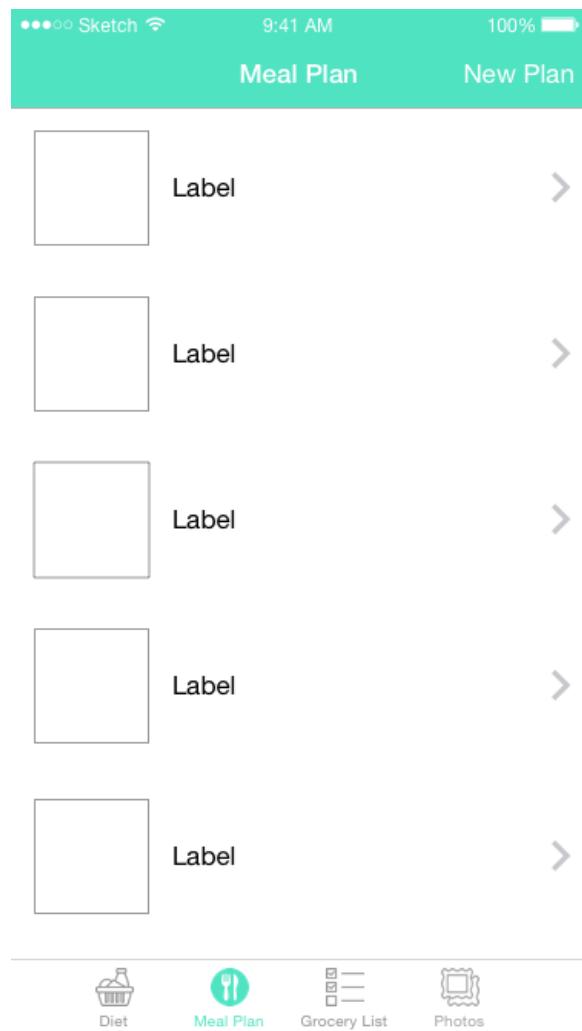
Dietary preferences automatically assumes an omnivorous diet unless specified above

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Diet   Meal Plan   Grocery List   Photos

## Scene 2 – Meal Plan

- The user can navigate to Meal Plan using the icon labeled 'Meal Plan' in the Tab Bar
- The view will display 5 randomly generate meals (based on selected dietary preferences) for each week
- The user can request a new meal plan by selecting the 'New Plan' button in the navigation bar
- The recipes will be displayed as a cell in a Table View
- Each recipe cell will include a recipe photo (Image View), a title (Label), and a disclosure indicator (navigates to the corresponding recipe)



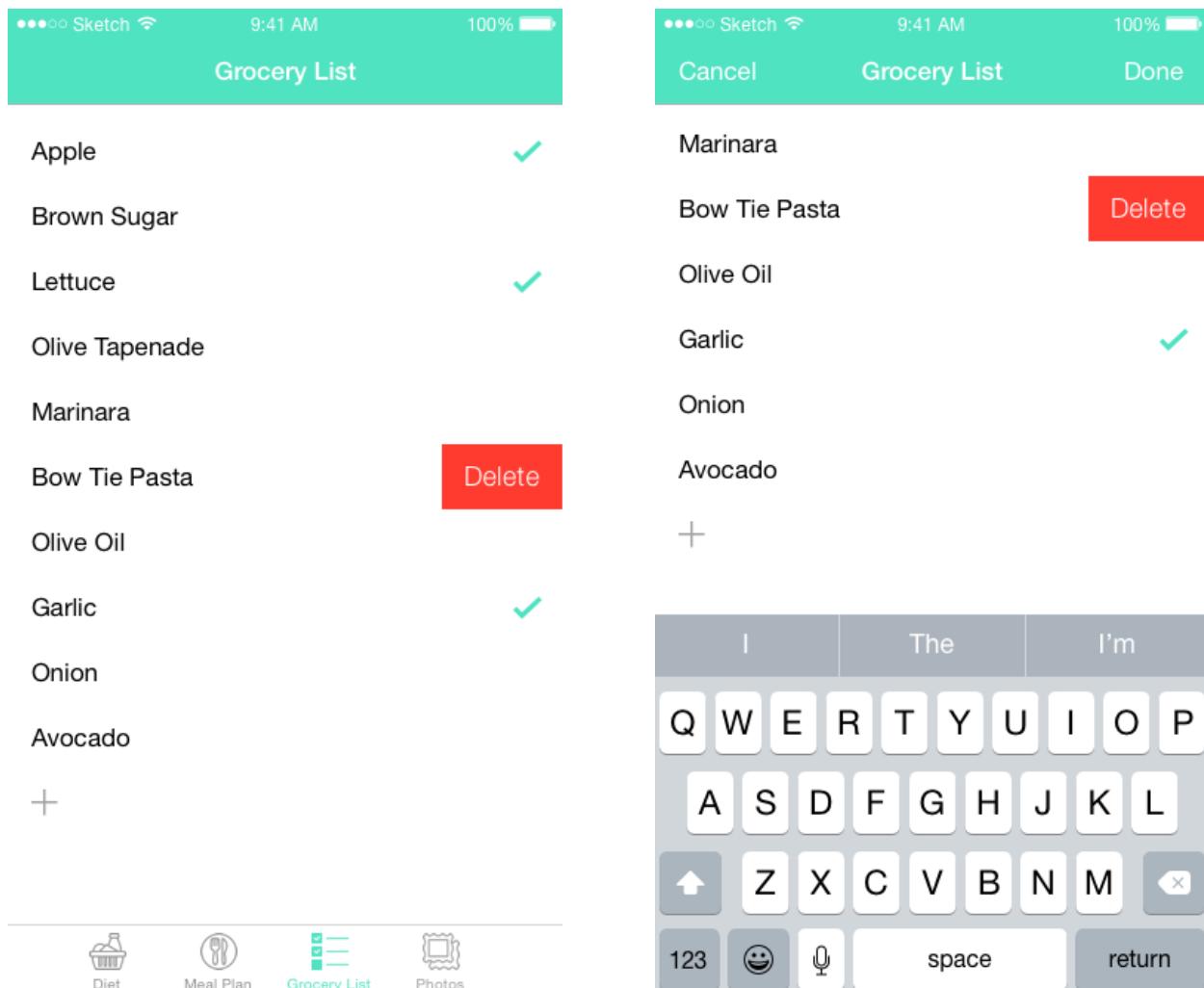
### Scene 3 – Recipe

- The Recipe view will be a modally presented and embedded in a Navigation View Controller
- The view will display recipe details for the recipe (selected from the Meal Plan view) including:
  - Photo (Image View)
  - Title (Label)
  - Total Time (Label)
  - Number of Servings (Label)
  - Source Name (Label)
  - Source URL (Label)
  - List of Ingredients
- The user can select the ‘back arrow/label’ to return to the Meal Plan View



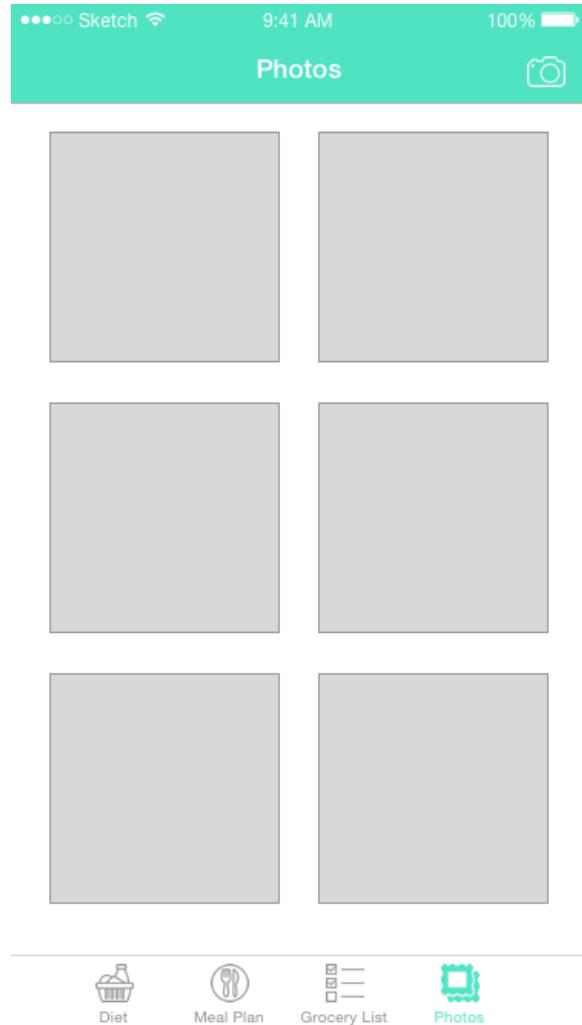
## Scene 4 – Grocery List

- The user can navigate to Grocery List using the icon labeled ‘Grocery List’ in the Tab Bar
- The view will list all ingredients for the meal plan as cells in a Table View
- The user can ‘check’ each ingredient
- The user can delete each ingredient (swipe left for delete button)
- The user can add a custom ingredient by selecting the ‘+’ button, which will notify the keyboard to appear
- The user can select the ‘done’ button in the navigation bar to save the custom ingredient, which will notify the keyboard to hide
- The user can select the ‘cancel’ button to proceed without saving the custom ingredient, which will notify the keyboard to hide



## Scene 5 – Photos

- The user can navigate to Photos using the icon labeled 'Photos' in the Tab Bar
- The view will display all user meal-related photos generated by the user in a Collection View, where each photo is an Image View within a cell
- Users can add photos by selecting the camera icon button, located in the navigation bar, from their device's photos OR camera



## Core Data Entities

### Recipe

- Recipe ID
- Name
- Image
- Total Time (Prep + Cook)
- Number of Servings
- Source Name
- Source URL
- To-Many relationship with Ingredient

### Ingredient

- Name
- To-One relationship with Recipe

### Photo

- Photo ID

