CIS 399

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Project Proposal

The app is to introduce how to cook dishes, and each cook page also can teach how to cook by video. The app will implement IOS SDK, make by swift language in Xcode.

The Main storyboard will implement several view controllers, which are DishListViewController, RecipeDetailViewController, MakeRecipeViewController, FavoriteListViewController, and CreateDetailViewController. And those view controllers will based on Tab Bar Controller which user have to tab the bottom bars of view to change the views.

Tab bar Controller will contain three tab bars scenes which are "Kitchen", "My Recipes", and "Favorites". "Kitchen" connect DishListViewController, "My Recipes" connect MakeRecipeViewController, and "Favorites" connect FavoriteListViewController.

DishListViewController contain the table view and embed with navigation controller which is to list all dish name as title and description of dish as subtitle, also it will implement search bar before table view and user can use keyboard to search dish names. I will find recipes information and pictures from recipes website or some dishes create by my self and add all information into CookData.plist and all pictures into Assets.xcassets. Then use coredatas to save information and reveal into table view cell of DishListViewController. Once user swap the table view cell to the left, there are two buttons appear which are "Favorite" button which can save it into FavoriteListViewController and "Share" button can share information.

User click the dish, the view will change to a detail view RecipeDetailViewController which is to show the recipes, such as food materials, seasoning, cook step, and experiences. Also, there should be implement a button to reload a video clip that teach people how to cook this dish. The video clip will be use NSURL to implement, and the URL will find from recipe website or make by my self.

When user tap the scene "My Recipes", the view will change to MakeRecipeViewController and there should be reveal a empty table view, and also a search bar will implemented at top of table view. User will tap the right bar button item "Add"(+) to make own recipes, and when tap the button item, the view will segue to CreateDetailViewController. And the MakeRecipeViewController can keep all added dish created by user, also when user swap the created dish table cell to the left, there should be a red delete button, when click the button, the cell will be deleted.

In the CreateDetailViewController, there are four table view sections, first section is Dish Detail which contain name and Description, second section is Preperation which contain ingredients and Unit, third section is Recipe Detail which contain every step of cook the dish, and last section is a image view that user can upload photos. When finish fill out all, click "Done" button item, the recipe will be saved and reveal in table view cell of MakeRecipeViewController.

The FavoriteListViewController will display all saved dish table view cells at table view cells of favorite table view from DishListViewController by click "Favorite" button. Also, user can delete the cell by swap table view to the left and tap the red "Delete" button.

From the Core Data part, I implement three entities, they are "DishList", "Detail", and "Add".

Entity "DishList" contain attribute title (type: String) and isFavorite (type: Boolean), the attribute title will save the information of dish name from plist and isFavorite can determine Boolean value returned from predicate which can let FavoriteListViewController to show table view cell by estimate predicate Boolean value. This entity has relationship (type: To Many) called contents with entity "Detail".

Entity "Detail" contain two attributes index (type: Integer 32) and recipe (type: String), the attribute index will determine index of rows presented by RecipeDetailViewController, and attribute recipe will save items information from RecipeList of CookData.plist and show on RecipeDetailViewController. This entity has a relationship (type: To One) called list with entity "DishList".

Entity "Add" contain four attributes name, describe, ingredient, and step which all type belong to String. Those attributes will save textfields information from CreateDetailViewController, and keep information into table view cell, then reveal on table view cells of MakeRecipeViewController.

In code part, there should be create swift file for each view controller in controller folder of source folder of project. And compile the methods that arrange the view controller interface and use the IBOutlet, and IBAction to connect views and present some actions. Also, all core data class file will generated by FinalProject.xcdatampdeld and put those swift files into Model file of Source of FinalProject.

The first interesting criteria is to play a video clip that are relevant to the application. When user click each dish name, it will transfer to detail view which will show cooking steps and it will present a short video to teach how to cook and pictures to show the dish.

The second one is to allow user take photos and upload in CreateDetailViewController.

The third one is Share the dish. When user swap the table view cells to the left from DishListViewController, there should appear a "Share" button. Then user click that button, a small window will appear at bottom of DishListViewController that can allow user share information through Facebook, twitter, or some other social medias.