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# Technical Details

## Screens

1. Splash Screen
   1. Application logo and company details.
2. My fridge
   1. Contains all ingredients that user has in the fridge.
3. Search
   1. Types of searches:
      1. General search.
      2. Search by ingredients.
   2. Choose meal type you want:
      1. Breakfast.
      2. Lunch.
      3. Supper.
4. Settings and preferences page
   1. Themes perhaps (colour blind options).
   2. Sound options if any.
5. Contact Page
   1. Just our details, no code.
6. My favourites
   1. Users should be able to favourite recipe, this is then added to list so that it can be viewed later.
   2. Must decide how this is stored.
7. Trending Recipes
   1. Create an updated list of list of favorited recipes done by multiple users.
8. Recipe display
   1. General dynamic display used by all pages.
   2. Must display all details of recipe:
      1. Ingredients needed.
      2. Order of preparation.
      3. Rating.
      4. Picture of dish.
9. Past recipes made
   1. Just a list of recipes the user has made.

## Data storages needed

1. Main data containing all details about recipe
2. Past recipe list
3. Favourites list
4. Settings
5. Ingredients in fridge

# Coding requirements

## Functions need

1. GetRecipes()
   1. Details
      1. Gets all recipes
   2. Returns
      1. Void but calls DisplayRecipes(RecipeList)
2. SearchRecipes(ingredients, MealTime)
   1. Details
      1. Gets all recipes based on ingredients that user has
   2. Variables
      1. Ingredients
         1. List of all ingredients a user has in its fridge.
         2. May want to use mediator to decide if general list or by user ingredients. E.g. \* means all, else it reads ingredients xml/data holder.
      2. MealTime – Breakfast, Lunch, Dinner or Any time.
   3. Returns
      1. Void but calls DisplayRecipes(RecipeList)
3. GetTrending()
   1. Details
      1. Gets all trending recipes from XML
   2. Returns
      1. Void but calls Display Recipes
4. DisplayRecipes(RecipeList)
   1. Details
      1. Creates display based on recipes provided to it.
      2. Look into splitting provided recipes into pages as to not show to many recipes on one page.
   2. Variables
      1. RecipeList – A list of all recipes to be displayed.
   3. Returns
      1. Void/The Display.
5. SaveSettings()
   1. Details
      1. Saves all changes made to settings
   2. Returns
      1. Void, but should call ApplySettings()
6. ApplySettings()
   1. Details
      1. Applies settings found in XML
   2. Returns
      1. Void but settings should be applied.
7. ReadSettings()
   1. Details
      1. Reads settings from XML
   2. Returns
      1. Void but should call ApplySettings()
8. AddToFavorites(Recipe)
   1. Details
      1. Adds recipe to XML
   2. Variables
      1. Recipe – The recipe you wish to add to favorites
   3. Returns
      1. Void
9. ReadFavorites()
   1. Details
      1. Reads data from XML
   2. Returns
      1. Void but calls DisplayRecipes(RecipeList)
10. AddToPastRecipes(Recipe)
    1. Details
       1. Adds recipe to XML
    2. Variables
       1. Recipe – The recipe you wish to add to favorites
    3. Returns
       1. Void
11. ReadPastRecipes()
    1. Details
       1. Reads data from XML
    2. Returns
       1. Void but calls DisplayRecipes(RecipeList)
12. RateRecipe(Recipe)
    1. Details
       1. Updates Rating in object in XML
    2. Variables
       1. Recipe – Recipe object you wish to change
    3. Returns
       1. Void but calls UpdateRecipe(UpdatedRecipe).
13. UpdateRecipe(Recipe)
    1. Details
       1. Updates Recipe in XML
    2. Variables
       1. Recipe – Recipe object you wish to change
    3. Returns
       1. Void.

## Coding Libraries

We are using Cordova, which lets you build hybrid applications while only using Web code

1. HTML
2. JavaScript
   1. JQuery
   2. JQuery Mobile
   3. Bootstrap