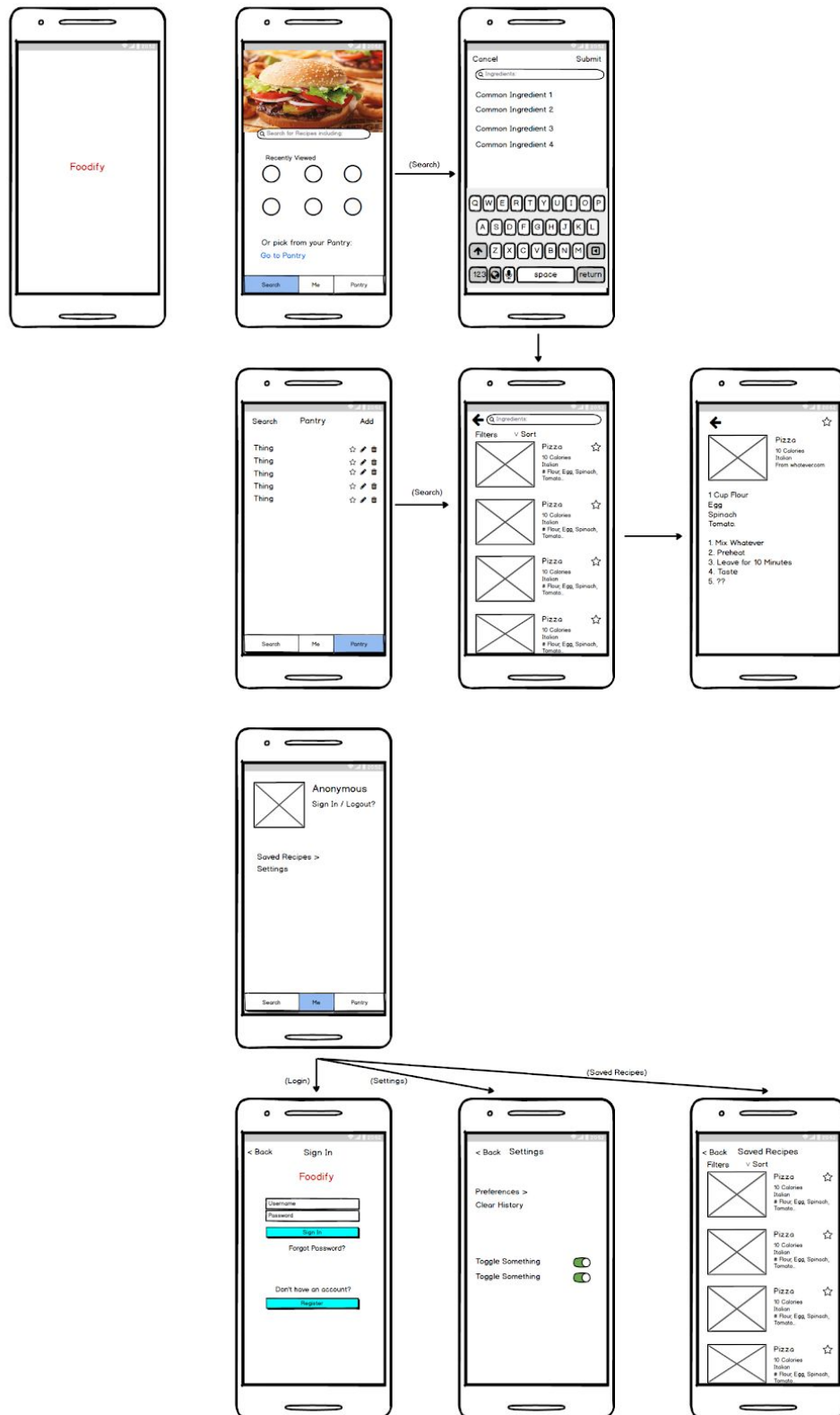


Wireframes



Third Party Libraries

- Google Firebase
 - For server support and storing user data. Each user has login information, a pantry of saved ingredients, and a list of saved recipes.
- Spoonacular
 - A well-documented api that supports an ingredients-based recipe search.
- Any necessary cocoapods for the UI

Server Support

- Google Firebase

List of Models

- SavedRecipes
 - List of recipes that the user has saved in their account.
- SavedIngredients
 - List of ingredients used to search for a recipe
- Pantry
 - List of ingredients that that the user has saved in their account.
- User
 - Login and auth info associated with a user.
- Api
 - Wrapper class for api call. Takes in a comma separated list of ingredients from the saved ingredients list, calls the api and returns a list of recipes

View Controllers

- Launch Screen
- OpeningViewController
 - Clicking on the search bar segues to IngredientsViewController
 - Clicking on Go to Pantry segues to PantryViewController
 - Populates Recently Viewed Recipes section using SavedRecipes model
- IngredientsViewController
 - Every saved ingredient is stored in the SavedIngredients model

- Clicking Submit segues to RecipeListViewController and calls the Api model. The SavedIngredients model is used to input a comma-separated list of ingredients to the Api model.
 - Clicking Cancel segues back to the OpeningViewController
- RecipeListViewController
 - Presents list of recipes that contain the ingredients in the SavedIngredients model. Recipe list populated by the output of the Api model.
 - Star icon highlighted if the recipe is in the SavedRecipes model
 - Clicking on a recipe segues to the RecipeViewController
 - Clicking on back button segues back to the IngredientsViewController
- RecipeViewController
 - Presents a single recipe.
 - Star icon highlighted if it is in the SavedRecipes model. If not, clicking on the star icon will store this recipe in SavedRecipes.
 - Clicking back button segues back to the RecipeListViewController

In addition, a menu appears at the bottom of some screens. Clicking Search segues to the IngredientsSearchViewController, clicking Me segues to the AccountViewController, clicking SavedRecipes segues to the SavedRecipesViewController, and clicking Pantry segues to the PantryViewController.

- AccountViewController
 - Clicking SavedRecipes segues to SavedRecipesViewController
 - Clicking Settings segues to SettingsViewController
 - Clicking Sign in segues to LoginViewController
- SettingsViewController
 - TBD
- PantryViewController
 - Ingredients fields populated by Pantry model
 - Clicking the star icon next to an ingredient saves it to the SavedIngredients model
 - Clicking the search button segues to RecipeSearchViewController. The Api model is called using input from the SavedIngredients model.
- SavedRecipesViewController
 - Saved recipes list populated using SavedRecipes model
 - Clicking back returns to the previous screen on the navigation stack

Timeline

<u>Week</u>	<u>Timeline</u>	<u>Task</u>	<u>Dependencies</u>
2	11-12-19 to 11-19-19	Complete Api model leveraging Spoonacular apis(Ashwin)	
		Research Google Firebase(Sarmad)	
		Complete Pantry and SavedIngredients models(Aaron)	
		Create Storyboards and segues for Login, Opening, Settings, and Account screens(Stephen)	
3	11-19-19 to 11-26-19	Complete User model(Sarmad)	Google Firebase Research
		Complete IngredientsSearchViewController, RecipeViewController, and RecipeListViewController	Api Model
		Complete PantryViewController, SavedRecipesViewController	Pantry Model, SavedRecipes Model
4	11-26-19 to 12-3-19	Integrate SavedIngredients model and Pantry model with User model	User, Pantry, SavedIngredients model

		Integration and Testing	
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Testing Plan

- First, use friends, family, and other classmates for testing. Reach out to other UCD students if we need more input.
- Qualitative Measures(Scale of 1-5):
 - User Experience - How easy was it to navigate through the app?
- Yes/No:
 - Functionality - Were you able to find a recipe that fit your needs?
 - Usability - Was there any delay on specific screens like login/search screens?