

Afrldge:

We are Afrldge (pronounce "A-I-fridge") created by Jinglin Shan, Tarek Abdelghany, and Brian Rossi for final our project of Stanford's CS147 during Autumn of 2016.

GENERAL USAGE AND BACKGROUND:

Our application was created by our team of designers and engineers as a one-stop, food management app to help out with your daily interactions with your food inventory, shopping, and cooking. Our application is designed for iPhone 6 (or later) that operate on 10.1.1 iOS operating system.

OPERATING INSTRUCTIONS:

To download our application, download our project's .ipa file onto your computer, connect your phone to your computer and then click on the phone icon to access your phone's settings in order to install our application. After installed, you can unplug your phone from the computer and begin using our application.

Once installed onto your phone, you will immediately begin to start interacting with our application. Upon opening our app, your first view will be the inventory screen with pre-loaded data.

Bottom Navbar

Across the bottom of all main views in our app, you will see a blue navbar with four items labeled "Inventory", "Grocery List", "Recipes", and "Progress". The view that you are currently on will be highlighted in this

navbar. In order to switch to any other views, simply tap the icon that corresponds to that view.

Inventory View

From this view you can interact with all of the items in your "pseudo" inventory. The inventory items are sorted alphabetically, but you can search for any specific item via the search bar in the top right corner. Tap on any of the item icons to view the item's details. From here, you can edit/delete the item, add it to your grocery list, or view recipes that include this item. The colored rings surrounding each inventory icon represent how fresh the food in your fridge is, with green meaning fresh and red meaning expired. You can also manually add any items into your inventory via the 'plus' icon in the top right of the screen.

Grocery List View

The grocery list view is an interactive view to help you while shopping in the supermarket. It is split into 2 different lists, "To Buy" and "Bought", which are separated by a ticker button at the top of the view. You can switch between either of these lists by clicking the corresponding button at the top. As you are shopping, when you select an item in the supermarket, simply press the empty check box corresponding to that item on the "To Buy" list and that item will then be moved to the "Bought" list. Once you are finished shopping, navigate to the "Bought" list in order to select the "Done Shopping" button where you will be presented a summary of your shopping trip and your newly bought items will be added to your inventory for you once confirmed. To add any items to your grocery list, simply select the select the '+' button on

the top right corner. At any time, you can swipe left on an item on your list in order to delete or edit.

Recipes View

The recipes view is where you can search for and discover new recipes, or simply view one of your favorite recipes. This view has two lists, again separated by a ticker view at the top, named "Favorites" and "Recipes". The "Recipes" list is a list of all of the recipes in the application, and the "Favorites" list is the list of all recipes that you have favorited in the past. You can search either list via the search bar in the top right corner that will search the recipes for your keyword in the ingredients and recipe title. You may also sort either list via the sort drop-down button by "Alphabetical", "Rating", "Difficulty", or "Cook Time." Selecting on one of the recipes in either list will bring you to a recipes detail page that will hold all of the relevant information for the recipe, including a recipe list, a description, a video tutorial, and more. To navigate to the video tutorial, simply select the "Video Tutorial" button. To add or remove from favorites, tap the "Favorite" or "Unfavorite" button. The ingredients list is presented in the middle of the page, where the ingredients you do not currently have in your inventory will show up in red. You can select the "Add missing items to grocery list" button to do just that.

Progress View

The progress view is a hard-coded picture of the type of tracking of your food waste we would be able to accomplish if we were to implement the computer vision theoretically backing the application.

LIMITATIONS & WIZARD OF OZ TECHNIQUES

1. All data in inventory, grocery list, and recipes is, while editable and interactive, completely hardcoded.
2. Closing and re-opening our app will lose all of your edits and data changes.
3. Computer vision and machine learning that supports are idea are just theoretical; we will not be able to detect food being added/removed to your fridge.
4. Progress graph is static and does not track actual progress made on food waste.

For any other questions on our application, please contact any of our team members --

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