

System Concept

Prototype

Pilot Test

**Group 3: Fresh Alert I Smart Fridge Application****Group 3: FreshAlert**

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Client Information: We will be acting as our own client, as our application targets a general public sector need. In targeting this need, we will be working with third-parties to gather information and research. However, we will serve as the client that is targeting and profiting from the application.

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Group 3: Fresh Alert | Smart Fridge Application

1. There are no smart fridge applications that automate the food storage inventory management process. The 'FreshAlert' system that we're striving to develop in collaboration with Samsung will be revolutionary in refrigeration: balancing healthy diets, managing the expiration of the products in your refrigerator, and cutting down time wasted manually inputting products into other smart fridge applications. Using our simplified receipt scanning system, users can better organize and maintain their perishable food products, view the various combinations of items they have on hand, and describe the nutritional analytics of the food stored. Our mission is to reduce food waste and promote healthier eating habits in the everyday household.



2. We decided to do the main features like recipes, grocery lists, etc. more in depth because they are the main features of the application. Things such as all the settings options and separate apps were less in depth, with only one example for each page (music app being interactable for apps page, profile going to another screen in settings) as they aren't as central to the usual work flows.

3. We started by determining a target market that fit the description of possible customers for our offering. Surveys were administered by each team member to learn more about their food shopping routines, refrigerator organizing styles, and level of attraction to smart refrigerators. We then developed a user persona based on survey data to pinpoint certain requirements and preferences. Our user experience was designed with this personality in mind to make sure it highlighted the most important features of our product. We tested our paper prototype by asking a stranger to use our interface to accomplish a predetermined task in order to assess our design. This testing provided important information on areas that needed to be adjusted or improved.



4. To begin the walkthrough of our Fresh Alert UI display prototype, you are first greeted with a Hello message at the lock screen. At the bottom of the screen is says: "Tap to begin". After tapping anywhere on the screen, it will bring you to our next page, which is our profile selection. There you can select a profile, or create a new one. After selecting a profile, you are brought to the home page. On our home page, there is many different areas to explore. We have settings, weather, Inventory, Recipes, Grocery list, and more apps. At the bottom across all pages moving forward from the home screen, have an option to use a voice assistant, scan receipt, home, go back a page, and notifications. These are all neatly organized as a task bar at the bottom of the fridges display. By clicking on inventory, you are brought to a screen that shows every item stored in your fridge. Going back, and clicking on recipes bring you to our official Fresh Alert curated recipes. From there you can choose a recipe, and once selected you can add all required ingredients to your cart. Going back to the home page, clicking on grocery list takes you to a page where you can add or remove items to your current list. Hitting the back button and returning to the home page we will now click the settings icon. From there we can see our profile settings, other family members, and Samsung support. Clicking on Samsung support allows you to see the last time maintenance was preformed, you can request a repair, or view your warranty information.

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5. In order to conduct our pilot test we had a set goal for the user (such as creating a grocery list) that allowed them to explore different aspects of the product. The user would select their profile and then go into any of the different tabs on the menu screen. They would then use the features on the next screen, like the grocery list, to auto generate a new grocery list based on a filter that would exclude any items that one of profiles has an allergy to. One important feature we learned was that finding apps like the music tab was slightly difficult due to the simplicity of the other tabs (i.e. weather). However, we did not make any change to the icon because of how universally recognized it is. We did change