**Subject #1**

**Pre-Test Questionnaire**

*When you go to a grocery store, how likely are you to ask someone for assistance:*

*1=very likely to ask for help and 7=not likely to ask for help.*

1 2 3 4 5 6 7

*How would you rate your experience level at using smartphone applications?*

*1=not experienced and 7=very experienced.*

1 2 3 4 5 6 7

*How would you rate yourself at using the camera of a smartphone to take clear pictures? 1=Not really good and 7=Very good, I take excellent pictures.*

1 2 3 4 5 6 7

*In general, how challenging is the task of grocery shopping?*

*1=very challenging and 7=easy, no problems.*

1 2 3 4 5 6 7

*Do you have any comments specific to yourself that you’d like the design team to know?*

No Comments. Subject is of the low-vision persona type.

**Data Collection Sheet**

**Task #1: Listening and understanding the user manual of the product.**

*Number of readings of the user manual:*  1

*User comments:*

“This is clear enough. Lines up with what I know from my VoiceOver use.”

*Examiner Comments regarding observations:*

* The user found the instructions clear enough. Didn’t require any further explanations.

**Task #2: Taking a clear picture of the overhung aisle sign.**

*Number of attempts needed to take a picture of the sign:*  2

*User comments:*

“Did it take the picture? ”

*Examiner Comments regarding observations:*

* The image was blurry on the first attempt.
* Relatively easy to find the location of the sign since the user is a low vision visually impaired person. The contrast between the color of the sign and the ceiling was such that it wasn’t difficult to locate.
* It took her 7 seconds to position the camera and take the picture of the sign.

**Task #3: Taking a clear picture of the product.**

*Number of attempts needed to take a picture of the product:* 6

*User comments:*

“The price is still not included???”

“The main problem is that with my low vision, I can’t include both the product and the price in my view.”

“This application needs to be more flexible. It is way to brittle right now.”

“It is difficult for me to position the camera so it only captures one item.”

*Examiner Comments regarding observations:*

* Price wasn’t included in the first 5 tries.
* Subject was feeling embarrassed, even though we told her that we weren’t testing her.
* More than two products were in view at the same time on 3 of the images.
* Adapted easily to using the volume button for picture taking.
* User really had to focus a lot and took her 45 seconds on the last picture to get it right.
* Subject would sometimes position the camera correctly, including the centred product and its price, but would then move upwards and miss out on the price.

**Post-Test Questionnaire**

*With an application like this one, how likely are you to ask someone for assistance in grocery shopping: 1=very likely to ask for help and 7=not likely to ask for help.*

0 1 2 3 4 5 6 7

*Would you use an application like the one being proposed?*

*1=I would never use it and 7=I would use every time I go grocery shopping.*

0 1 2 3 4 5 6 7

*Would you recommend this application to other members of the visually impaired community?*

*1=I would never and 7=I would definitely recommend it.*

0 1 2 3 4 5 6 7

*Do you have any comments or criticism you’d like the team to know regarding the application?*

* Need to make it easier for me to take a picture of the product and price.
* The application is presently too brittle. I wouldn’t recommend it to others if it remains this difficult to take pictures.
* Where is the section on the shopping list?