Adapting a Scanning Assessment Tool to Meet the Needs of Beginning Communicators

Overview

The goal of this project is to abstract a way to provide and asses automatic scanning for children with physical and communication disabilities.   Our team is adapting an existing tool, Scanning Wizard, so it can be used by beginning communicators. The program's task is as an assessment tool that would be used to evaluate the impact of different types of switches and switch locations. The structured layout of photos along the screen allow the child to narrow down their choice for the assessment. The project goal is to help the children accurately make their choice from the available selection.

Objectives

The main objective is to build upon the previously designed UI as to continue the design and implementation of an easy to use scanning tool for children. The continued use of pictures will keep the design idea of ease of use by children.

Approach

- Gathered our customer's input as to what they'd like to see as the final result
- We met as a team and drew up prototypes and generated an initial design
- We researched other similar products to see where those ideas could fit into our project
- Discovered any patents that we could violate through our design
- We performed extensive testing once our design was programmed
- We validated our one to one mapping test results with the initial scanning tool

Outcomes

- Children now have a tool to communicate and assess their level of scanning
- Our sponsor can now test with real life test subjects and see how it can fit in into their clinical sessions
- Our sponsor was able to receive a working product without us using any of the allotted money allowance (besides the poster)