Online Review System for People with Developmental Disabilities

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Background & Motivation
Developmental disability (DD) is a condition that results in intellectual functioning significantly below average. Many people with DD even have trouble learning basic life skills such as reading numbers and counting money. Currently existed tools to help these people were designed for younger children and thus others are not interested in using them. As a result, those people are still heavily relying on one-to-one tutorial sessions with care-givers, which is inefficient and time consuming.

Objectives
- help people of all ages to learn basic skills
- provide reviews on numbers, uppercase and lowercase letters, shapes, colors, etc
- facilitate the process of administering an individual's progress

Methods
We worked with Imagine! to design a system that is most helpful to their clients, including the type of reviews, limiting distraction, adding reinforcers, recording client performance.

Results & Conclusion
The five review applications were well received by users in the study. Users who normally use flash cards to do similar reviews reported that using these applications on an iPad was more enjoyable. They all agreed that the questions and choices were clear and easy to understand.

Our study revealed promising results for the application and showcased the necessity for such application. By providing a simplistic interface with entertaining reinforcers, adults of various ages can learn and practice daily fundamentals much more quickly and more enjoyable.

Future Work
- study current applications that provide similar services
- finish the system and incorporate findings from preliminary studies
- conduct long-term user study with a complete system

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