Notes from Johnson Family Meeting

People involved in the discussion:

**Mike** is the Father. Worked for LDS Church, but now is in Pharmaceuticals  
**Teresa** is the Mother, of 7 children.  
**Josh** is a junior in High School. He has had cochlear implants.  
**Timothy** (Ti-ti) Is 13. Dreamed of Glasses helping him understand, Timothy loves video games and rifle shooting.   
**Janelle** – Interpreted for students who used keyboards in a computer lab environment. Students couldn’t look at her and the screen at the same time.  
  
  
Discussion Summary:

They have little classroom interpretation – Josh had an interpreter in 2nd Grade.  
Father interpreted for the church.  
Josh is used to and more familiar with closed captions rather than ASL because of availability.

Timothy had a dream about being able to see what people were communicating with him.

Janelle’s comments:Students in a computer lab, they had to sit behind the computer so they could see her. They couldn't look at her and the computer... and would miss information and as an ASL interpreter can't hold that much info, there is still a large portion that CI won’t work for　  
Josh would like to try having AR glasses. He felt this would provide better integration than to use a mirror in a movie theater for closed captions.  
Current solutions to provide services for the deaf seemed to be exclusive (exclude the deaf). The glasses would provide a way to include them.   
Josh found it pretty easy to move back and forth between the AR glasses and distant images.  This may be due to the fact that he is used to closed captions.  
He would like it a lot if it looked like 3D glasses.  
As a prototype, Josh would wear the VRealities model.  However, he would not want it for real life use.

Q&A

Have you ever been to a planetarium? Yes.

Have you ever used interpreters? Their father was interpreting for them when they were younger in church, on general conference they would look at their dad instead of the speakers, biggest challenge that the kids would prefer to see text instead of someone signing ASL to them, they did not like the extra attention an ASL interpreter brought to them. Instead of an ASL interpreter they would watch general conference on the TV and have closed caption on. closed caption when they were younger didn’t help because there was no reading skills attained at that time but now that they are older they prefer closed caption in case they miss something they did not catch by using cochlear implants device.   
  
Is it harder to hear with a big audience?  
Cochlear implants maximize (make it louder) other sounds such as fans, traffic, etc. and that is a distraction when they tried to focus on something. In a large audience it is difficult to hear.  
  
How old was Josh when he started preferring Closed Caption as compared to ASL?  
Around 9 years old. It is frustrating when there are some media that does not have closed caption. There is a large portion of CI that it does not work. Therefore this project will help that population.  
  
As the CI maximizes certain noises, in a classroom environment have you ever wanted to turn off the CI device and have someone sign it to you?  
No, they would rather sit center front as possible as to pay close attention to the lecture. When they were younger they had some ASL interpreter in school, but eventually whey they were pretty functioning with the CI they decided to not have ASL interpreter anymore.  
  
Josh tell me about your experiences when you go to a movie?  
Sometimes I miss something important to the story he likes to rent a redbox movie and have closed captioning in order to get something he missed while in the Movie Theater.  
  
If you had an opportunity to go to movies with glasses that allowed him to see captions, would you wear it? Yes because it would be better than their current text scanning devices, it is distracting device because the need to be looking down to see the text. For Timothy it is hard for him to understand something in the movies and he would rather rent movies and put closed caption on it. These glasses would be an inclusive device, because renting a movie is an exclusive device that requires the person to go away from everybody else.  
  
Do you find that you miss a lot of information at school?  
He has special classes to help him in the learning, they need to study what kids take 3 years of studying in one year. They work in a lot of basics stuff, this is all due to communication problems and therefore they need a lot more efforts to understand all information being passed through the teachers. They would rather take a little more efforts and time in school than to have an ASL interpreter in the class just for them, it is an embarrassing experience for them.  
  
In school when presented with opportunities to watch ASL interpreter and a speaker, they would rather focus on the presenter than the ASL interpreter.

When watching a movie with Closed Captioning do you feel you miss something on the screen because you were reading the closed captioning?  
No because they are so used in reading the text closed captioning that they read it quickly and then their eyes go back to the movie scene immediately.  
Question for Janelle: do you find students miss some information while looking at an ASL interpreter and a computer screen? Yes mainly because computer lab is small and therefore students will either focus on computer screen or on ASL interpreter. It would be better if there were a bigger space and they may be able to see both computer screen and ASL interpreter at the same time. These glasses will work really well by letting them see both ASL interpreter and computer screen at the same time.  
  
The prototype according to Tim is problematic in the sense of it is heavier on one side of the glasses.   
  
While wearing the glasses can you switch between ASL interpreter and a presenter or video with no problems? Yes. He can focus on both things with no problems at all. He can go back and forth with no difficulties.   
  
Would he wear the prototype glasses into a movie theater? As a prototype yes, but he would like something that takes less attention to himself, like a 3d glasses we have these days.  
  
Would you feel comfortable being the only one wearing glasses in a movie theater together with your friends?  
If they look like the 3D glasses in these days then he would wear them with no problems.  
  
What would facilitate them the most to help them understand better the world around them?  
The closed captioning on the bottom of glasses. Also changing the text color when different people are talking would help him to keep track who is talking.  
  
What don’t you like about closed caption?  
Nothing, they like closed captioning.