



MACPAS

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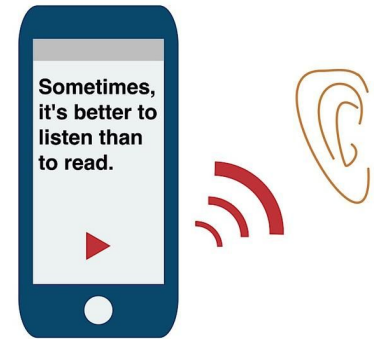
Challenge Info

- ALS patients that have difficulty speaking and moving require PAS (Partner Assisted Scanning) to communicate.
- The challenge is to combine aspects automated and manual approach in the form of a app which also requires minimal movement from the patient
- Requirements:
 - Easy to see
 - Whole screen act as switch
 - Message visible at all times
 - Text to speech function
 - Run the application without internet

A	B	C	D		
E	F	G	H		
I	J	K	L	M	N
O	P	Q	R	S	T
U	V	W	X	Y	Z

Demonstration/Features

- Clear and backspace to fix mistakes
- Text to speech and speech when scanning
- Large fonts and simple design for readability
- Division of letters by vowels
 - Patients are used to this method
- Text is always visible
- “GO BACK”



Future Implementations

- Eye-tracking
- Personal accounts
 - Tracks common words and suggests the best for clients
 - Utilize machine learning to optimize
- Suggested/Predictive Text
- Use Google Images API to find images of predicted or related words