cietal Impacts

Once implemented, the device could yield societal impacts such as, 1) Societal- Providing normalcy to those who otherwise might be marginalized, 2) Ethical- By returning some normalcy to the user, we level the "playing field" when it comes to social independence, 3) Economic- with social independence comes economic opportunity; especially in the midst of a pandemic, where smartphones have become sources of income, this opportunity is important.

Technologies

This technology

recognition be able
to parse accents and
languages, which
would result in
complete vocal
control of the phone.
Eye tracking will be made
more precise so that complete ope
of the phone will be able to occur t
eye control. Braille detection could
occur through implementing a
physical screen that would
dynamically change and be able to
make bumps and/or braille
symbols so that for each braille
spot a button is detected on
the application for braille
feedback.

An Accessible Phone For the Disabled

A peripheral centric smartphone for disabled users, this product is smartphone device. Some technical distinctions include:

Gigabytes of RAM. As for functional device is capable of recognizing technology, and lastly, software-e.g. magnifier, large-text

A peripheral centric smartphone for disable users, this product is smartphone device. Some larger screen size, USB-ports, and 8 requirements, it's pivotal that our device is capable of recognizing the tour device is capable of recognizing users' eye movements, be assistive technology, and lastly, software-e.g. magnifier, large-text

Compatible with wired and wireless possess basic accessibility keyboard, text-to-talk

USB 3.0 Ports

Societal Challenges

The three societal challenges we can identify are cost, acceptance, and accessibility. When the phone releases, it and its supported peripherals must be priced reasonably, but still be priced high enough to make a profit. If the manufacturers of the

peripherals drive up their prices, this could lead to the phone's user base leaving due to a lack of affordability. Acceptance is also an issue, as many disabled people struggle to come to terms with their disability, especially when it comes to announcing it publicly. As these phones would be rather easy to identify, it could lead to some who have a need for the phone being reluctant to buy a model. Lastly, accessibility is another issue. It's extremely difficult to account for all potential troubles a disabled user

AUX Port

Joseph Morelli, Adam Paul, Joshua Schladt, and Jaden Williams

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Opportunities

Our team identified that many current smart-phones rely on one or more senses that many disabled people do not have. The blind are unable to see screens, the deaf are unable to hear cell phone calls, and those without arm function cannot use touch navigation. Thus, we sought to accommodate these users with an accessible smartphone compatible with peripheral accessibility devices.

could encounter with using a phone, so frequent

accessibility updates would need to be done in

order to maintain systems and add more

accessibility features.