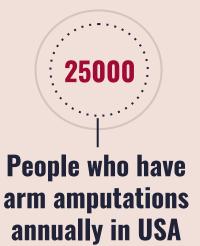


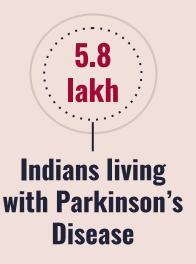




WHO DOES A TOUCHSCREEN/TRACKPAD LIMIT?



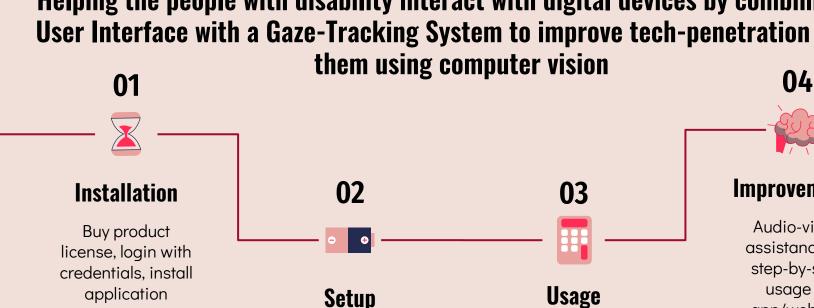




Millions of People with Disabilities (specifically cerebral, locomotor, and multiple disabilities) are held back from using technology due to the conventional design of input interfaces. Existing solutions are not accessible or affordable for the general Indian population. For instance, a keyboard for people with CP retails at ₹81,000. It is also often not compatible with phones and tablets.



Helping the people with disability interact with digital devices by combining the User Interface with a Gaze-Tracking System to improve tech-penetration among



Enable environment and allow webcam access on your device

Usage

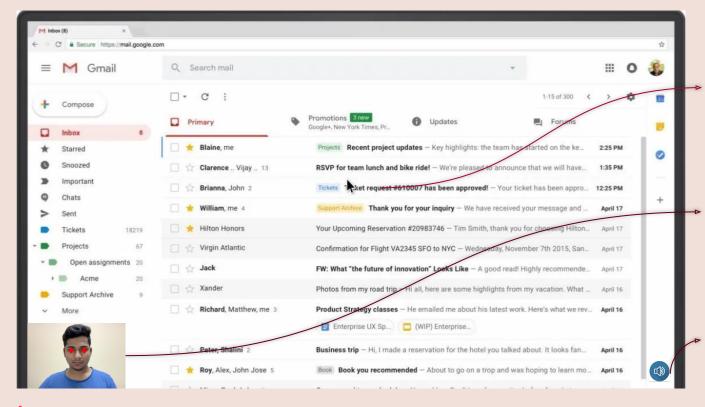
Move the cursor through moving eyes, click by long blink, double click by nodding

Improvements

Audio-visual assistance for step-by-step usage of app/website

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User Interface



Mouse Tracker

The cursor moves with the movement of the user's eyes

WebCam Feed

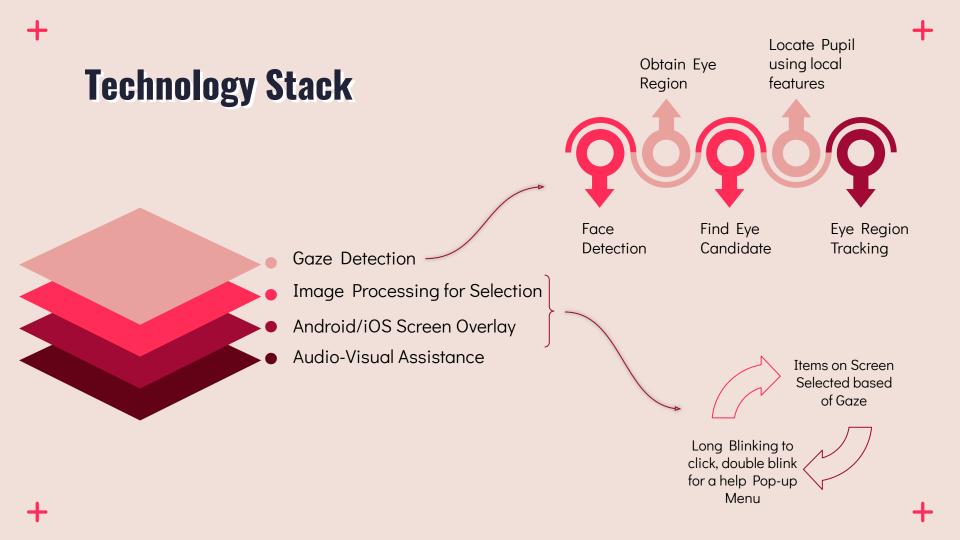
Detection of the movement of eyes using computer vision

AV Guidance

Audio-visual guidance for step-by-step usage of app/website







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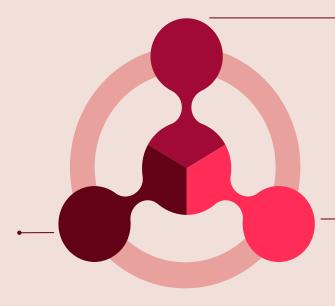
Feasibility Analysis

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FINANCIAL

Costs:

- Material Costs: Hardware
- Research and Development Costs: Hardware and Software
- Business Costs: (manufacturing, marketing, sales and support)
- Estimated Material Cost: ₹55,000 ₹60,000 per system for each high resolution, high frame-rate camera.
- Cost-Lowering Approaches:
 Commercial-over-the-shelf-cameras,
 Build on top of existing Image
 Processing Libraries.



ORGANIZATIONAL

Resources:

- Team of software developers, designers, market experts and special-needs experts.
- Third Party Integration with Web Interfaces.
- **Software**: Compute Resources, Relevant Datasets.

MARKET FEASIBILITY

- Similar Products: KEY-X, myGAZE, Eyegaze Edge.
- Integration of Audio-Visual Assistance increases reach and adoption of the system.
- Removal of educational and technological barriers.









Accessibility



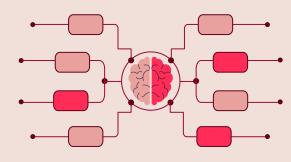
Scalable Model

No Hardware components are required, making the solution suitable to anyone with limb impairments



Cost Effective

The only expense involved is for an internet connection, which is much more affordable than existing hardware-based solutions



Platform Agnostic

The user experience remains identical across several platform choices









Impact

Benefit to Individuals

The ability to navigate technology independently not only instills self-reliance, but also boosts self-esteem and morale.

Breaking Barriers

Millions of students struggling with disabilities will find themselves equipped with access to education and jobs.

Fostering Inclusivity

We move one step closer to helping people with disabilities use technology for their advantage.



Promoting Innovation

Our product opens up avenues for further research in educational technology for students with disabilities.

Future Directions

We aim to enlarge our enterprise through creating partnerships, offering subsidies, and eventually enabling large-scale supply.







THANK YOU