



Hocrux



SignBridge

No sign shall be left unheard!!

The Open Spellbook of Innovation

The Theme ? Why Open Innovation?

- Sign-Bridge is being made under open innovation so that no sign remains unheard.
- Open innovation invites cross-disciplinary collaboration
- We ensure universal reach – anyone, anywhere, can benefit.



The Unheard Incantation

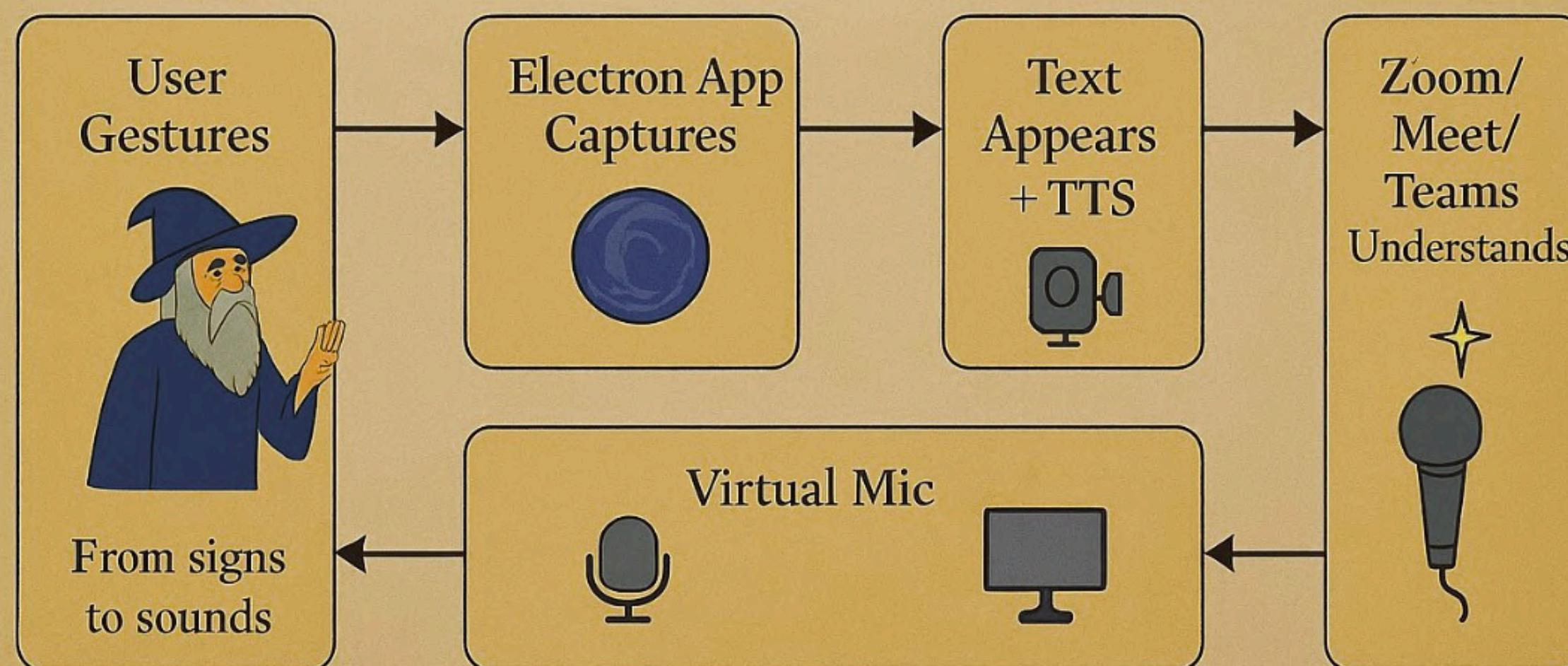
The Problem ? What's the Silent Spell?

- Thousands of individuals who communicate through sign language face a lack of real-time accessibility in mainstream video conferencing platforms like Google Meet, Zoom, and Teams.
- Current tools offer limited or no live sign language recognition, making conversations exclusionary.
- This gap leads to communication delays, social isolation, and reduced participation in digital spaces.
- The "magic" of expression remains invisible when hands can't be heard.



The Spell(Solution)

★ Casting the SignBridge Spell



From signs to sounds, streamed directly into any magical meeting room!



The Magic Behind



The Magic Behind the Spell



Mediapipe Hands – The Sorcerer's Lens to see and track gestures in real time.



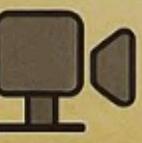
Custom Gesture Model – trained to recognize vital signs like 'Hello', 'Help', etc.



JavaScript & Electron – Our magic wand combo for building a cross-platform app.



Text-to-Speech Incantation Converts gestures to voice with browser spell: `speechSynthesis.speak()`



Virtual Camera & Mic Charms Streams translated video/audio into Zoom, Teams, and beyond





A Glimpse into the Grimoire



Real-time translation, overlaid directly on your magical meeting. Not just magic – it's SignBridge.



The Wizard's Heart

The Wizard's Heart: Why This Matters



"Deaf and mute people can be in the same meeting... but are they ever in the same conversation?"

- SignBridge brings equity to the digital table
- Reduces isolation and empowers unheard voices
- Boosts confidence and participation
- Builds a world where no hand wave goes unnoticed



Because silence should never mean invisibility.



Future Spells



- Multi-language Support: Translate gestures into ‘Bonjour’, ‘Hola’, Namaste’ and more
- Emotion-aware TTS: Smile detected → cheerful voice; sad face → empathetic tone
- Custom Sign Training: Let users teach personal signs to the system
- Multi-purpose Approach: Sign Language-->Text-->Voice



Meet the Wizards



Ishita Goyal



Arjit Sharma



Apoorv Mehta



Steehitha Thati

THANK YOU
NOBLE COUNCIL

Being different isn't a bad thing. It means you're brave enough to be yourself.

