MECH MINDS

Flex Glove

Unveiling the Voice of Silence

HELPING THE VOICELESS

Increasing Human Value

We at MechMinds decided to help people that are ridden with disabilities. With our limited resources and time we decided to make a product that helps people with speech and hearing impairment.

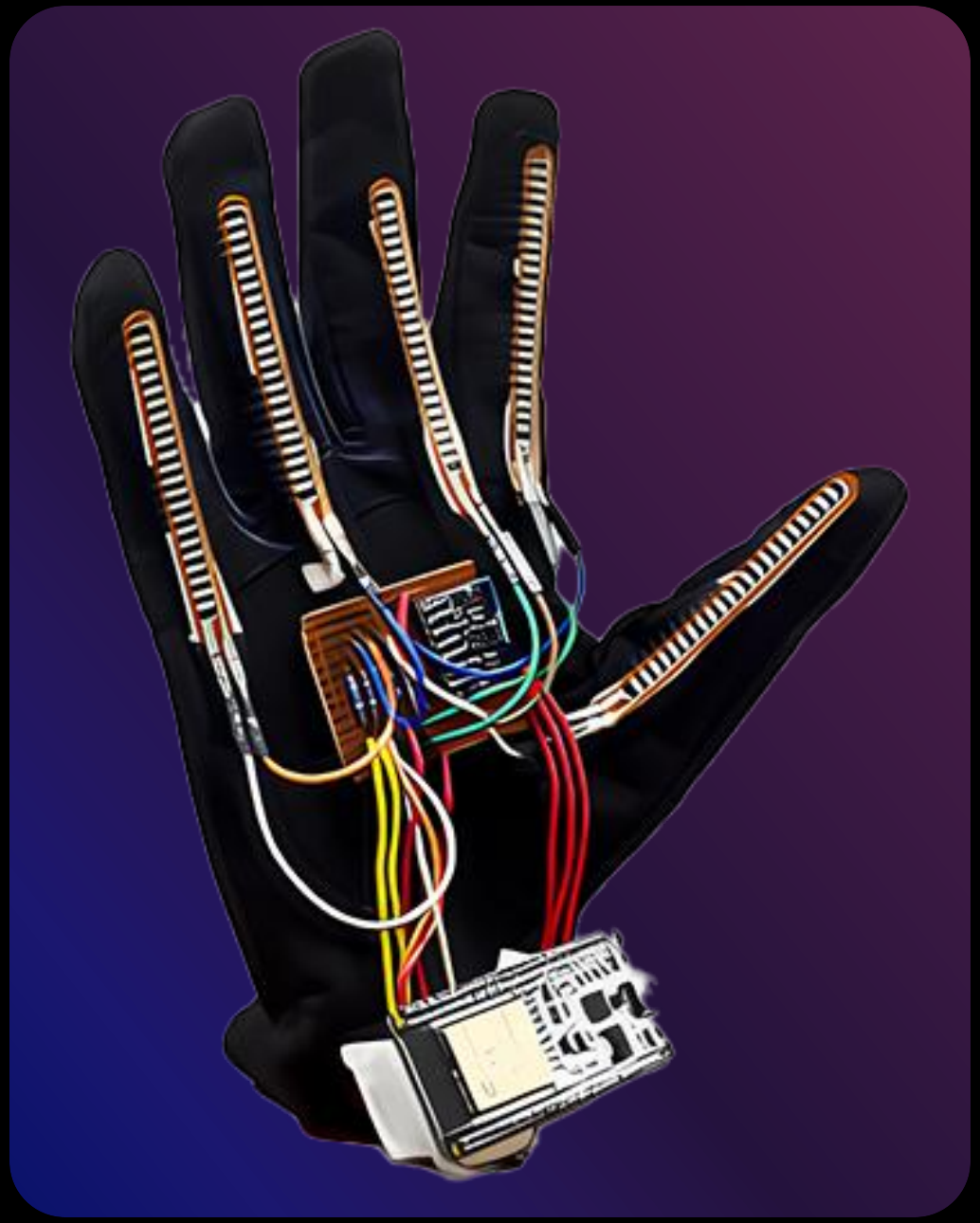
People with Speech and hearing impairment use sign language to communicate which is widely unknown.

Nominal Devices

What already exists?

- Normal Text to Speech are not only inefficient, but they do not solve very basic problem, inclusivity.
- Discrimination is the act of treating people differently based on an identity.

- We wanted to make a product that makes mute community more inclusive and welcomed and makes them feel less discriminated against.



Medical Devices

What we bring on table?

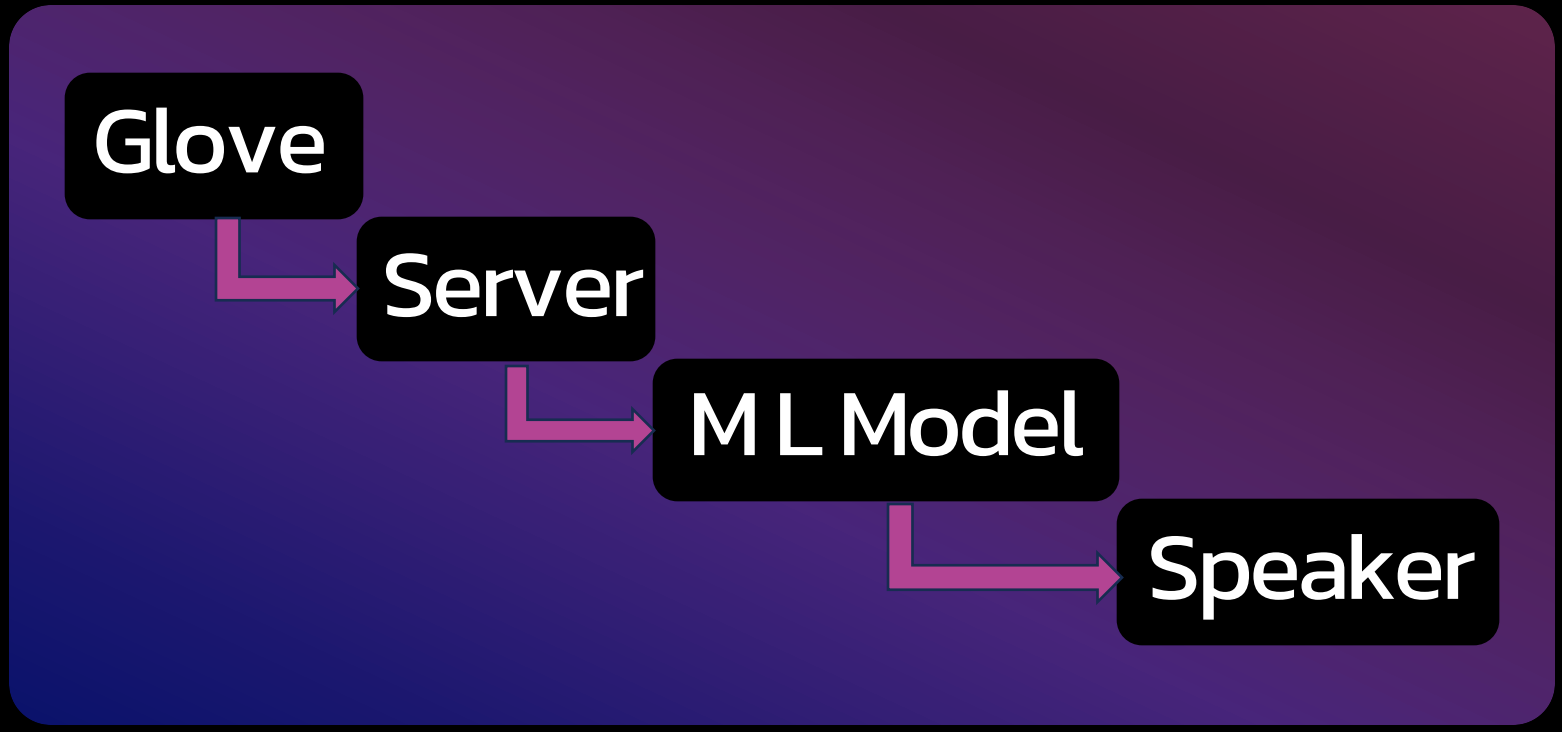
A product that gives a voice to the voiceless!!
(Literally)

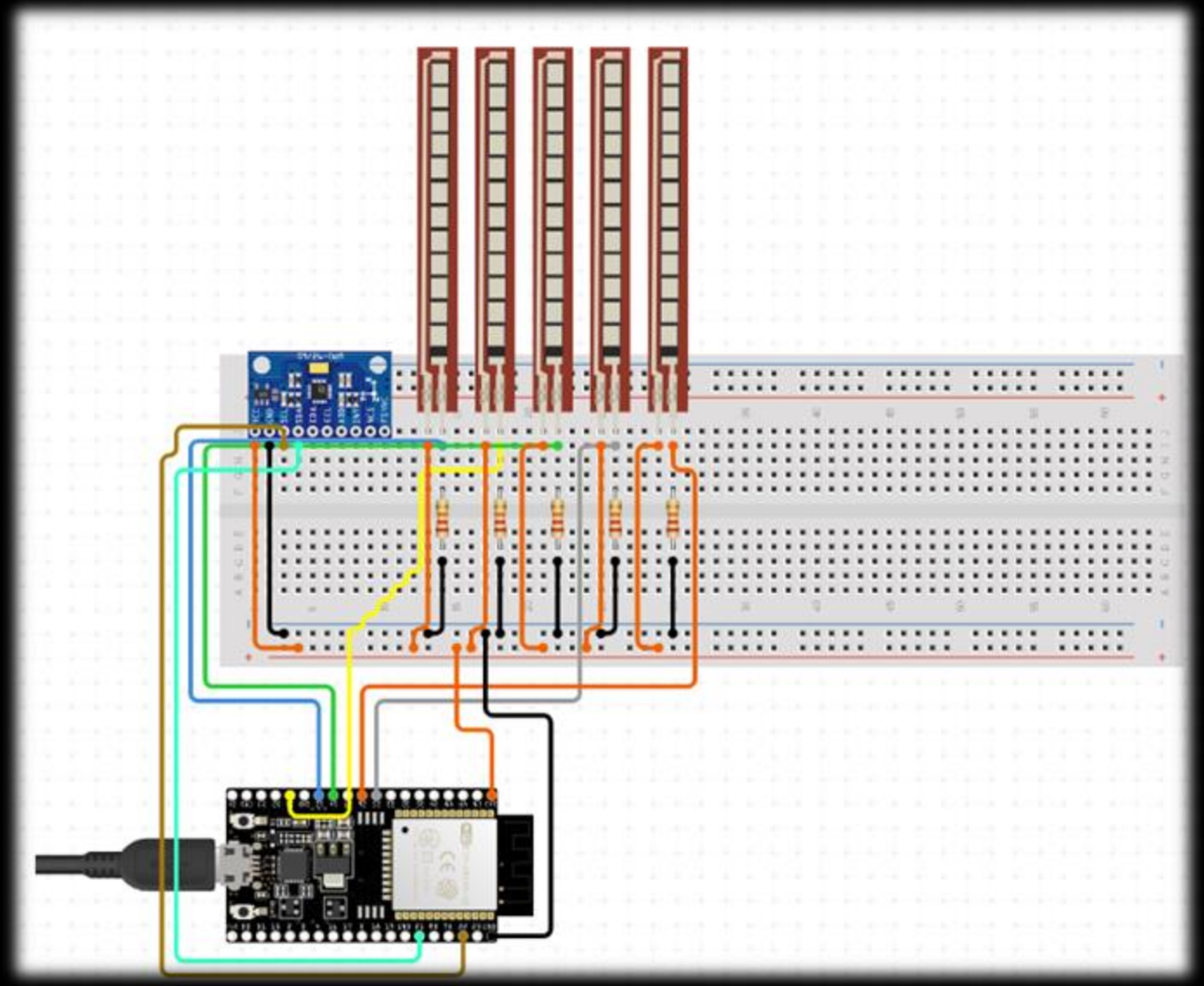
Flex Gloves is the result of electronics, Software Development and Machine Learning brought together with innovative ideas and hard work.

Introduce yourself to

FLEX GLOVE

Methodology



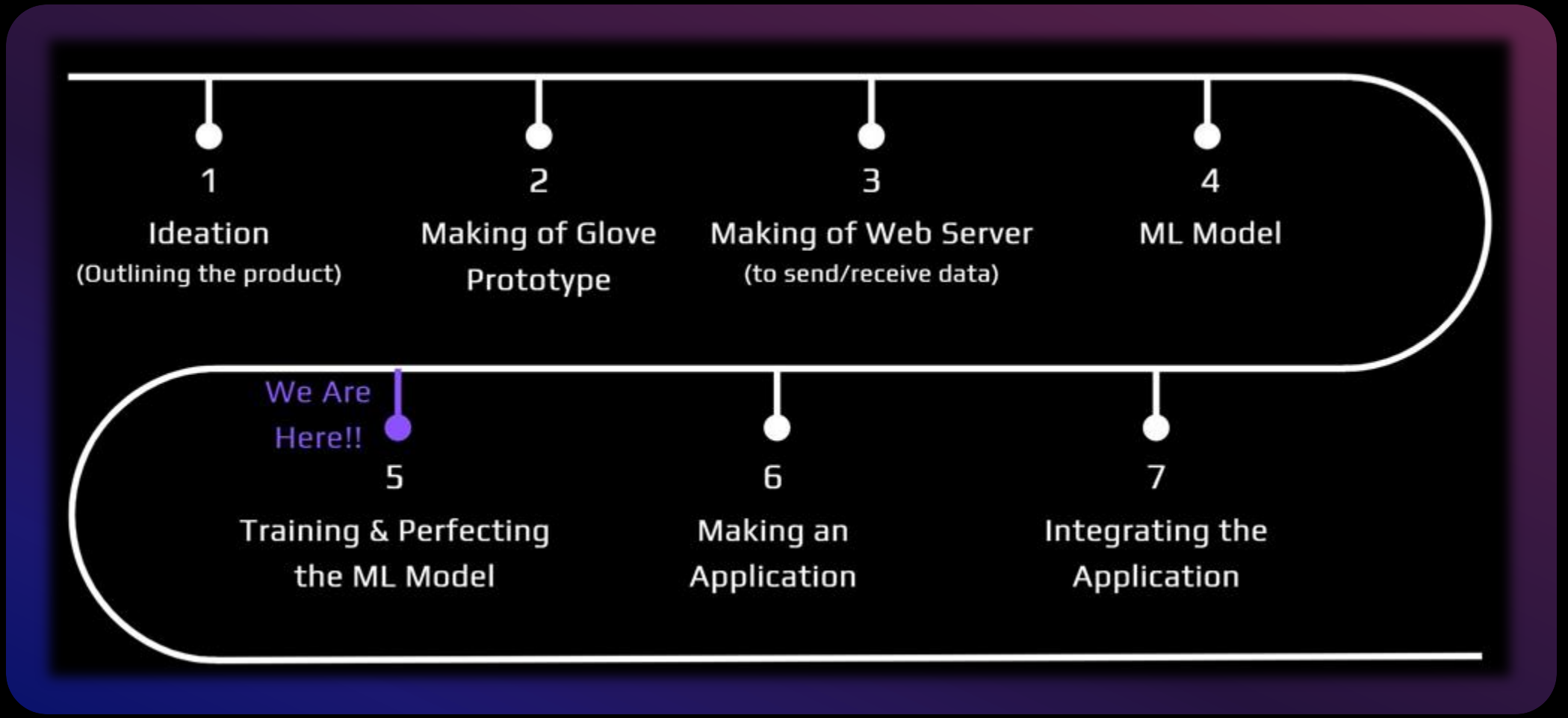


Circuit & Simulation

- The circuit depicted in the picture beside is the actual circuit used on our flex Glove.
- Flex sensor flags finger's movement with output mapped to angle of bent.
- Gyroscope and Accelerometer (MPU-6050) tracks the movement of hands.
- NodeMCU (ESP-32) is used to transfer data wirelessly to host System.

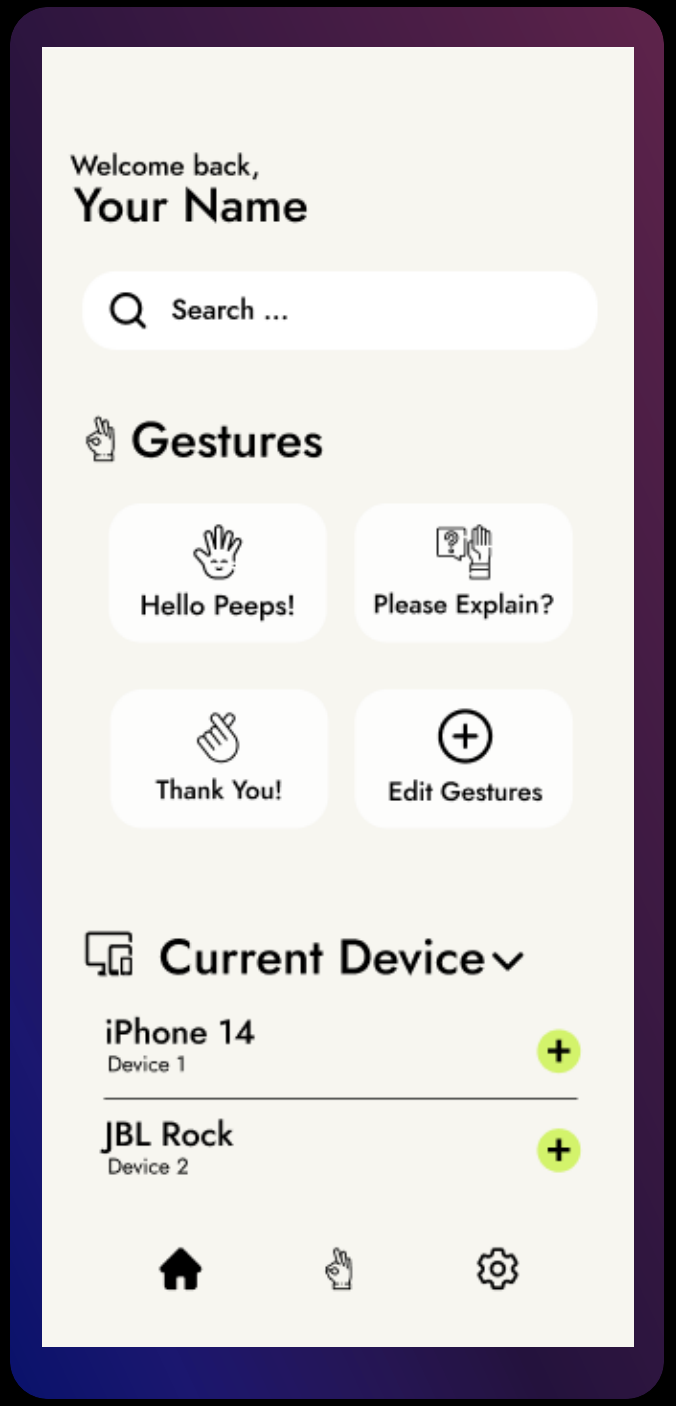
Vision

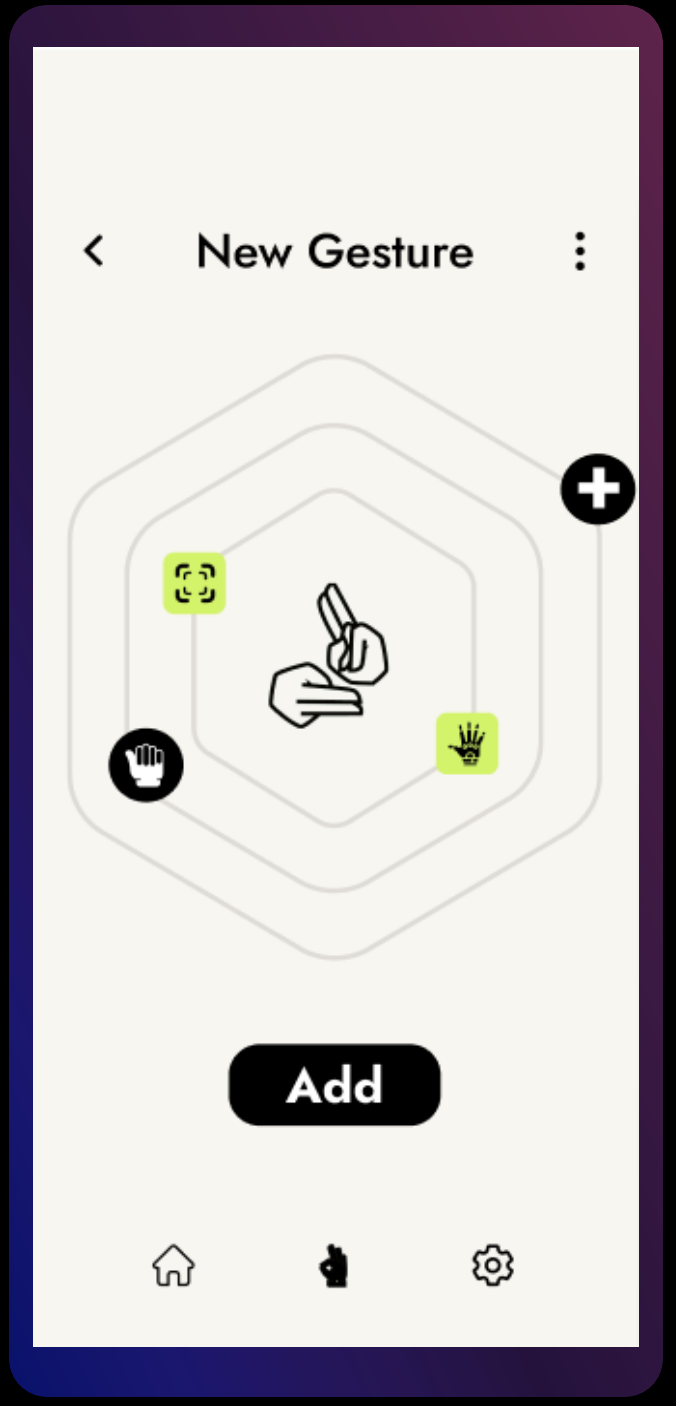
TIME LINE



Future Prospects

AN APP!





Our Product is built different

Secret Applications

Using the Sensors on the glove, the user can play any tune of the selected musical instrument like Guitar, Piano, etc.

This functionality can be accessed through the app.

This gives flex-gloves whole new usability and takes away boring vibes.

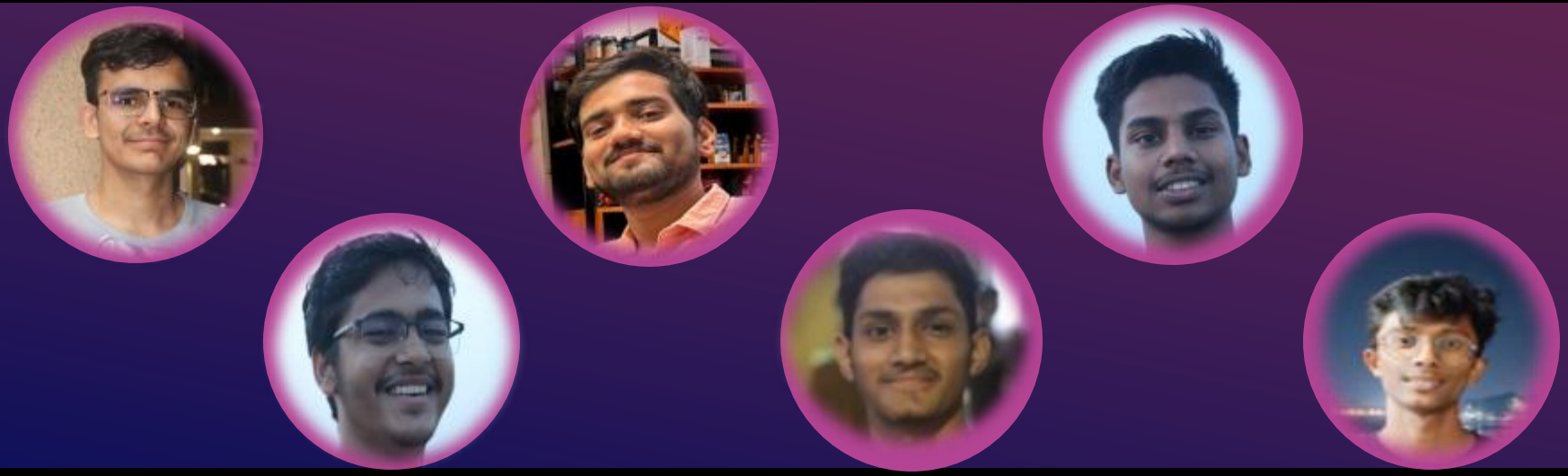
From adding a new gesture to adding a whole sentence for a gesture, everything is possible.

Additional features are possible with everything present and available on app itself.

OUR REQUEST

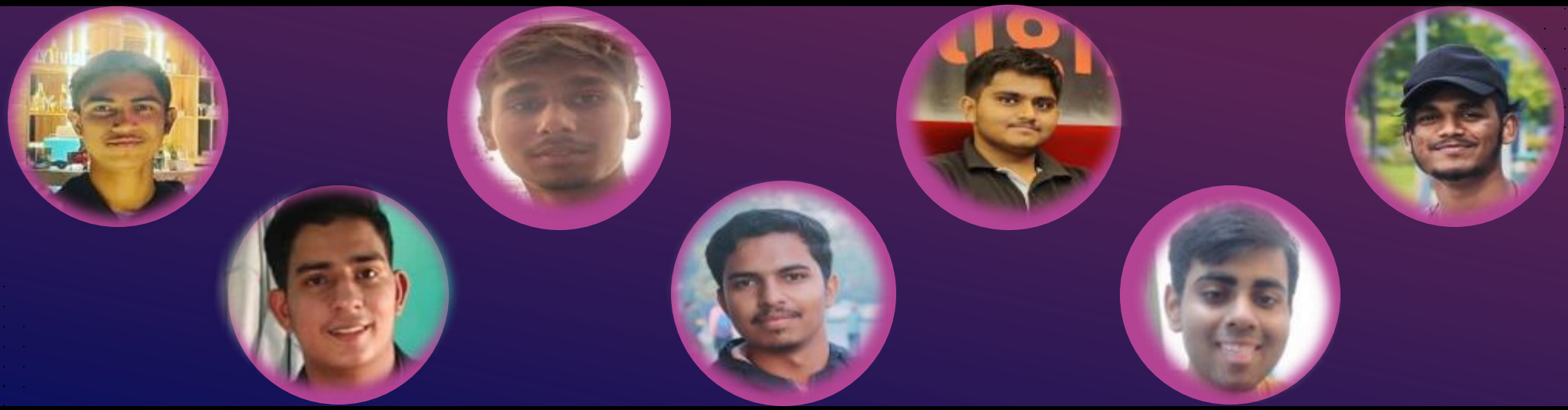
“**BEFORE** ENGINEERING HELPS EVERYONE, RESPECT AND EMPOWER THOSE WHO NEED IT.”

TEAM MECHMINDS



"We may not be experts, but our knowledge does not hold us back our efforts"

TEAM MECHMINDS



THANK YOU

for your time.