

# ● Passion for music & teaching

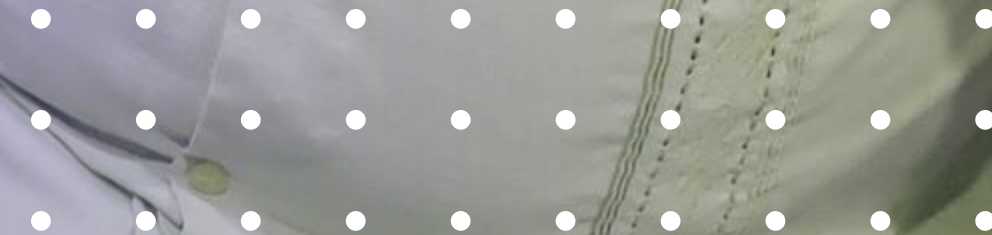






# Challenges in Education

## Saving Key Details





Independant  
and  
empowered





# Some facts

1.3

BILLIONS

*Experience  
disability\**

60

MILLIONS

*Completely  
blind\*\**

70%

OF VISUAL IMPAIRMENT  
STUDENTS

*Has barriers in education\*\*\**



## OUR TARGET



Blind individual, low  
vision, and student



*“We need a tool that  
empowers them and allows  
them to overcome this  
educational barrier”*

\* World Health Organization - Disability”

\*\* Orbis - Avoidable blindness. Blind people by 2050

\*\*\* Journal of Blindness Innovation and Research - Access to Math and Science Content for Youth Who Are Blind or Visually Impaired





# Bright Path

Education without barriers

Hack for accessible  
personalization  
and recommendation



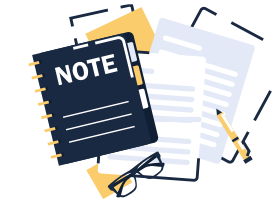


# Value proposal

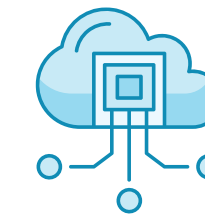


**Empowering  
through a  
seamless  
multilingual  
assistance.**

Based on



**Facilitating  
note-taking**



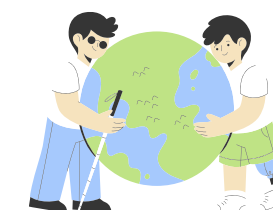
**Use of Microsoft  
Azure AI services.**



**User  
Centric**



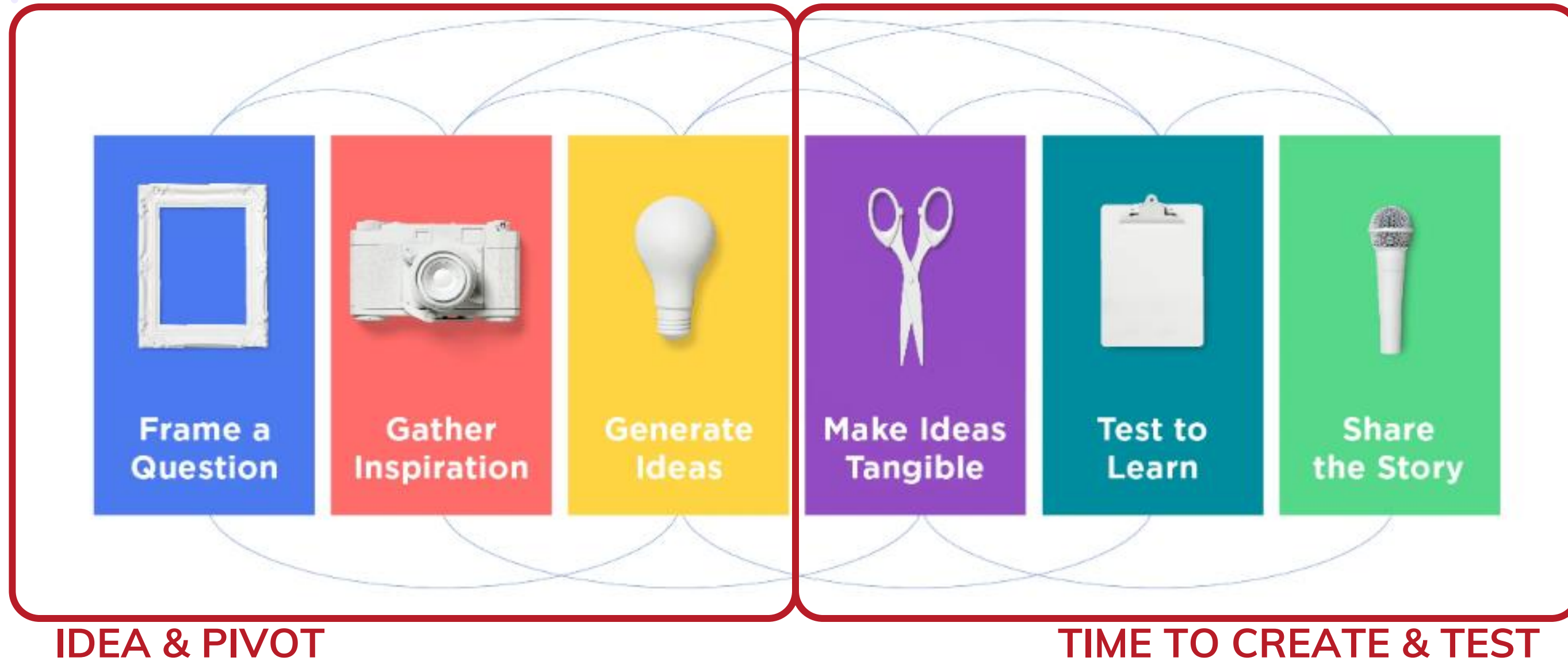
**Accessible via  
web browser.**



**Nothing about us,  
without us**



# Methodology



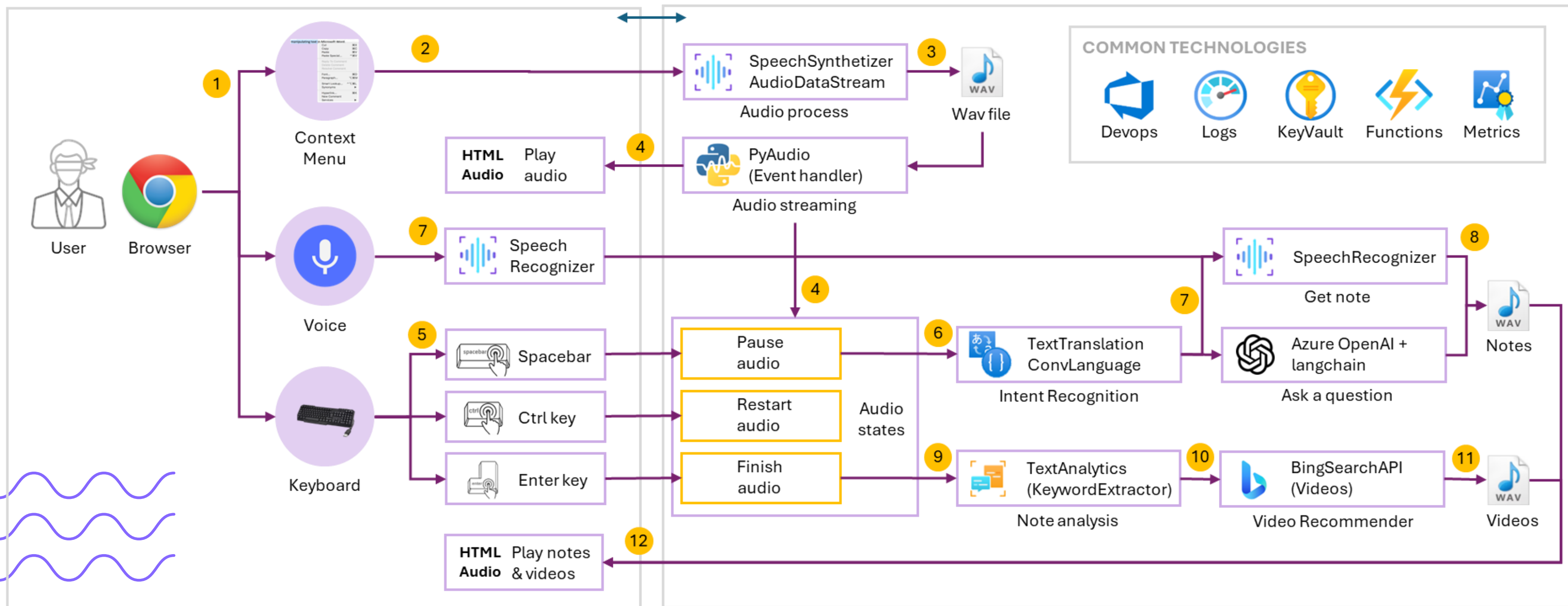
## Design Thinking



# Architecture

CLIENT

SERVER







# Architecture (explanation)

## Steps

- 1 **Input:** The user selects text, right-clicks, and chooses Bright from the context menu.
- 2 **Process audio:** The selected text is sent to the server and processed by the synthesizer.
- 3 **Audio creation:** A .wav audio file is created.
- 4 **Event handler:** The file is sent to the browser and activates the event handler.
- 5 **Spacebar event:** Pauses the audio.
- 6 **Input:** The user listens, and what they say is processed by an intent recognizer.
- 7 **Intent recognition:** Either a personal note is saved or the text is analyzed by question via OpenAI.
- 8 **Audio creation:** It is stored in a list of notes, and then a .wav audio file is created.
- 9 **Enter event:** Ends the audio and sends the list of notes for keyword analysis.
- 10 **Recommendation:** Recommends videos based on keywords.
- 11 **Audio creation:** The videos are stored, and then a .wav audio file with the titles is created.
- 12 **Client response:** It is played in the browser.



Create a language resource through <https://language.cognitive.azure.com/>:  
Create a project and 2 intents: "get\_note" and "infer\_text". Utterances for training are:

## get\_note

- # NOTE
- We used 50 utterances for a robust training, but for testing purpose you can get around 10 and could be enough

- ## Bright Path





# Key features

Interactive Reading

Powered by Azure

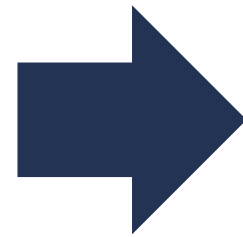
Privacy-centric

User-centered design

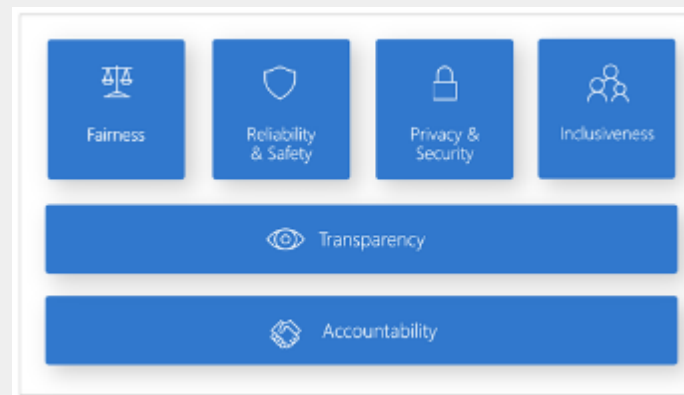
Accessibility standards

Multilanguage

Error-proof (Tested)



## Compliance for



Responsible AI



Web Content  
Accessibility Guidelines

## Link to the solution

<https://github.com/tomas-pucutay/brightpath-hackaton-microsoft/>

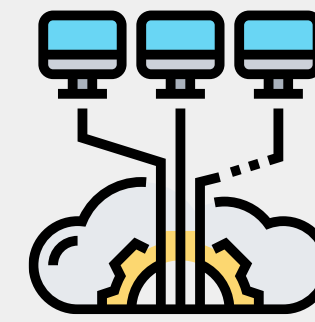


# What comes next?

## Future Applications



## Technologies to be deployed



## Future Markets



## Next Steps







# BrightPath's Team



**Feliciano**  
Partner



**Tomás**  
Tech strategist



**Hugo**  
Researcher



**Tony**  
Product Owner



**Fer**  
Frontend (UX/UI)

## Our keywords

entrepreneurship

artificial\_intelligence

latin america

azure



código\_facilito

## Get in touch!



[/nestorespinozaurco/](#)

[/tomaspucutay/](#)

[/tony-carballo/](#)

[/itzama/](#)





Thank you