







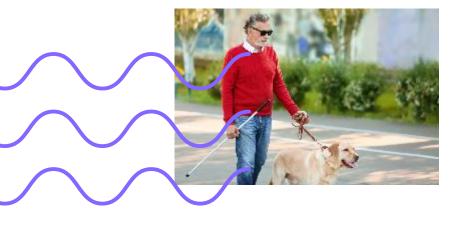
### Some facts

13
BILLIONS
Experience disability\*

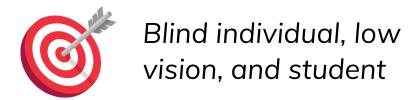
600
MILLIONS
Completely blind\*\*

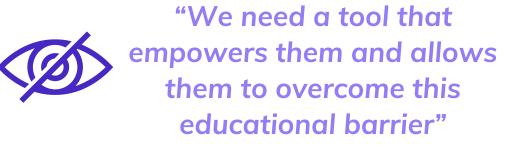
70%
OF VISUAL IMPAIRMENT STUDENTS

Has barriers in education\*\*\*



#### **OUR TARGET**





- 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

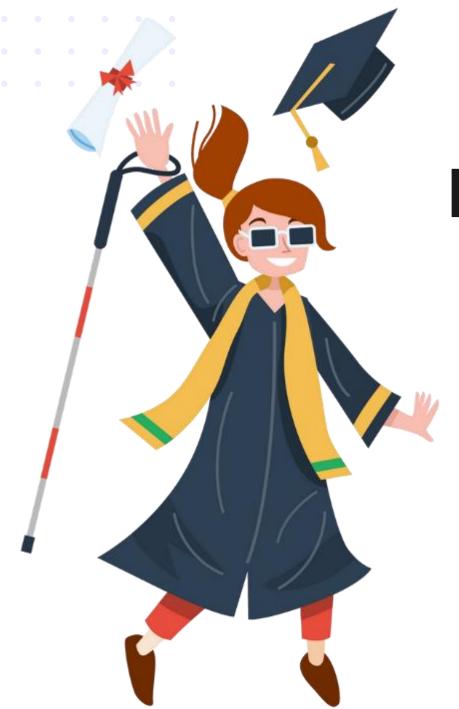
Bright Path

005



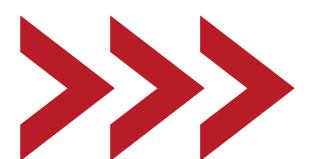


# Value proposal



Empowering through a seamless multilingual assistance.

Based on







Use of Microsoft Azure Al services.



User Centric



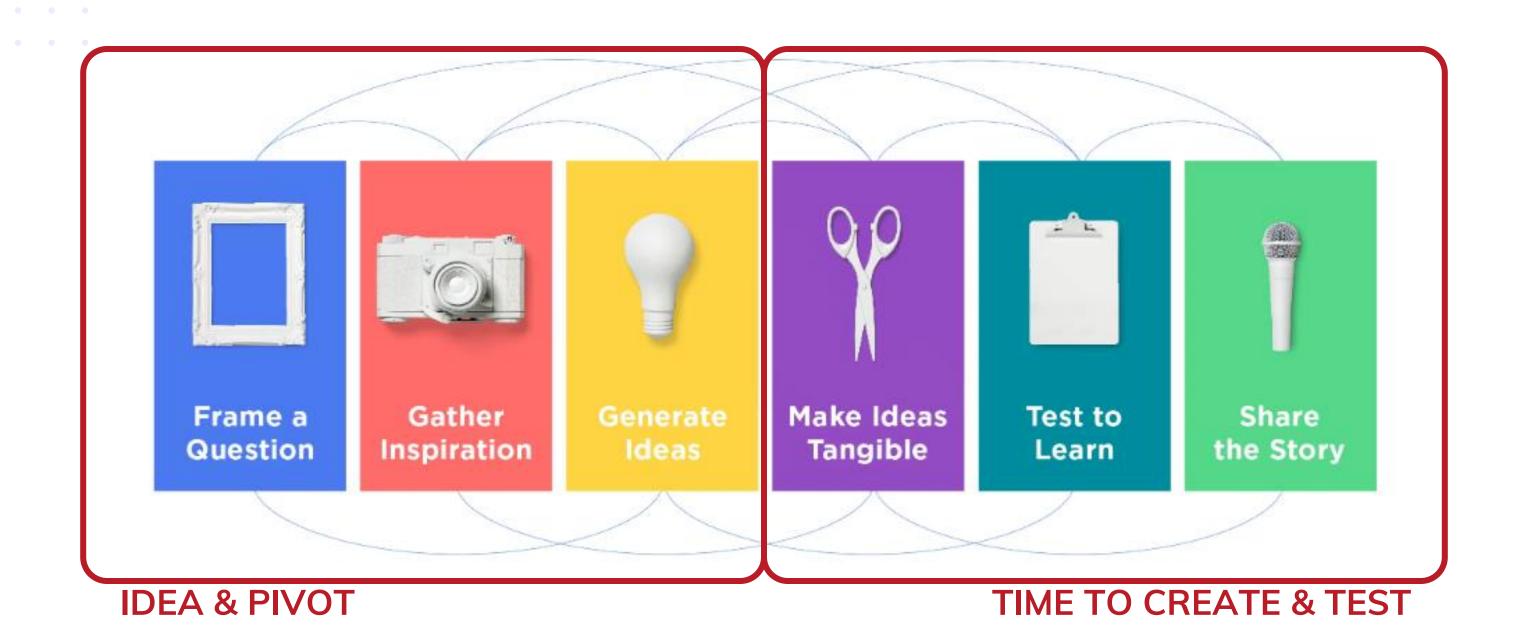
Accessible via web browser.



Nothing about us, without us



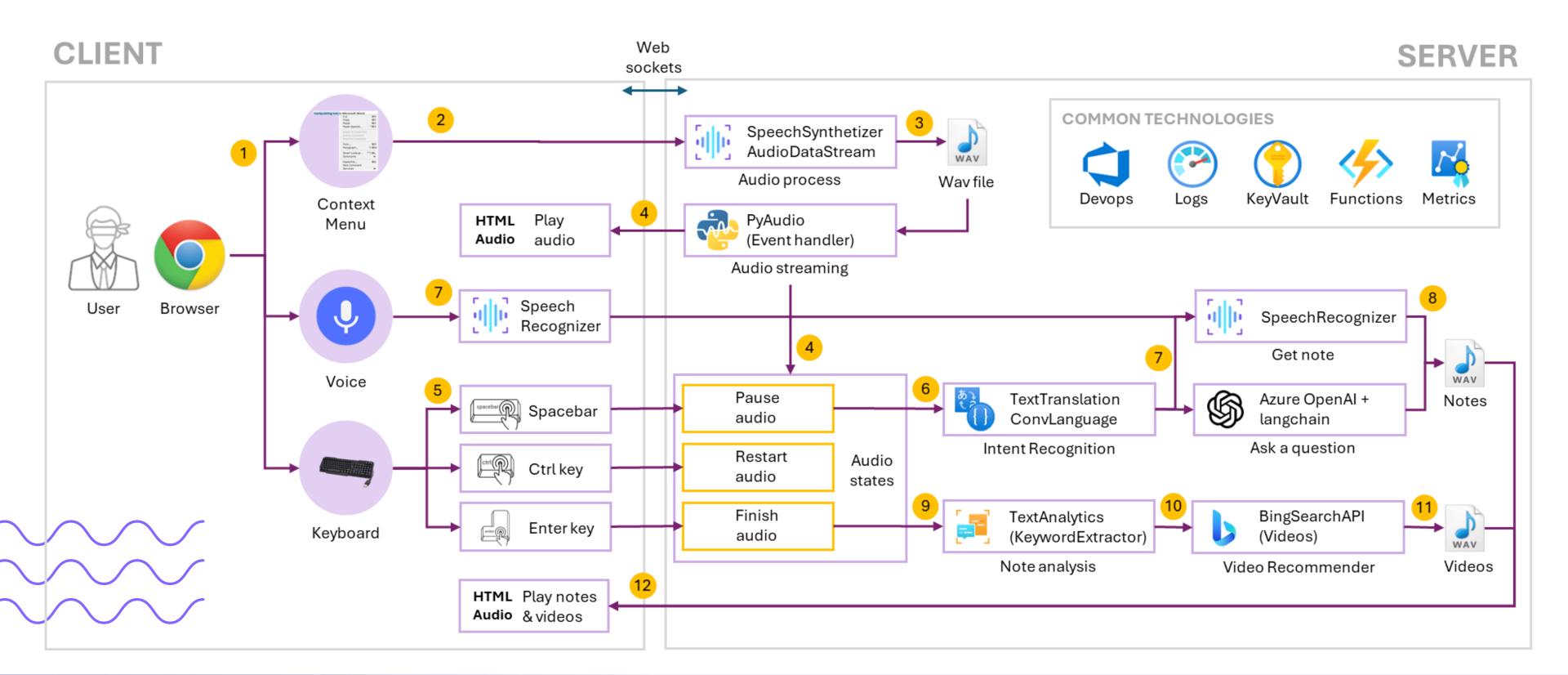
# Methodology



**Design Thinking** 



### Architecture





## 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.
- 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 OpenAl.
- 8 Audio creation: It is stored in a list of notes, and then a .wav audio file is created.
- 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.



## Specific Resource

#### **Conversational Language Understanding Details**

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:

#### infer\_text

- What does that mean?
- Can you summarize what I just heard?
- Tell me more about that
- Can you give me a summary?
- I want to ask a question about this
- What does it mean?
- Give me more information about that
- Can you explain that?
- Explain this to me
- I want to know more about this
- What is the meaning of that?
- Summarize it for me
- Can you elaborate more on this?
- Explain it in detail
- What does it exactly mean?
- I need more details about this
- I want to understand this better
- Give me an explanation of this
- Summarize it briefly
- Can you infer more about this?
- Can you explain what I just heard?
- What else can you say about this?
- I need an explanation
- Give me an analysis of this
- Can you infer something more?

- Explain more about this topic
- I need to understand this better
- What does this information mean?
- What is the summary of this?
- Give me a synopsis of this
- How do you interpret this?
- What does all this mean?
- Help me understand this
- Break this down for me
- Can you detail this?
- I need an interpretation of this
- Give me a clear idea of this
- Can you summarize?
- I want to understand the meaning of this
- What is the essence of this?
- What does this imply?
- I want a clarification on this
- Explain this to me in detail
- What is the context of this?
- Give me more context on this
- What can you infer from this?
- Explore more about this point
- What is the key information here?
- What can you say about this?
- Give me a detailed explanation of this

#### **NOTE**

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

- Save a voice note
- I want to save this
- Take a note
- Save note
- I want to make a note
- Save this as a note
- Add a note
- Take note of this
- Save this for later
- Save this as a voice note
- Add a voice note
- Save this
- I want to note something
- Save a note about this
- Record a note
- I want to record this
- Make a note of this
- Record this as a note
- Save this message
- Save this audio
- Note this down, please
- Record this information
- I want to take a note
- Make a record of this
- I need to save a voice note

Archive this information

get\_note

- Make a recording of this
- Add this to my notes
- I want to take a note for this
- Put this in a note
- Capture this
- Save this audio as a note
- Take a recording of thisI want you to save this
- I want to take a voice note
- Record this for me
- Make a record of this, please
- Archive this for later
- Create a note with this
- Note this message
- Save this recording
- I want to record a voice note
- Memorize this
- Save this data
- Make a note of this, please
- Save this in my notes
- I want to save this message
- Record this in a note
- Make a voice note with this
- Take this as a note



## Key features

Interactive Reading

Powered by Azure

Privacy-centric

User-centered design

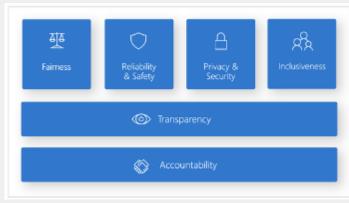
Accesibility standards

Multilanguage

Error-proof (Tested)



#### **Compliance for**



Responsible Al



#### Link to the solution

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



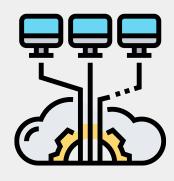
## What comes next?

### Future Applications





### Technologies to be deployed





#### **Future Markets**





### Next Steps







# BrightPath's Team



Feliciano
Partner



**Tomás**Tech strategist



**Tony**Product Owner



**Hugo** Researcher



Fer
Frontend (UX/UI)

#### Our keywords

entrepreunership

artificial\_intelligence

latin america

azure



#### Get in touch!



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/tony-carballo/
/itzama/

