



# PRONUNCE PAL

CHANDHANA BIRLA

GAYATRI VUNNAM

LAKSHMA REDDY CHADA

SIRISHA MITTAPELLY

# INTRODUCTION

A Web application that helps users in improving their Pronunciation and in the enhance their communication by providing Pronunciation assessment service.



# RECORDED DEMO

Link to the Recorded Demo of Pronunce Pal

[Meeting with Birla, Chandhana-20231203 205701-Meeting Recording.mp4](#)



# PROBLEM

## PHONETIC AWARENESS

Learners may not be fully aware of the nuances of phonetics in a new language

## STRESS AND INTONATION

Effective communication involves not only accurate pronunciation of individual sounds but also correct stress and intonation patterns.

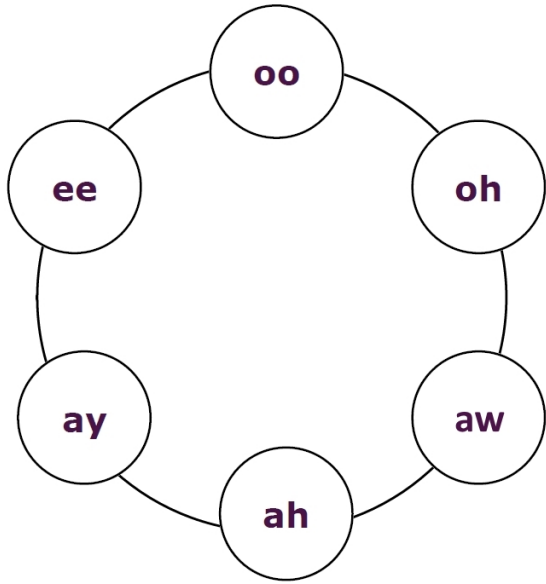
## SPEECH CLARITY

Some learners may struggle with articulation and speech clarity.

# SOLUTION

- This project would involve leveraging AI technologies, including speech recognition and natural language processing, to evaluate and provide feedback on a person's pronunciation. Distributed systems can be employed to handle the scalability and performance requirements of processing large volumes of audio data.
- Setting up a distributed system to handle the processing of a large number of audio recordings concurrently. This may involve using cloud-based services, containerization





---

Syllable Level Assessment



---

More Accurate Results



---

User Analytics

KEY WINNING FEATURES

## TARGET MARKET

- Both individuals and organizations are a significant target market for pronunciation assessment tools. These tools enhance language learners' abilities by offering feedback on their pronunciation, aiding in skill improvement.



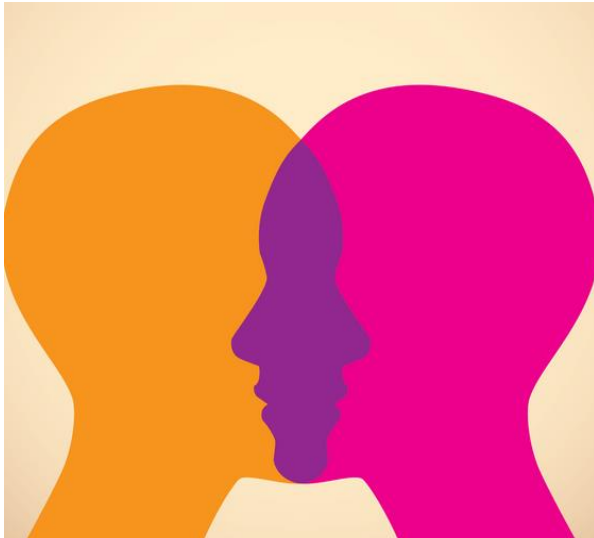
## VALUE PROPOSITIONS

- Improves communication skills making life easier.
- Encourages learning new languages.
- Makes assessing easier for educational institutions.
- Telecommunication companies use speech assessment tools to improve voice recognition and customer service interactions through automated phone systems.



# JUSTIFICATION

- Pronounce Pal will be a great tool for Educational Institutions and other organizations which includes Language Learning. It comes very handy for Individuals who are eager to improve their language fluency and also communication skills.
- It is very useful for telecommunications industry and also in Medical industry for diagnosing speech disorders.

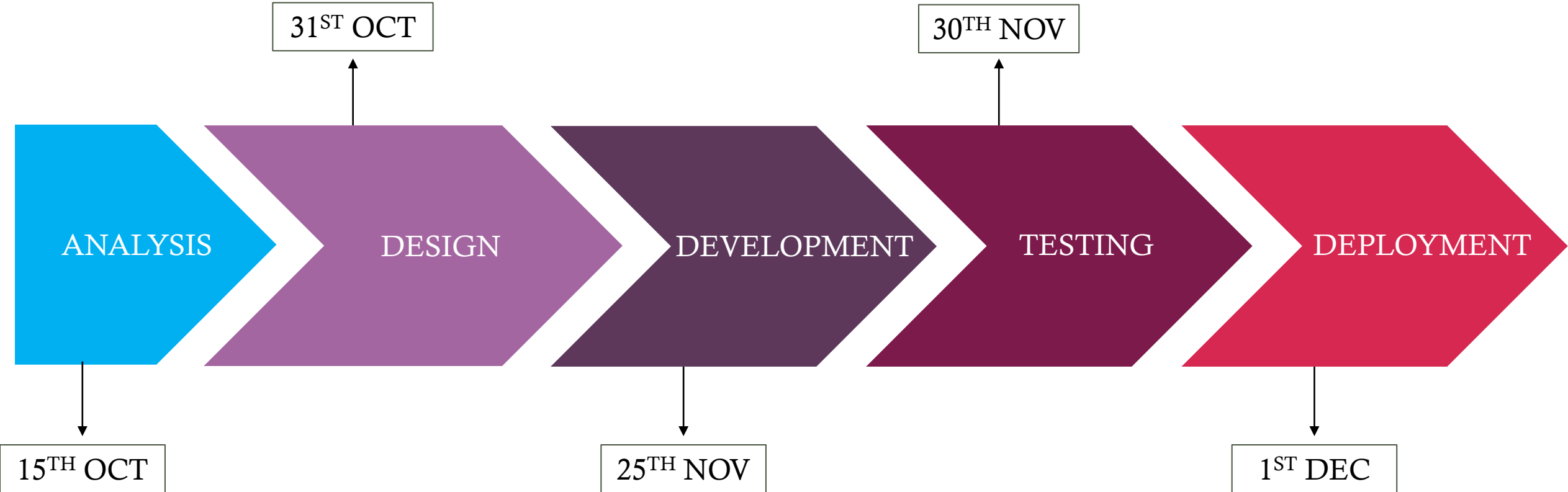


# SIMILARITIES

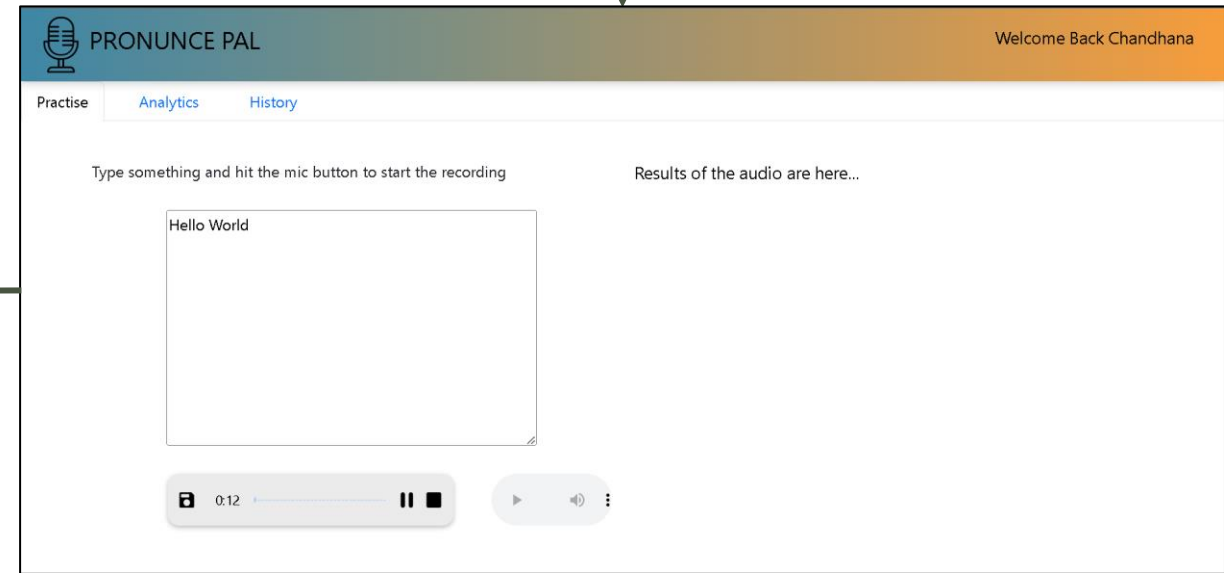
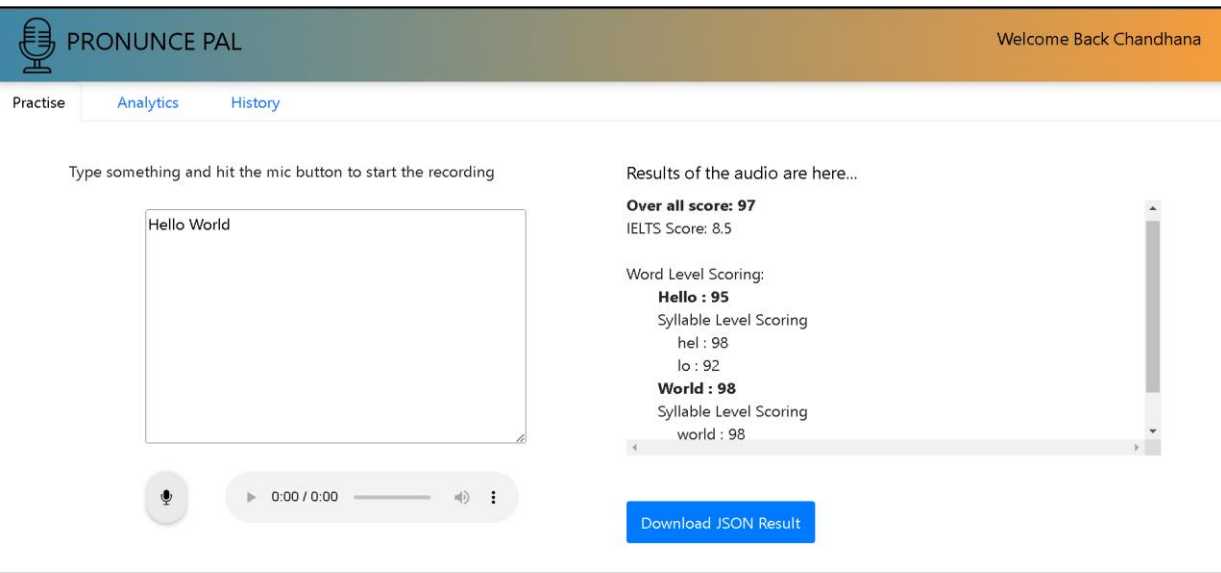
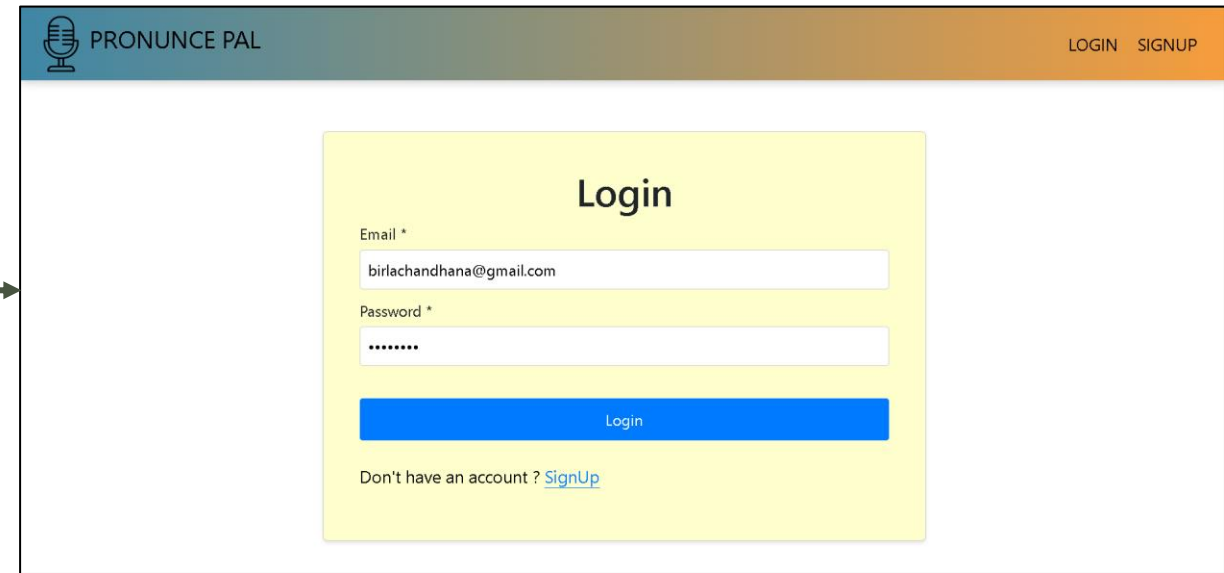
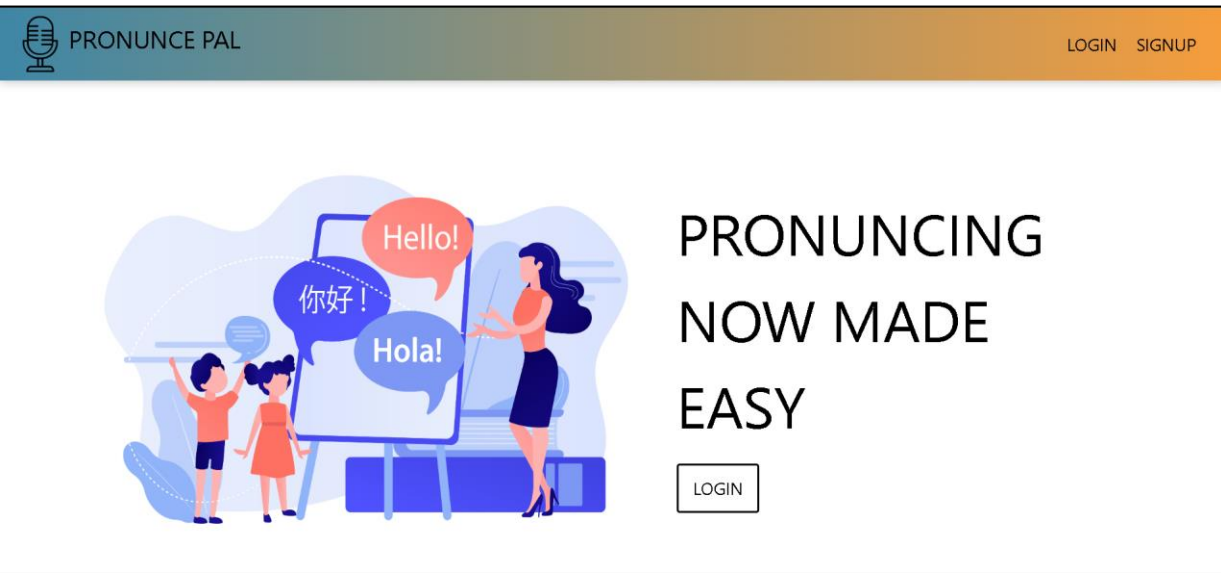
- Pronounce Pal is similar to few other tools like Speech Super, Speech Ace.
- Providing Multi Lingual support and Synonym level Score is common in Pronounce Pal and Other tools.
- User Analytics is being added as an Extra Feature in Pronounce Pal



# PROJECT STATUS



# INITIAL PROTOTYPE



# ANALYTICS PAGE



# HISTORY PAGE



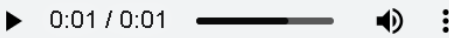
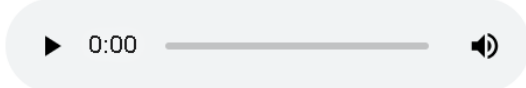
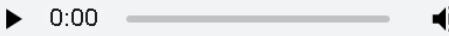
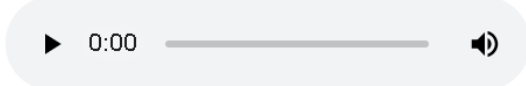
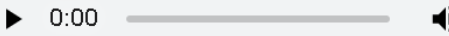
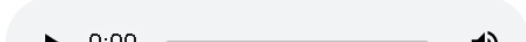
PRONUNCE PAL

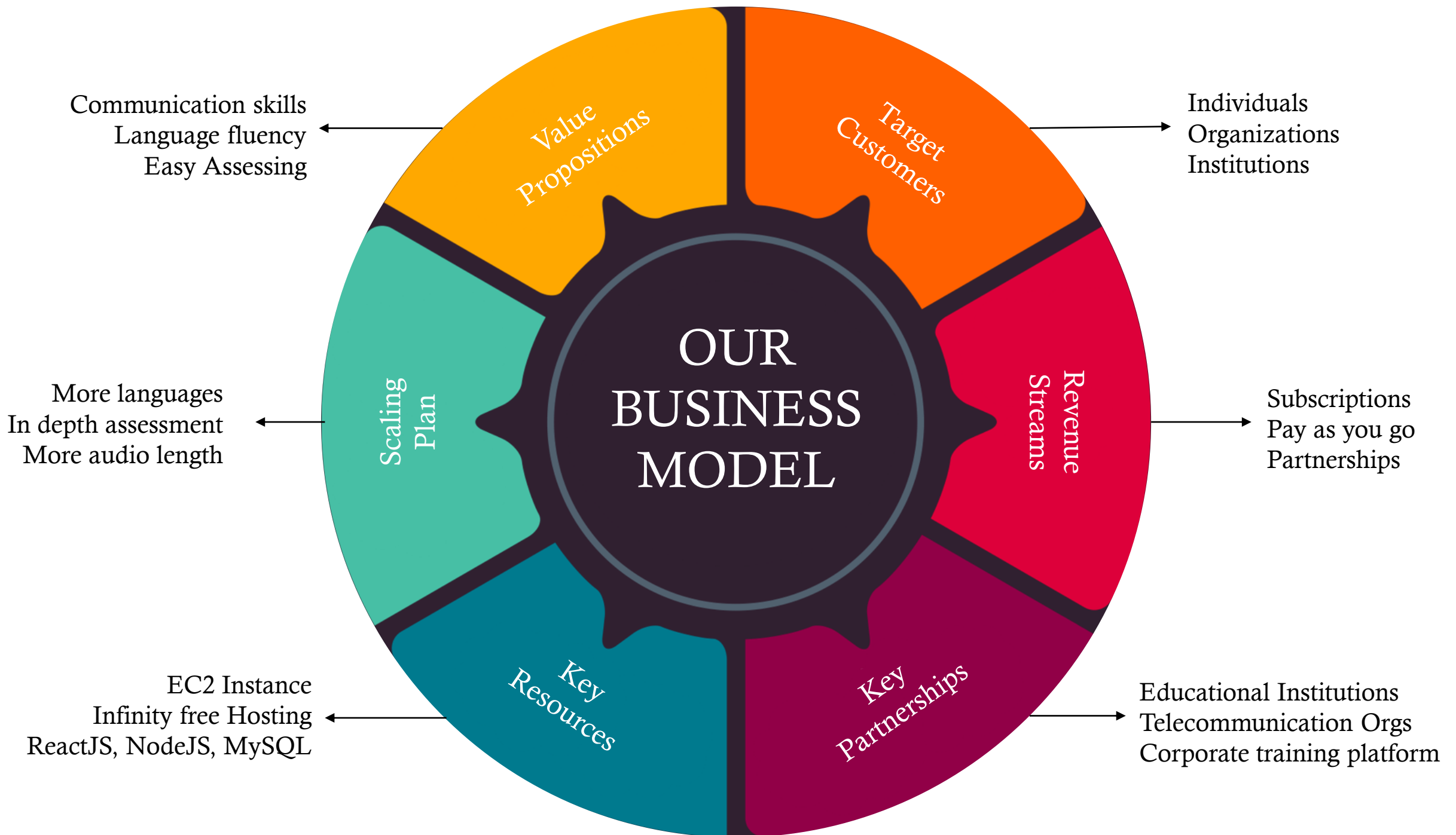
Welcome Back Chandhana

[Practise](#)

[Analytics](#)

[History](#)

SNo	Reference Text	Recorded Audio	Overall Score	Date
1	hello		68	2023-12-02T00:00:00.000Z
2	Hello		0	2023-12-02T00:00:00.000Z
3	Afternoon		95	2023-12-02T00:00:00.000Z
4	Good Morning		88	2023-12-02T00:00:00.000Z
5	Hello		98	2023-12-02T00:00:00.000Z
6	Hello		97	2023-12-02T00:00:00.000Z



# TEAM CONTRIBUTIONS

Lakshma Reddy Chada : Design Research, Frontend, Backend, Deployment

Chandhana Birla : API Research, Frontend, Backend, Deployment, Documentation

Gayatri Vunnam : Frontend, Backend, Database, Documentation

Sirisha Mittapelly: Frontend, Backend, Database, Documentation

# REFERENCES

## Images

<https://www.freepik.com/vectors/illustrations>

## Icons

<https://www.flaticon.com/>

## API

<https://www.speechace.com/>

## Similar API

<https://www.speechsuper.com/>

## Graphs

<https://recharts.org/en-US/examples>

<https://www.react-google-charts.com/examples/column-chart>

## ReactJS Components

<https://react-bootstrap.netlify.app/docs/components/tabs/>  
<https://upmostly.com/tutorials/setinterval-in-react-components-using-hooks>

## Downloadable Buttons

<https://thelearning.dev/how-to-download-files-on-button-click-reactjs>



ANY QUESTIONS?



