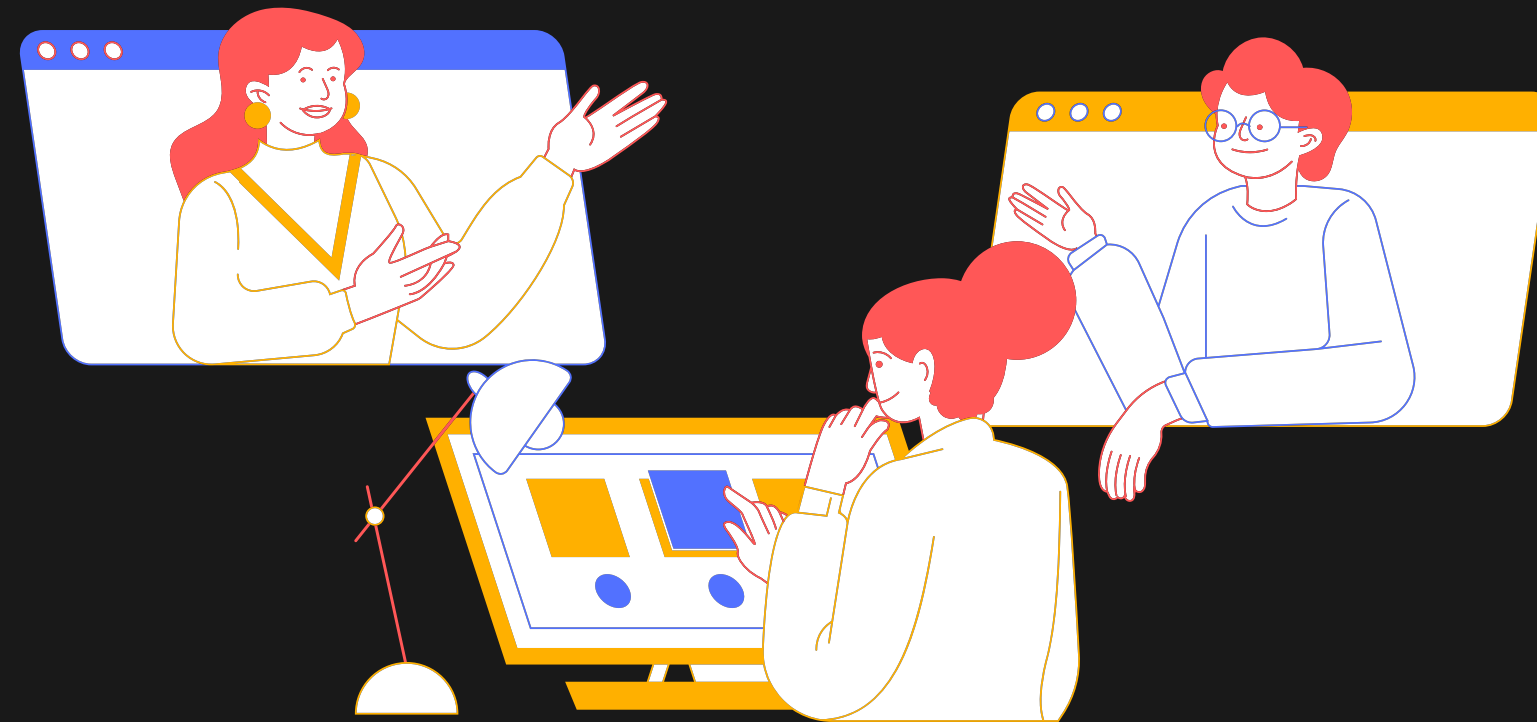


**Team:**  
**Code Forger**

**THEME: EDUTECH**

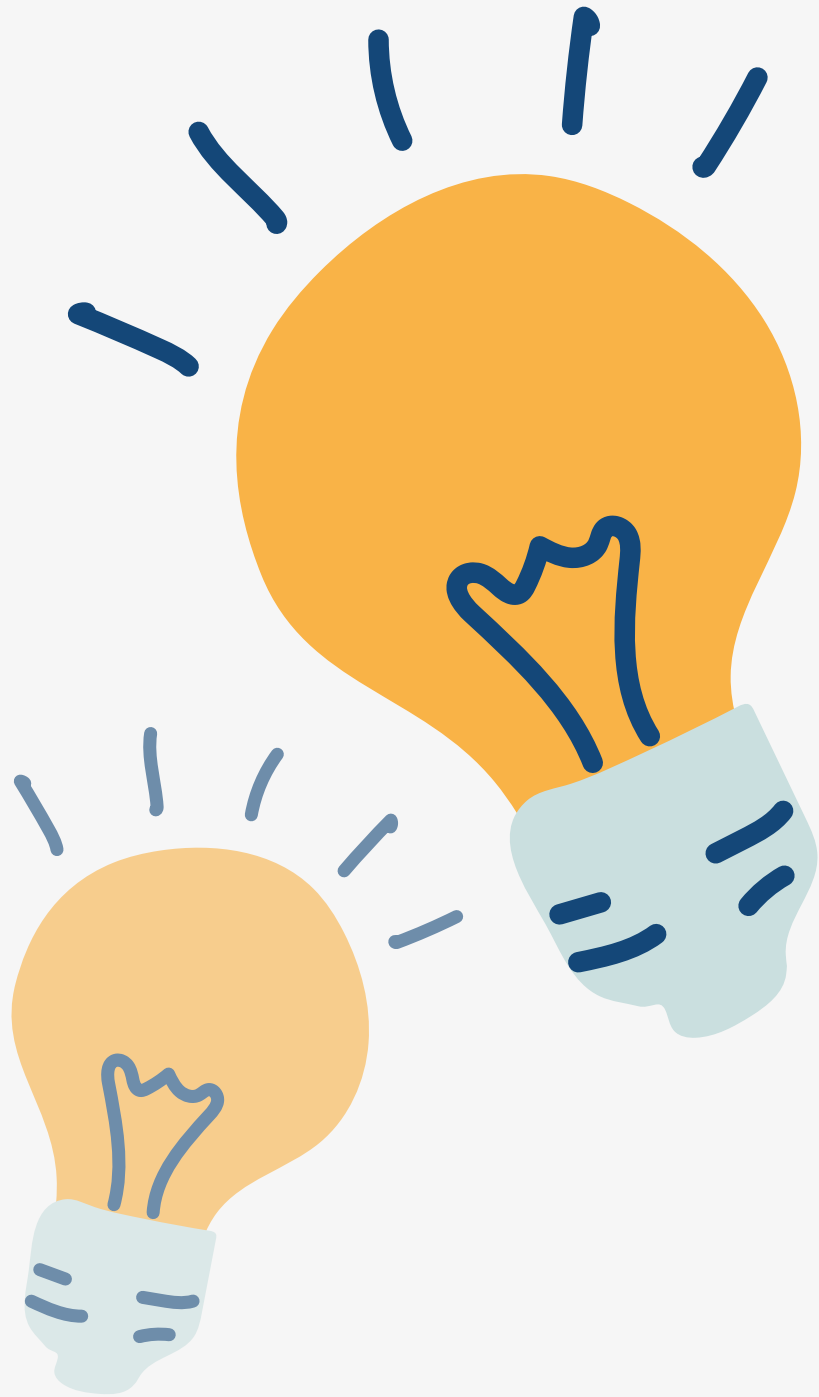


# PROBLEM STATEMENT



- The shift towards online classes and e-learning has led to a negative impact on student performance due to the lack of in-person interaction and difficulty in understanding and retaining information.
- The need for an effective solution to address the challenges of virtual learning and provide a more engaging and effective learning experience for students has become increasingly important.

# SOLUTION



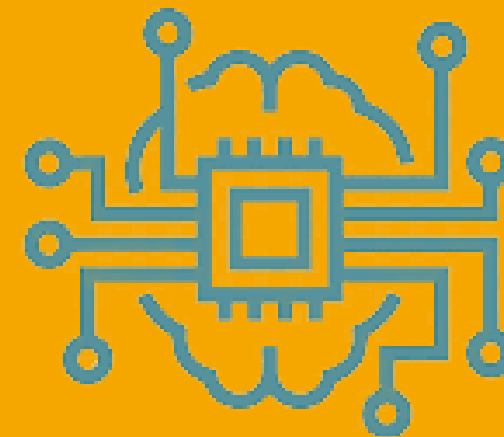
- With the rise of online classes, students need text-based materials for better understanding. The problem is the lack of an accurate solution for converting voice-based recordings to PDF/Word documents.
- Thus, we came up with the idea to develop a system that accurately converts voice-based recordings to PDF/Word documents, which can be easily accessed by students. The conversion accuracy must be verified for reliability, error-free text-based materials, and also taking screenshots that will automatically get embedded in the PDF.
- Provide students with a convenient and efficient way to access and review their online classes, ultimately improving their academic performance.

# KEY FEATURES

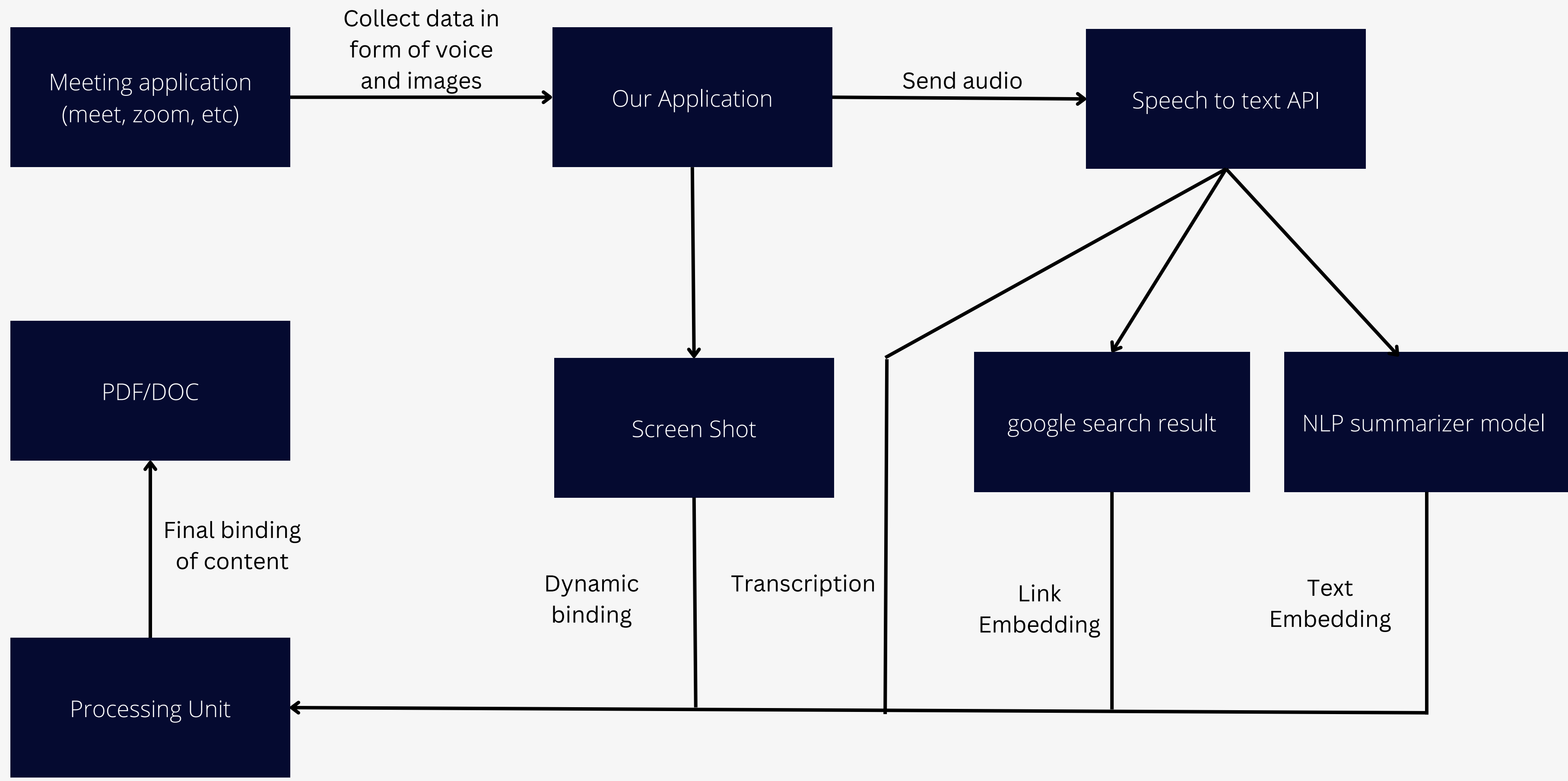
- **Screen shot feature:** The solution allows users to take screenshots and embed them directly into the PDF/DOC file, making it easier to capture and save important information.
- **Customizable format:** The user can choose the format they want to save their content in, allowing for greater flexibility in how the material is accessed and used.
- **PDF/DOC of the entire online class:** The solution creates a PDF/DOC of the entire online class, with a summary at the end for easy review and reference.
- **Study material suggestions and important links:** The solution provides suggestions for study materials and important links related to the course, helping users to further enhance their learning experience.
- **Highlighting of important points:** The solution automatically highlights important points in the text, making it easier for users to identify and focus on key information.
- **Accessible to people with hearing aids:** The solution provides additional benefits for people with hearing aids, who may find it difficult to fully understand and engage with voice-based recordings.

# Tech Stack

- Python
- Speech to text api
- Flask
- NLP/DL
- Tkinker



# Architechture



# Future Scope

The feature of converting voice-based recordings to text-based materials has many potential applications beyond online classes and education. Here are a few potential use cases in different fields:

**Corporate Training:** Many companies provide training to their employees through videos or audio recordings. Converting these recordings to text-based materials can provide employees with a more convenient and accessible way to review training material and improve their job performance.

**Legal Proceedings:** Voice recordings are often used in legal proceedings such as court cases or depositions. Converting these recordings to text-based documents can provide an accurate and easy-to-reference record of what was said during the proceeding.

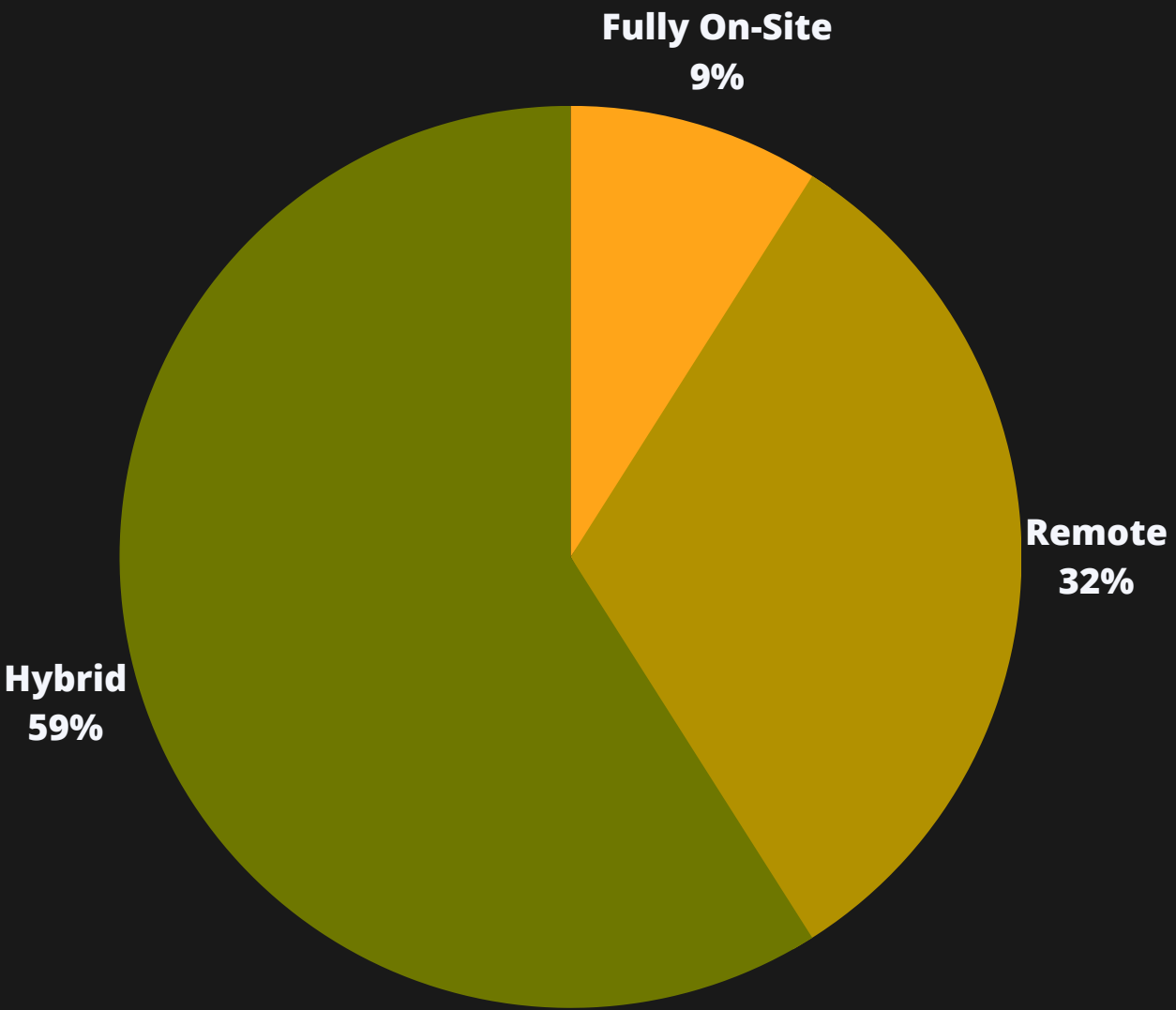
**Podcasts and Webinars:** Podcasts and webinars have become increasingly popular as a way to share information and engage with an audience. Converting these recordings to text-based materials can make the content more accessible to people who prefer to read rather than listen.

**Language Learning:** Learning a new language often involves listening to and practicing speaking. Converting audio recordings of language lessons to text-based materials can help learners better understand and retain the material.

Overall, the technology behind converting voice recordings to text-based materials has many potential applications and can provide value across multiple industries.

# Size of Market/Opportunity

Forecast Period	2021 to 2027
Forecast Period 2022 to 2029 CAGR	8-15%
Value Projection	\$ 1 Million in first year
Base Year	2021
Market Size in 2021	USD 144 billion in 2019 USD 374.3 billion by 2026 Growing at a CAGR of 14.6% from 2020 to 2026.
Market Growth Drivers	Increasing demand for online education and need for effective communication
	Growing adoption of digital solutions for education and training.



# Future Of Online Education



## SCALABLE

The proposed solution is highly scalable, as it can be easily integrated into existing online learning platforms, and can be used by students and teachers across multiple domains.

## RELEVANCE

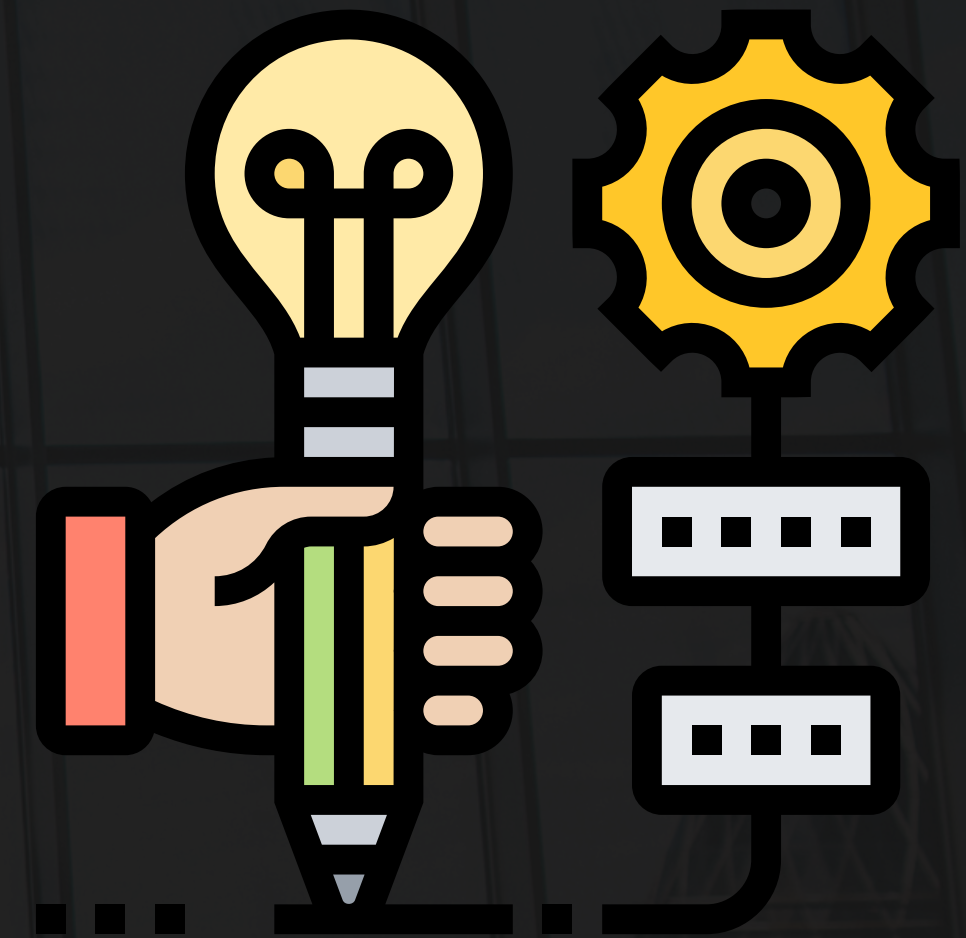
The proposed solution is highly relevant in today's tech-savvy world, where online learning is becoming increasingly popular, and students require text-based materials for better understanding.

## FEASIBILITY

The proposed solution is feasible as it utilizes existing technology and tools such as speech recognition software and text-to-speech conversion, which are widely available and constantly improving.

## IMPACT

The proposed solution improves academic performance by providing an accurate and efficient way to convert online class recordings into text-based materials.



Thank you!

