Unlocking the Power of Audio NLP for Student Assessment

TEAM MEMBERS

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Agenda

Enabling Teachers to Take Their
Student Assessment to the Next Level

What is Audio-NLP?

- **AudioNLP is a powerful tool that enables teachers to quickly and accurately assess student performance.**
- **The model we are making helps in understanding the input given through the student and assesses him based on a set of pre-added questions and answers.**
- **This model reduces the workload on teachers by assisting them in assessing the students instead of going through each one individually.**
- **It is really efficient as it is automated.**

How can It be used for Student Assessment?

Collect audio recordings from students

Process audio recordings through AudioNLP

Evaluate student performance based on NLP results

'Whisper'

True/false
MCQs

Objectives

Target/Objective # 1

Choosing the ASR model for the
project by shortlisting.

Target/Objective # 2

Give a few sample questions to the
model to check its working.

Target/Objective # 3

Making the User Interface

Making the User Interface which is the frontend.
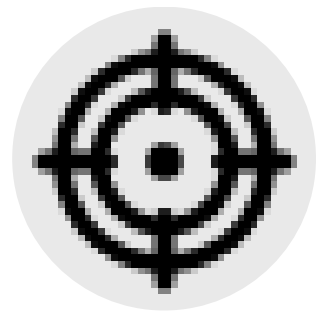
Target/Objective # 4

To be done yet

Database management

Benefits of Using Audio NLP for Student Assessment

Increase in Accuracy and Efficiency

Audio NLP reduces the burden of manual assessment, allowing teachers to save time and focus on other tasks.

Audio NLP is an accurate and reliable way of assessing students, making it easier to track progress and identify areas of improvement.

AudioNLP is easy to use, requiring minimal training for teachers to get started.

Easy to Use

To illustrate how user-friendly AudioNLP is

Natural Language Processing

AudioNLP uses natural language processing to quickly assess student performance
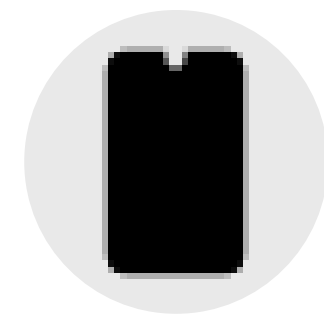
Identify Pattern

Audio NLP can identify patterns and trends in student performance

Generate Reports

AudioNLP can generate reports to provide teachers with the necessary tools and resources to assess student performance

Mobile Friendly

AudioNLP is mobile friendly and intuitive, allowing teachers to easily access and assess student performance

Saves Time!!

How does Audio-NLP
save time?

Audio NLP can be used to automatically grade spoken assessments, such as oral exams, presentations, and debates. This saves teachers a significant amount of time, as they don't have to manually listen to each recording and evaluate the student's performance. Instead, the audio NLP technology can automatically assess factors such as pronunciation, grammar, and fluency. It can also provide students with immediate feedback on their spoken performance, which can save time for both students and teachers. Students can receive feedback on their pronunciation, grammar, and other language skills in real-time, allowing them to quickly correct mistakes and improve their performance. It provides an objective evaluation of a student's spoken performance, which can reduce bias and inconsistency in assessment. This ensures that all students are evaluated based on the same criteria and that the assessment process is fair and accurate.

Benefits of Using Audio NLP for Student Assessment

To summarise the benefits of using AudioNLP for student assessment

Increase in Accuracy and Efficiency

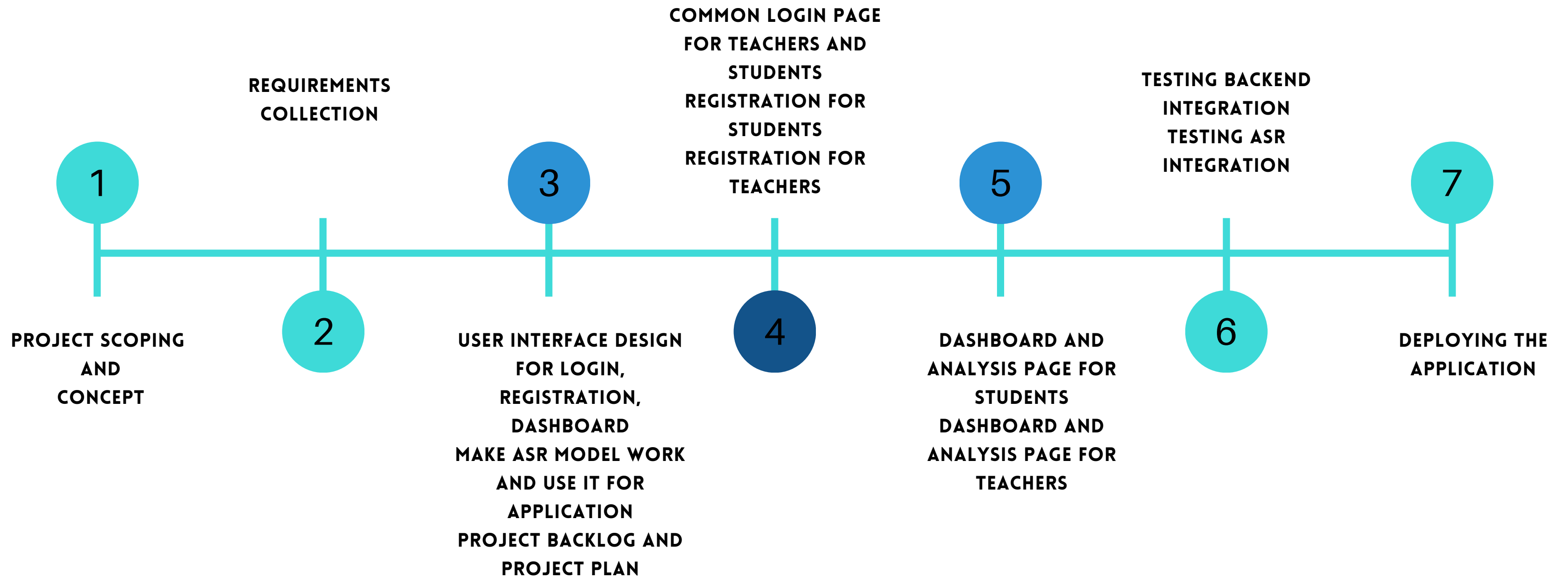AUDIO NLP ENABLES TEACHERS TO ASSESS STUDENTS QUICKLY AND ACCURATELY

Easy To Use

AUDIO NLP REQUIRES NO SPECIAL TRAINING AND IS EASY TO USE

Saves Time

AUDIO NLP CAN QUICKLY PROCESS LARGE AMOUNTS OF DATA, REDUCING THE TIME REQUIRED FOR MANUAL ASSESSMENT

MILESTONES

REQUIREMENTS COLLECTION

**COMMON LOGIN PAGE FOR TEACHERS AND STUDENTS
REGISTRATION FOR STUDENTS
REGISTRATION FOR TEACHERS**

**TESTING BACKEND INTEGRATION
TESTING ASR INTEGRATION**

1

3

5

7

2

4

6

PROJECT SCOPING AND CONCEPT

**USER INTERFACE DESIGN FOR LOGIN, REGISTRATION, DASHBOARD
MAKE ASR MODEL WORK AND USE IT FOR APPLICATION
PROJECT BACKLOG AND PROJECT PLAN**

**DASHBOARD AND ANALYSIS PAGE FOR STUDENTS
DASHBOARD AND ANALYSIS PAGE FOR TEACHERS**

DEPLOYING THE APPLICATION

THANK
YOU!