



# THAT Hearing Assistance & Transcription (THAT)

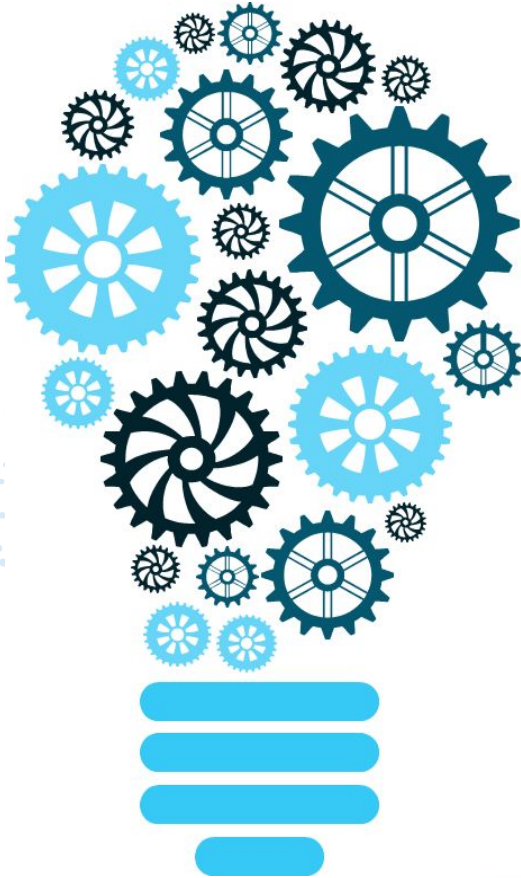
## Team Invictus

|                            |             |
|----------------------------|-------------|
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# Current Issues in Providing Inclusive Education

- Hearing disability causes delays in the development of speech and language.
- This leads to learning problems, often resulting in poor academic performance.
- There are over 2M children with hearing disability in India. Out of them, 0.8M are either dropouts or don't have access to education.

# Project Idea



A **mobile application** for people with hearing disability to improve learning experience.



Provides Live Transcript (live subtitles) during classes/lectures.

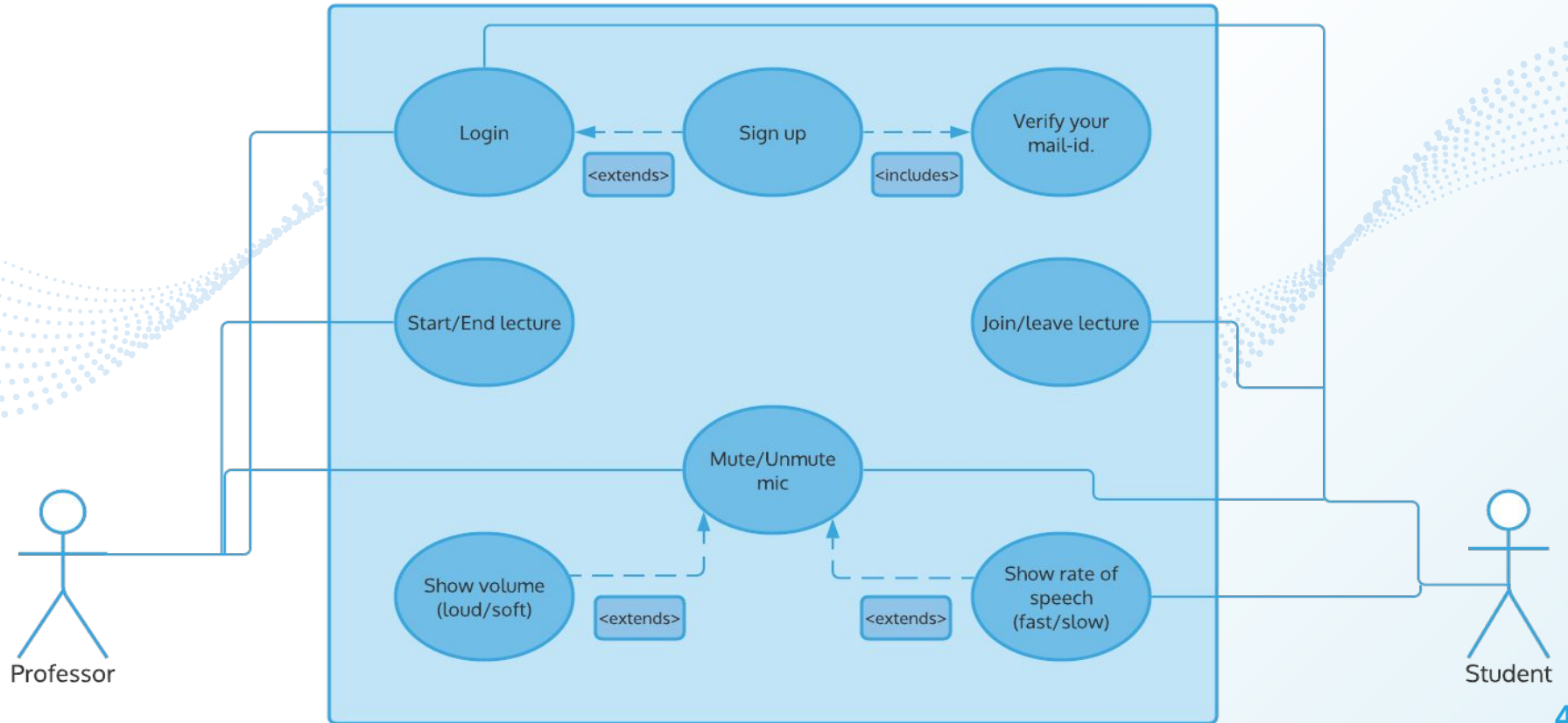


Helps users to understand whether they are loud/soft, fast/slow while speaking.

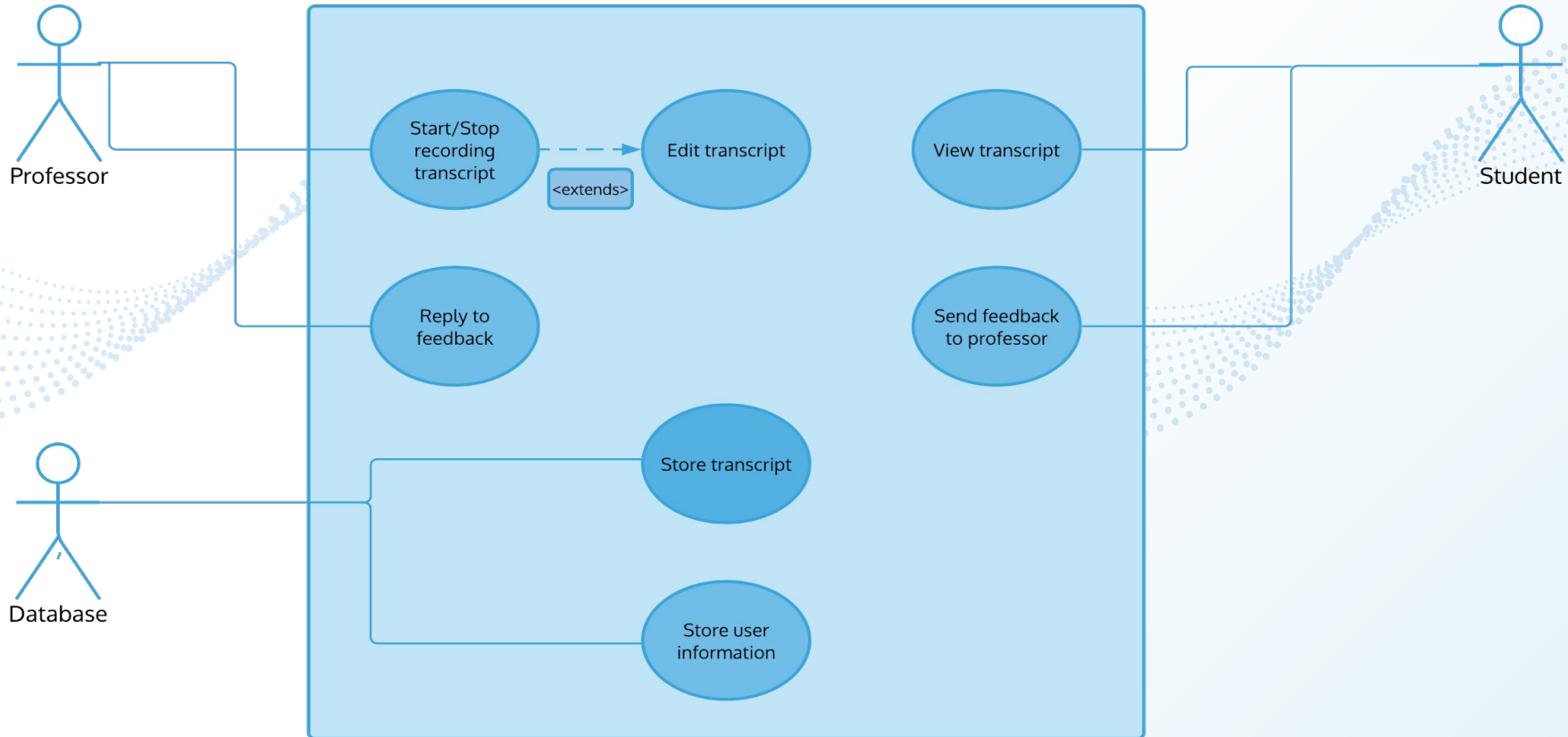


Allows students to submit feedback and the professor to reply to feedbacks.

# UML Use-Case Diagram



# UML Use-Case Diagram (Contd.)



# Feature 1 : Live Transcript



Professor opens the app and keeps the phone in his pocket or desk

The audio received by the microphone processed (speech recognition)

Audio transcribed into text realtime (live subtitles)

Subtitles relayed realtime to student's phone

Transcript of the entire lecture is saved

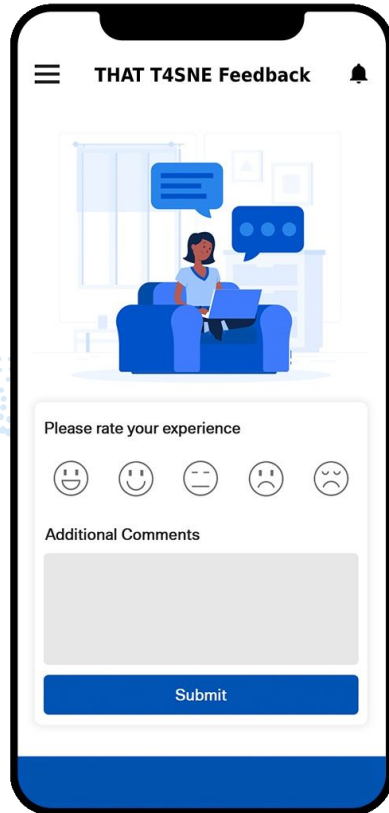
## Feature 2 : Speech Assistance

- ✓ Class interaction is necessary for effective learning.
- ✓ Study shows that people with hearing impairment can learn how to speak with practice.
- ✓ While speaking, the app will show the users whether their speech is fast/perfect/slow or loud/perfect/soft.
- ✓ This feature helps them to assess themselves and improve v time.
- ✓ This will simultaneously improve their vocal skills as well as help them in effective communicating during the class.





# Feature 3 : Feedback Feature



An indispensable aspect for any hearing impaired student is communication.



The application allows the student to submit their feedbacks about the lecture.



The feedbacks can then be reviewed and the professor can respond to them



This will not only ensure a smooth teaching process, but also put in place a proper communication channel between the two.



# Technologies Used



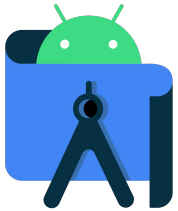
NLP



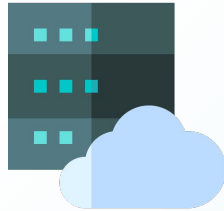
Flutter



Speech Recognition



Android Studio



Database  
Management





Thank You

