



Voice-based online examination system for visually impaired students

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Declaration

I declare that to the best of my knowledge, this submission is my own work and does not contain any pre-published or written material by any other person or thing, which has been widely accepted for the granting of any other degree to a university or other higher education institution.

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Abstract

The education system measures the knowledge level of the student using an exam system. A physical exam is the most famous method. Nowadays e-learning is most famous all around the world with internet facilities. Then the typical examination system was converted to an online examination system. It was not a good transformation for the students who are visually impaired. Sometimes they need others' help to read the questions and type the answers. They need some support from technology to face those types of exams. If the examination system can read the questions for them, if the system can listen and get the answers as voice commands in the system, then it becomes a great motivation for those students. In this circumstance, a voice-based examination system is the most suitable solution. The system reads the question for the student. According to the request, it is ready to read the questions again. The student can feed answers to the system as voice commands. The system can pronounce the words using text-to-voice technology. Also, it should detect the correct word from the student pronunciation using voice-to-text technology. Finally provide a flexible and suitable solution in the situation for the online examination system and it converts the typical system to the voice-based examination system.

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