

# Blind People Voice Based Online Exam

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**Abstract:** *The online examinations are in common for all competitive exams in order to reduce the workload of the faculties as well as students. In conducting online exams, new kind of technologies are using for better functioning. In these areas new implementations are coming. Till date Visually Challenged people cannot attend the online exams due to various factors. To make them to participate in such exams like ordinary people an advanced system is proposed. Here the questions which are available as softcopy are being dictated to the students with the help of voice board, the visually challenged peoples can hear it by using headphones. The applicants can answer it by pressing by pressing the keys in the keyboard. [7],[ 9],[11]*

**Keywords :** blindness,examination,circuit

## I. INTRODUCTION

The implementation of internet is becoming more in everywhere and in each sector it has more functioning to do many activities for reducing the working of manpower. we offers a medium that has the potential to be more responsive to students. The students are using the internet fir so many things to improve their knowledge regarding every topic. Now days it became a basic need for everyone to know everything. By knowing all these things, the education system also changed every activity towards students for making their education in better manner. The providing of knowledge in different ways became more common in everywhere. And the learning through the trending technologies will make students to understand in better manner. [1],[ 3],[5]

As technology growing rapidly, it is necessary to make the things in advanced manner at every aspect of education. In this manner, in the future blind people can also do the online exam like a normal human, if our project is delivered in real time. In this we are using a technology of text to speech area. Although considerable progress has been made in this area, but still there is little effort being put towards improving synthetic voices trained with lower quality of speech. [2 ],[ 4],[6]

In this paper proposing speech enhancement as the process of removing the additive noise. In the real scenario, however speech recordings are contaminated with background noise and reverberation at the same time. By eliminating all these flaws, we are proposing the system for better usage in education system. For making online to available for blind people, we are proposing this paper. The blind people can identify the anything by hearing about that. So, we are

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## II. EXISTING SYSTEM

In Voice recording frameworks the substance had recorded as of now in certain configuration by anybody. The visually impaired individuals ought to should hear the recorded substance in that recording framework by utilizing earphones dependent on along these lines they can without much of a stretch know the substance and learn in a favored manner and furthermore they can connect with that framework by giving their voice as info. This sort of hearing framework will be recorded before directing anything about specific subjects. These basic techniques have been utilized for the visually impaired individuals to uncover their ability in different stages and to get rival ordinary individuals through the assistance of numerous gadgets. The voice condition will be varying at various examples.

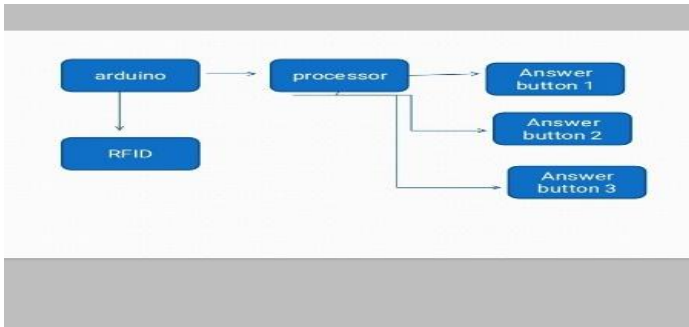
## III. DISADVANTAGES

The real drawback is that they need to give a voice contribution to an unmistakable way that implies anybody needs to record those inquiries by their voice, there might be commotion concealment and furthermore for various dialects other than English they are not feeling great. In the event that the commotion isn't clear, at that point daze individuals can't comprehend that one. Around then, it will be troublesome for them to go to any test. If any mistake happened, there should be one more guy to monitor the exam and he need to give some clarification simultaneously, he has to solve their doubts. The registration will also take so much time. It is not user friendly and not applicable for all exams. For each exam, each one has to record in different languages. If any mistake happened, it will spoil whole exam. [8],[ 10],[12]

## IV. PROPOSED SYSTEM

By overcoming all the disadvantages of existing system, a new system is proposed for better use. For logging in RFID is using. In this system, a new keypad having four different buttons will be given to the candidate. The textual content of the questions will be converted to voice signals and will be hear by the candidate through head phone. The voice clarity will be very good in this system. Candidate must choose the response button in the keypad and the result will be stored in the server. If the candidate had not listened, then the candidate can repeat the question again to listen. After they chosen the answer, next question will be displayed. After completing the exam, the results will be shown directly. [14],[ 16],[ 18]

## V. BLOCK DIAGRAM



## VI. HARDWARE REQUIRED

**ARDUINO:** The Arduino UNO is an open source microcontroller board dependent on the microchip ATmega328P microcontroller and created by Arduino. The board is furnished with sets of computerized and simple info/yield sticks that might be interfaced to different development sheets and different circuits.

**RFID Reader:** RFID Reader is a gadget that utilizes radio recurrence waves to remotely exchange information among itself and a RFID so as to recognize, sort and track resources.

**RFID Tag:** The RFID labels contain electrically put away data. Agreeable labels collect vitality from a close-by RFID peruser's investigating radio waves

### MODULE DESCRIPTION

**Speech synthesis:** Speech synthesis is a technology used to text to speech conversion.

**Speech recognition:** Speech recognition is a technology used to speech to text conversion.

### WORKING PROCESS

In this process RFID reader is used for lodging in it is connected to Arduino. After that it is linked with processor. After that questions will be given as input image. This input image is converted into text and then it is converted into voice. The candidate will listen the voice using headphone. When the question has been asked the candidate has to answer the question with the help of buttons. The candidate will choose the require button and it is given to the processor. If the candidate had not properly understood the question the candidate can repeat the question with the help of the repeat button and another button for submit. At last the whole score of the candidate is declared.

## VII. CONCLUSION

This is helpful one for each visually impaired individual to appreciate their ability effectively through online test like different people. In this venture we will go convey a whole application for physically tested individuals which can give intelligent impedance. Examinee can easily give test by giving simple voice directions. Physically tested individuals can undoubtedly give test like a typical man absent much trouble. It is easy to perform the exam without any interruptions. [13], [15], [17]

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