

Smart Online Examination System for Visually Impaired Persons

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Abstract: *This paper explains the Smart Glove, a smart online exam system for the blind that uses Arduino and Bluetooth. Our goal is to create an aid gadget for blind and visually impaired persons so that they can appear for exams and complete them effortlessly and comfortably, allowing them to become more independent. This concept includes a smart glove with a button on each finger that allows users to select their selections. On the one hand, we created an app that, after logging in and connecting through Bluetooth with the server, allows blind people to hear questions with options that they can choose from at their leisure. We connected four Bluetooth buttons to one Arduino Nano and developed a software that reads questions and options on the opposite side of the gloves. The procedure entails connecting via Bluetooth and handing over headphones to a blind individual so that they can hear questions and options and solve the exam accordingly. The Bluetooth module will be utilised for wireless communication and application-to-hardware interfacing in this fashion. Additional features of this proposed paper include a Bluetooth transmitter and receiver, which are used to recognise the user's response using smart glove. The major goal of this methodology is to create a smart glove that will be extremely useful for persons who are visually impaired and frequently require assistance.*

Keywords: Micro-controller Arduino, Bluetooth module, Sensors.

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