IOT Door Bell using Image Processing

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Abstract: *The objective of this project is to facilitate the user with a simple and customised technology to effectively manage visitors flowing to his/her premises. It is a real time smart doorbell notification system for home security. The system combines the functions of a smart and a house network system. It enables the users to monitor visitors in real time via the IOT based doorbell installed near the entrance door to a house. The doorbell can be controlled in a smart way to intimate the user with a picture and a text message of the visitor at the doorstep. When a visitor rings the doorbell, an SMS will be sent to the registered mobile number of the house member and the response in the form of an SMS will be displayed on an LCD screen placed beside the door so that the visitor can read the SMS and act accordingly. The visitor can also leave a voice message that will be sent to the house member. Fingerprint recognition can be added to provide additional security and to replace the traditional lock and key. The doorbell will be installed with an Arduino chip to transmit and receive messages. This system is also intended to serve old age people and to identify unauthorised intruders. In the age of technology, it is necessary to update our security systems and to make living easier.*

Keywords: IOT, Arduino, Smart doorbell

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