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Abstract



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Abstract: Nowadays, practically all colleges and coaching institutions across the globe provide housing options. There is a huge demand for hostels and PGs since students come from all across the nation to pursue higher education. Over the years, the number of migrant students has steadily grown, and 40-45% of them are female. As a consequence, there is a greater need for hostels, and the hostel residents are the operators' first priority. There is only one answer to all of these problems since security and other people are not allowed inside the hostel and it is difficult for one person or the warden to keep track of every student, an alternative name for electronics or its radio frequency identification (RFID). In order to uniquely identify an item or person in the electromagnetic spectrum at radio frequencies, a technology known as RFID (Radio Frequency Identification) uses electromagnetic or electrostatic coupling (RF). Bar codes are being replaced with RFID in the industrial sector. The advantage of RFID is that line-of-sight scanning and physical contact are not necessary. An RFID tag, an RFID reader module, and a serial connection UART are all used by the system to interact. This RFID module receives the 12-bit ID of the tag once it is within range. The unique ID is sent to the microcontroller through the UART protocol for further processing. As a consequence, a novel concept in hostel security was established using RFID technology. In this article, the authors present an RFID based hostel security system that uses actual hardware.

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 **Contents**

I. Introduction

The security of their kids is a major worry for most parents. In this paper, we propose a solution for parents to monitor their kids' activities. The proposed solution is based on the use of RFID technology. The proposed solution is based on the use of RFID technology. The proposed solution is based on the use of RFID technology.

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