

Application for Bed Vacancy Detection and Provide Real Time Data of ICU Patient to Their Relatives

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Abstract: *An efficient bed availability tracking system is necessary. In India, the availability of beds in hospitals is a big problem. Many times, people face issues related to the availability of many things. Whether it pertains to sleeping arrangements, seating options, or any other type of physical location, this has been perceived as a challenge by our team. This project aims to develop a system using IoT and the Web. That would be able to detect the availability of beds. It will not only be beneficial for the person who is looking for a bed but also for the hospital administration to manage and distribute it in a well mannered way. The condition of bed availability in India is very poor. People look for treatment for many days. This situation in rural areas has even worsened, where many people die due to a lack of proper treatment and ignorance by the hospital. If they can book a bed from their place in advance, then it will be best for people and hospitals. And this is also beneficial for hospitals, as they can extend the beds for emergencies. We completed this project with the help of a sensor (an IR sensor) to detect the presence of a person, Arduino as the heart of the system, and different kinds of IoT devices.*

Keywords: IoT devices