Recently, home automation systems have gained significant attention due to their fast and advanced technology, making daily living more convenient. Almost everything has been digitalized and automated, and this trend is expected to continue. The development of home automation systems has become easier and more popular due to the use of the Internet of Things (IoT). This paper describes various interconnection systems of actuators, sensors to enable multiple home automation implementations. The system is known as HAS (Home automation system). It operates by connecting the robust Application Programming Interface (API), which is the key to a universal communication method. The HAS system uses devices, often implemented as actuators or sensors that have an upwards communication network followed by HAS (API). Most of the devices of the HAS (home automation system) used Raspberry Pi boards and ESP8285 chips. A smartphone application has been developed that allows users to control a wide range of home appliances and sensors from their smartphones. The application is user-friendly, adaptable, and beneficial for consumers and disabled people. It has the potential to be further extended via the use of various devices. The main objectives of this work are to make our home automation system more secure and intelligent. HAS is a highly effective and efficient computational system that may be enhanced with a variety of devices and add-ons. © 2022 by the authors.

Author Keywords
application-programming interface; discipline; home automation systems; internet of things

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A Trustworthy SIoT Aware Mechanism as an Enabler for Citizen Services in Smart Cities

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