One Touch Appliance Control

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ABSTRACT:

There has been a significant development in the area of an individual's routine tasks and those can be automated. In the present times, we can find most of the people clinging to their mobile phones and smart devices throughout the day. Hence with the help of his companion-a mobile phone, some daily household tasks can be accomplished by personifying the use of the mobile phone. Analyzing the current smartphone market, most users are opting for Android based phones. It has become a second name for a mobile phone in layman terms. Home Automation System (HAS) has been designed for mobile phones having Android platform to automate a Bluetooth interface arduino which can be used in our daily life.

SYNOPSIS:

This system is designed to assist and provide support in order to fulfill the needs of elderly and disabled . Automation of the surrounding environment of allows human being to increase his work efficiency and comfort.
The extended view of the project could be used to control a number of home appliances like lights, fans ,bulbs etc.
This can be met using hardware components such as Arduino UNO microcontroller, Bluetooth module HC 05, basic Android application, software to control the appliance.
The arduino UNO is basically loaded with some of the set of codes that would control the appliance. As it is a completely sensor based system, the sensor detects the input given by the user and performs required tasks based on the input.
It is observed that using smart switching to control any appliance could save power . Depending on the situation with the help of a single circuit many appliances could be controlled.

HARDWARE REQUIREMENTS:

- Arduino UNO.
- HC-05 Bluetooth Module.
- Bulb/Lamp.
- Solderless Breadboard.
- Male/Female jumper wires.
- Power supply.

SOFTWARE REQUIREMENTS:

- Android Application for user interface with the appliance.
- Codes for running Arduino UNO