

# Design and Development of Voice Based Hot and Cold Water Dispenser

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**Abstract:** *Technology is a never-ending process. To be able to design a product using the current technology that will be beneficial to the lives of others is a huge contribution to the community. Voice Based water dispenser Automation System using controller is the project which will be very useful for old age people and disabled people, basically for one's who cannot perform basic activities efficiently. It is the idea which corresponds to the new area of automation and technology. This paper presents the design and implementation of a low cost but yet flexible and secure voice based hot and cold-water dispenser system. The communication between the cell phone and the controller board is wireless. Voice command sends from mobile to the microcontroller, to understand whether the water required by the person should be hot or cold. The microcontroller processes the information to the IR sensor to determine where the glass is placed below the pipe or not. The system uses IR sensors to detect the presence of water glass and then the IR sensor sends the signal to the microcontroller about the presence of the glass, accordingly the motor starts and the water flows through the pipes from the particular jar (hot/cold).*

**Keywords:** Bluetooth Module, Microcontroller, Hot and Cold-Water Dispenser, Solenoid Valve

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