

Home automation on your TV

Core idea behind this innovation:

- Seems counter-intuitive to people who've become accustomed to doing everything on their smart phone.
- Benefits is that you don't have to search for your phone when you're watching TV and want to turn the lights down.
- If someone comes to the front door, you can have a front door camera automatically alert you with a video of the visitor up on your TV.
- The setup/programming process may also be a little easier when it's on a large screen rather than the 3-inch screen of a phone.



Components Involved:

❖ Physical component:

- The Smart Hub is equipped with Zigbee, Bluetooth, and WIFI wireless capabilities.
- The MaxMyTV sensors communicate using the Zigbee protocol, which allows for the integration of a wide variety of different sensor devices in the future.
- Using Zigbee, you will be able to add your own sensors to your MaxMyTV fleet.

❖ Sensor component:

- Hardware prototypes built for the Smart Hub, Smart Power Outlet, and the sensors.
- The software has also been developed to include HDMI input processing, support for Android apps, the overlaying of social media and a camera feed on the TV.
- The batteries for the sensors as well as including security features are well optimized.

❖ Connectivity component:

- The connection is between the set up box to hub to the TV set. The hub is connected to other devices like the camera in front door , mobile apps via wifi.

Components:



Capabilities:

❖ Monitor:

- The sensors help monitor the actions happening at the front door while the user can still sit at one place while watching TV.
- Sensors help in monitoring the system is working or not.

❖ Control:

- The control is handled by the user either using the remote or the application in mobile.
- Also the hub has the control of the event that has to take place on the button click.

❖ Optimize:

- The performance is optimized by using sensors that are well programmed to perform multiple actions like turning on TV, turning on/off the lights, seeing who is at the front door etc.

❖ Automate:

- The hub acts as the automation device that manages the course of the events asked by the user.

Thank You :-)