Introduction To Innovative Projects (TG1)

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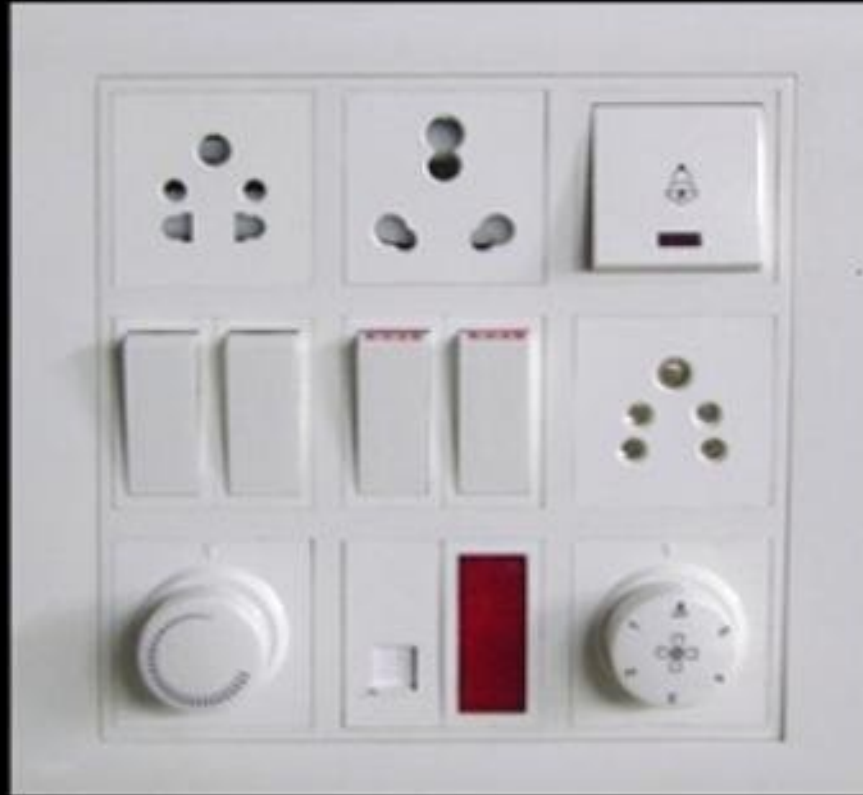
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The Project Chosen is

Simple Home Automation System Using Arduino

What is Automation?

► According to Technopedia, *"Automation is the creation of technology and its application in order to control and monitor the production and delivery of various goods and services. It performs tasks that were previously performed by humans. "*

► *By using home automation we can be able to control our home appliances using our phone or laptop which is in a way similar to a virtual portable switch.*

We Plan to replace this traditional switch board

What are the advantages?

- *Well in our project , we are going to try to enable people to control your house using something which will always be in our hands , our mobile phones. Everybody has access to mobile phones these days and hence it will prove to be a very valuable contribution to people who find it hard to walk around their house or people who have very large houses and want to switch off all the devices in the next floor without having to be physically present there.*

Advantages (Contd.)

▶ *It can also help avoid accidents like electrical shocks which can occur when the switch is not properly insulated or if the person using the switch has wet hands. Using our device , we can help avoid the contact necessary to switch on or switch off a switch.*

Requirements For The Project

Hardware:

▶ Bluetooth Module

▶ Relay Module

▶ Arduino Uno (Microcontroller)

▶ Jumper Wires

▶ Breadboard

Software:

▶ Arduino IDE

▶ Android App