

# Toggle Project Report

## Contents

Introduction

System objective

Market landscape

System Design

Novelty

Screenshots

Future Plans

Roles and Contributions



## Introduction

There was an idea to make the things automated through the use of internet of things. There are many things that work on this principle and people are used to it, like AC, TV, Music system.

But unfortunately people are still using traditional switchboard to control home appliance.

One of the major reason behind this is the cost and limited players in the market.

So we decided to bring the benefits of this system to the normal people.

## System Objective

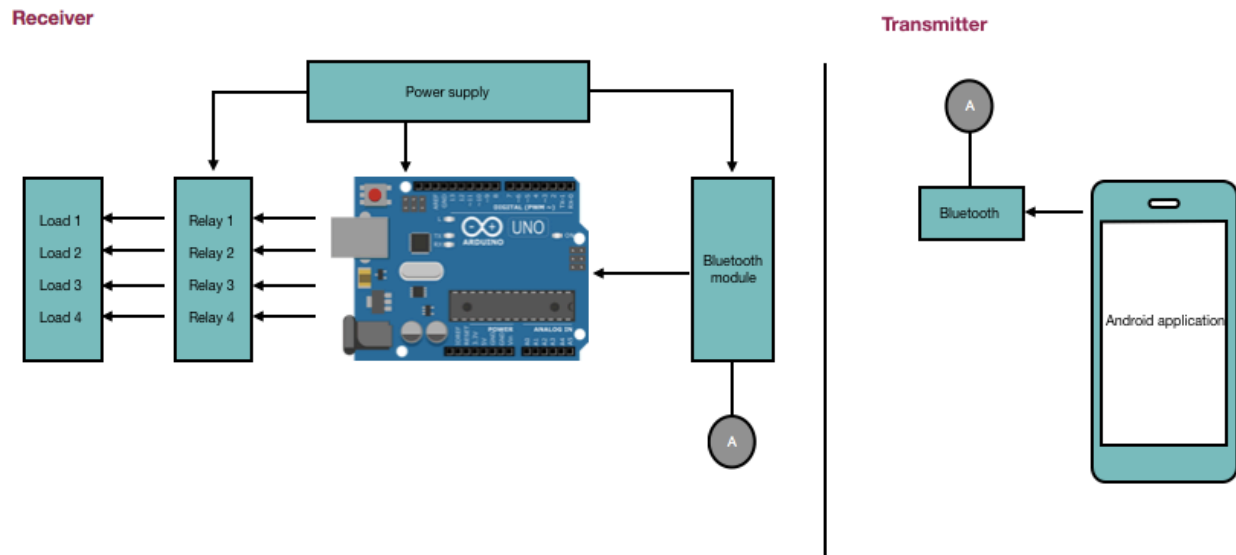
The objective was to create a system for houses related to internet of things. System primarily focuses on controlling the switches. It is an inexpensive approach to introduce such technology to the people.

## Market landscape

Anyone can use this system there are no specific market area for this.

Very few companies are there who provide home automation devices at very cheap price.

## System design



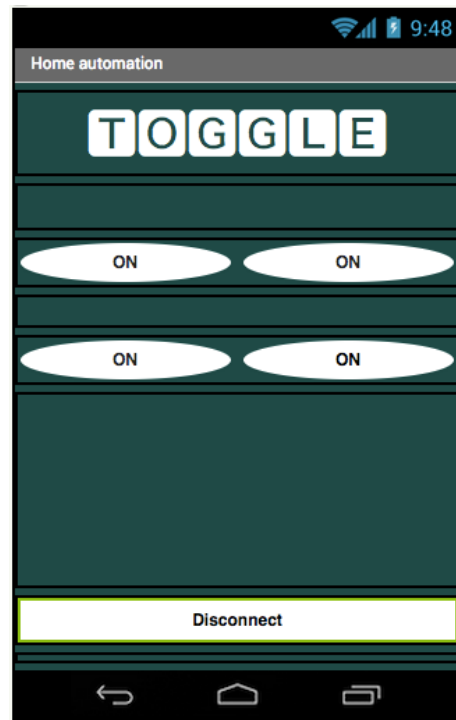
The system is basically consists of Arduino uno IC and relay module with a bluetooth module. Arduino IDE is used to programmed the circuit. The application is worked on android platform and completely designed in Google MIT app inventor.

It creates the connection between the app and the IC via bluetooth connectivity and transfer the specific command to turn on/off the switches accordingly.

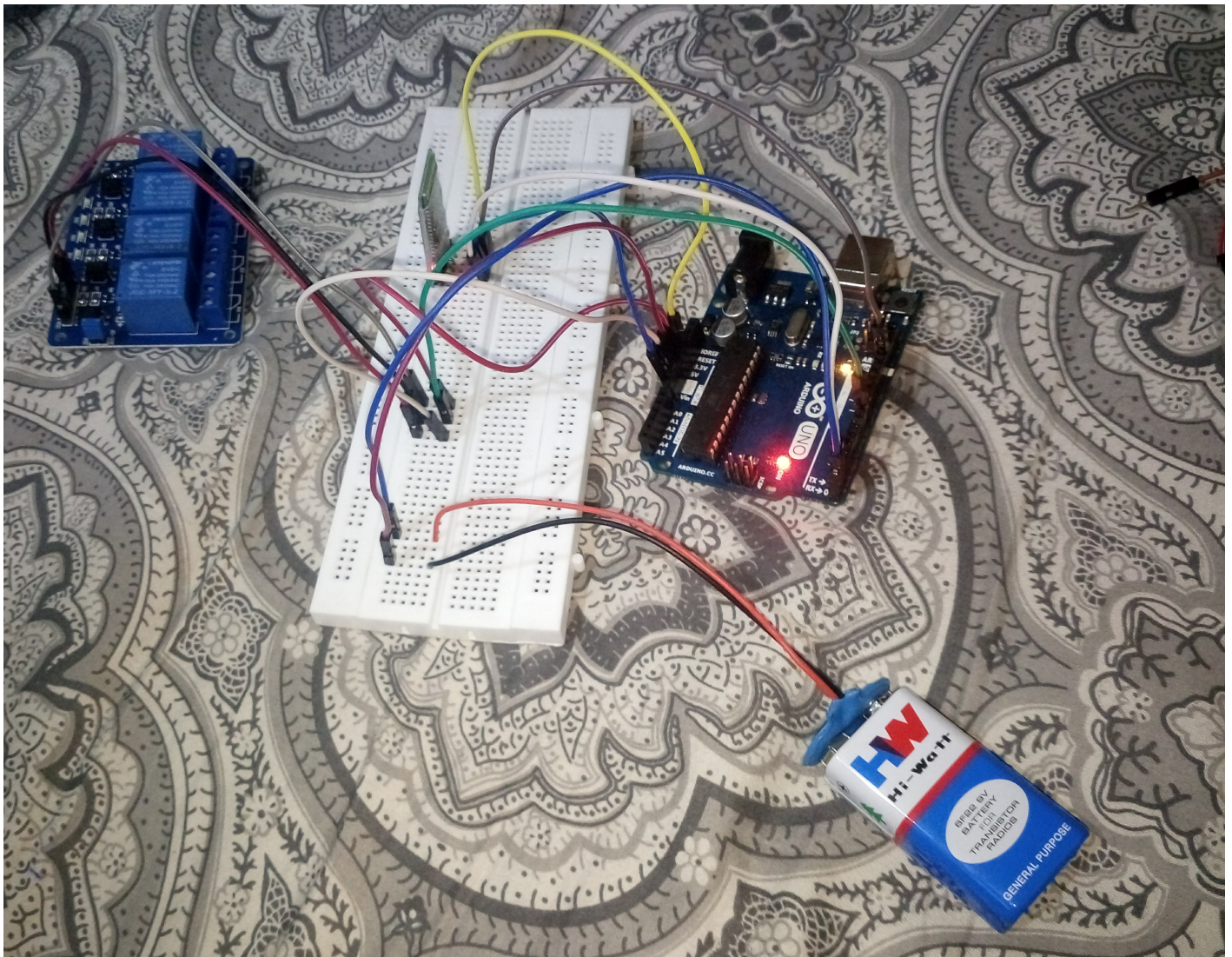
## Novelty

Since 'Internet of Things' is new to the general public and many people are not aware of this topic, we have chosen this topic so that people take the benefits of it. The basic novel idea is to provide the automation facility to the people.

## Screenshots



This is how our app is looks like. Its first activity has three buttons to scan the system, select the device and connects to it. User can press the image given in the first activity to know how it works.



This is the main circuit which performs all the tasks related to switches. Arduino is connected to relay and bluetooth is connected to the breadboard through Ic. A 9V battery is used to power this thing up.

## Roles and Contributions



Developer  
Analysts

**Brijen M Makawana**