**Abstract**

**Nowadays, people have smartphones with them all the time. So it makes sense to use these to control home appliances. Presented here is a home automation system using a simple Android app, which you can use to control electrical appliances with clicks.**

**This document describes our project and how it fuses GPS technology into the most trending home automation technology.  
  
The truth is that home automation systems have the power to simplify everything within your home and life and hence we are motivated to work on this project. The project not only gives a remote access to home appliances but also helps save electricity by prompting to switch off the appliances when you are away from the home. Thus energy conservation along with IOT has been the motivation for this project.**

**OBJECTIVE:**

**This project has a clear objective of providing a GPS based home automation system which facilitates the user with the service of accessing electrical appliances of their house from any distant place around the globe. Not only that it also notify its user to switch on/off the electrical appliance according to the distance of the users from their house. If the person is within the geospatial zone of his house, it will ask the user: “you seems to be near the home. Do you want to switch on any electrical appliance?” and if the person forget to switch off the lights and he is far from the house then it will ask the user: “you forget to switch off the lights. Do you want to close them?” It will find the location of the person through the GPS system of his mobile phone and the rest of the functionality is provided through an app which is provided to the user as an interface between power appliances and the user.**