**Wi-Fi Lighting Control on Android**  
*Project Code: CM3-13*

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**Introduction**

- Light On/Off Controlled by Wi-Fi Connection  
- People are looking forward to smart home design  
- Wireless lighting control has a huge potential market  
- Smart lighting control is needed in every environment

**Project Aim**

- To build a system to connect light bulbs with a smart phone  
- To be user-friendly and ease people’s life  
- To be free in the Google Play store

**Hardware**

- An Android smartphone  
- A distinct light bulb  
- A MCU system

**Software**

- Java programming (for Android)

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**Objective**

This FYP is to construct a smart-lighting system that the light is controlled via Wi-Fi connection. We aim at providing a more convenient way for people to control the lighting wirelessly. Turning on and off the lights may be easy for normal people, yet, it may be a challenging task for people in need like elderly and disables. Therefore, we believe our Wi-Fi Lighting Control System is the solution to their problems. The control of lightings only requires gentle touch to the screens of smartphones. Accessibility to lighting control for people in need is greatly increased.

**Methodology**

Both the hardware implementation and software part will be included in this project. For the hardware implementation, the Wi-Fi Lighting Control System consists of components like Multipoint Control Unit (MCU), Wi-Fi module, and etc. They are used to receive data through Wi-Fi and commands will be carried out. As for the software part, we have designed an Android application for controlling. We have chosen the Android SDK to develop the application.