Technofist

ANDROID MEETS LED BULBS IN SMART HOME

AUTOMATION

INTRODUCTION

Android is a free, open source mobile platform. It is a Linux-based, multiprocess, multithreaded

Operating System.

Android is a software stack for mobile devices that includes an operating system, middleware

and key applications. By providing an open development platform, Android offers developers the

ability to build extremely rich and innovative applications.

The Android SDK provides the tools and APIs necessary to begin developing applications on the

Android platform using the Java programming language.

PRODUCT PERSPECTIVE

Smart Home Technology can be implemented using various techniques, such as, by using an

X10 device or WiFi. But, they have certain limitations. Communicating over electrical lines is

not always reliable because the lines get "noisy" from powering other devices and an X10 device

could interpret electronic interference as a command and react, or it might not receive the

command at all.

Bluetooth is selected as our way of communicating PDA/Mobile with the central system.

Bluetooth is selected over WiFi for various reasons: First of all, Bluetooth security is less

complex and more stable than that of WiFi. Bluetooth manages a security measure of only

permitting certain selected devices to interact with them; WiFi, on the other hand, establishes a

WEP key that has been known to be cracked. Another reason for Bluetooth to be selected over

WiFi is that, Bluetooth has a shorter range of signal emission than WiFi. This is a pro because

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