HOME AUTOMATION SYSTEM: INTEGRATING iPHONE APPLICATION AND SMS SYSTEM WITH HOME AUTOMATION SYSTEM

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ABSTRACT
The author of this thesis is developing software that is able to control household appliances from mobile devices. This project is divided into two parts which is server and mobile devices. Mobile devices sent a command to server to control household appliances. Server will process the command from mobile devices to make changes in appliances. Mobile devices used in this system are iOS-based devices (iDevices) and any mobile phone with SMS feature. This project named Home Automation.

iOS devices interact with server via web service. Mobile phone interacts with the server by sending an SMS to SMS Gateway that the author made by his own. Some additional features provide by Home Automation System are reminder and profile. Reminder is used to remind user about their household appliances by sending SMS to user phone number. Profile is used to control several appliances at once.

The aim of this project is making a runnable mobile application for iPhone, iPad, and iTouch (iDevices) as well as SMS system that allowed the user to control their appliances from a distance at anywhere and anytime. The benefits of Home Automation System are helps reducing house fire number caused by short-circuit or stove explosion by reminding the user about their appliances and helping disable and senior people to control their household appliances.

The author is successfully developing a program that allowed user to control their household appliances from a distance via iDevice application, SMS, and website with a reminder and profile features.

KEY WORDS:
Web service, ios devices, SMS Gateway, SMS, Server