

COMPUTER TELEPHONY INTEGRATION (CTI) REMOTE HOME AUTOMATION

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ABSTRACT

The reason the author came out with this idea is to provide more convenience for the homeowner. The users are allowed to control the electrical appliances at different locations in their house.

As for the first phase, the author did the literature review in the concept of home automation using computer control and methods of implementation. The purpose of doing the literature review is to have a clear concept of home automation and find out what are the possible methods to implement it in a more effective way. After having the concept of home automation, the author investigates the technologies and analyzed the hardware that can be used to develop home automation using computer control. By using the suitable technologies and hardware to develop this project, this project can be successfully developed without wasting the resources.

For the second phase, the author came out with a draft design for the project requirement and specification based on the information that has been gathered in the first phase. After the draft design, by having the circuit design, the author was able to understand the method of developing the circuit board that connects the relay and parallel port, then he choose the appropriate hardware that is needed for developing the circuit board.

Besides this, for the third phase, the author makes sure that all the function included in the design phase is appropriate for the title of the project. After that, the author chooses the appropriate programming language to develop the project. After selecting the appropriate programming language, the author starts to implement his system.

Finally in the fourth phase, the author has to conduct testing with potential users in order to gain the feedbacks and suggestions from various users. Besides that, form the user evaluation, the author identified the future work opportunities and enhancement of this project.