BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT
Program	DEP 5B
Department	JABATAN KEJURUTERAAN ELECTRIC
Semester	SEM 5
Project Title	AUTOMATIC TOILET USING ULTRASONIC SENSOR
Type of Project	Science physical
Cluster , Category / research	Tick "/ " where applicable.

	Pure Science
	Applied Science
/	Technology and Engineering
	Clinical and Health Science
	Social Science
	Arts and Applied Arts
	Natural Science and National Heritage
	Information and Communication Technology

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Objective	i. To reduce light electricity wastage in residence areas. ii. By using an ultrasonic sensor, it will become easier to the user to enter the toilet. iii. To remind the user to flush after they done used it. iv. By using an automatic air freshener is to create a good aroma in the toilet.

Scope	i. It only can be use in a room with (10ft X 8 ft).
	ii. After the user flush, the light will automatically off after 20 second.
	iii. Distance between the people and ultrasonic sensor is only 5 meters.
Keywords	Toilet,
Abstract	Automatic toilet using ultrasonic sensor a system that will control the electronic device in the toilet. The system will control the by using an Arduino Uno system. Furthermore, this system is created to make easier for the user to use the toilet. Problem that we can see is people in residence tend to leave the empty toilet without switching the lights off. To overcome this problem, we create an automatic light to reduce light electricity wastage in residence areas. Other problem we can see, some of the toilet are really smelly because of the behavior a few of the user who are lazy to pull or push the flush. To solve this problem we make the toilet flush as a button to open the door. This is as a reminder to the user to flush it after use and before leaving the toilet. We also include the automatic air freshener to make the surrounding in the toilet be more fresh and comfortable. As the result we get to help the people who have a problem with high electricity bills payment by crated this automatic system. We also help the toilet in the residence be more aromatic and more comfortable when using it.
Suggestion for future work	In our project, there are have advantage and disadvantage that need to be repair. The shortage may be modified in the future. As well as improving the reset in front of ultrasonic sensor to reset again so that all inactive. In addition, the door sensor can be change using automatic it so that when the automatic door solenoid cannot be open because stuck or else, solenoid when not connected with power supply solenoid will open on its own. Other than that, this project can do at suitable place such as cat toilet, cat food place, wardrobe and others. This project is not focusing on the home toilet only. This project can be innovatively more smart in the future.

| Picture related to project | |