

BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION		
Program	DTK		
Program			
Jabatan	KEJURUTERAAN ELEKTRIK		
Department			
Semester/ Tahun	LIMA		
Semester/ Year			
Tajuk Projek	SMART POWER OUTLET USING ESP32		
Project Title			
Jenis Projek	INOVASI		
Type of Project			
Kategori Kluster	TEKNOLOGI DAN KEJURUTERAAN		
Penyelidikan <i>Category</i> /			
research Cluster			
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Co-Supervisor			
Abstrak	Smart Power Outlet (SPO) is a webserver based wireless power outlet that uses		
Abstract	Android application for the user interface, enabling users to control physical		
	devices on their smart phone. SPO uses 802.11 b/g/n in controlling the power		
	outlet. SPO is developed as a low cost alternative in Internet Of Things		
	technology. The aim of this project is to design a mobile apps interface to		
	remotely switch on and off power outlet in facilitating user monitoring their		
	power outlet, which will encourage more people to install smart power outlet		
	technology in their home. SPO has achieved success in implementing core		
	features such as plug and play coordinator setup, monitor temperature, on and off		
	switch, RGB colour control extension to an Android Smartphone devices. Also,		

Keyword <i>Keyword</i> (max 5 word)	SOP control interface is optimized for touch input. This is possible with the use of Android application (SOP) which is a web based multimedia platform. One of the major challenges in this project is how to send data over COM port using Android application, as it does not natively support such feature. Also, setting up a secure connection between coordinator and end devices is another challenge that has been solved in SOP. In short, SOP is successful and have achieved the aim and objectives. Improvement has to be made to the overall stability of SOP and integration of SOP and commercial products could be further investigated. Also, SOP could expand to control all power outlet in one house from power monitoring to security in the future. SMART POWER OUTLET
Objektif Projek Project Objectives	 To develop simple power outlet that can power off using timer to prevent power from overload. To design a mobile apps interface to remotely switch on and off power outlet in facilitating user monitoring their power outlet. To evaluate the temperature of power outlet by using smart power outlet.
Skop Projek Project scope	-The power outlet can plug for two device in at a time -It only can use 3 pin power outlet for the safety -It design just for indoor use only

IP No	
Dapatan Finding (500 words max)	Research, article, internet
Cadangan untuk kerja-kerja akan datang Suggestion for future work (500words) Gambar berkaitan projek	The first step to develop smart house
Picture related to project (700kb)	<image/>

Rating/Level	JABATAN	

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Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelaras projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J) dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.