ABSTRACT

A number of traffic accidents occur because of damage to the car's engine and it is unknown to the driver of the car. In this modern era the internet has become a common thing in every circle that has side by side with the internet ranging from children to adults. The implementation of OBD-II can also be linked to the existence of the Internet of Thing (IoT), the development of technology is increasingly advanced one of them in the automotive sector. On Board Diagnostic II (OBD-II) is a socket in a four-wheeled vehicle (car) that functions to determine the condition of the car's engine through the Engine Control Unit (ECU) on the car. In the system in this final project by utilizing the On Board Diagnostic - II (OBD-II) feature to read the parameters in the car's Engine Control Unit (ECU) through a protocol that matches the car's ECU, the data will be recorded by ELM327 and forwarded to Arduino Nano to be translated from data that has been recorded by ELM327. Then the data will be sent to the internet or server via GPRS by using the 800L SIM for further analysis needs. In this implementation the results obtained are ELM327 succeeded in recording parameters on the ECU and the data was successfully sent to the cloud server through General Packet Radio Service (GPRS) so that later in the development of this study the user could find out information about the condition of the car based on parameters obtained and be analyzed go further on the future development.

Keywords: OBD-II, ECU, Internet