PENGEMBANGAN APLIKASI E-TILANG BERDASARKAN KADAR ALKOHOL PADA PENGENDARA

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ABSTRACT

In everyday life, humans do all the substantial activities, both heavy and light activities. Of course, it will require energy or energy to carry out all these activities. Humans' energy can be obtained through the consumption of food and beverages, including foods and drinks that contain alcohol. Humans have consumed ethanol in food and alcoholic beverages since ancient times with a variety of different uses. Consumption of large amounts of alcohol can cause a person to become high or intoxicated. In some foods and drinks on the market, many contain alcohol in them even in small amounts. If alcoholic beverages are consumed continuously in excessive amounts, it can cause acute respiratory failure and death. Because ethanol can dispel consciousness, humans who consume it can commit evil deeds that they are not aware of it. Accidents that occur in driving are part of another implication of the abuse of alcohol use. Consuming too much alcohol decreases human performance in driving, thereby increasing the risk of an accident or reducing the driver's chance of survival. About 40% of the total deaths that occur in traffic are related to alcohol use. A system for detecting the use of alcohol against motorists is needed to reduce this. This system's design uses an MQ-303A sensor based on the NodeMCU ESP2866 microcontroller with a wifi module that will be connected to an android smartphone in the form of a simulation of the E-Tilang application, where this application can report drivers identified as alcohol in real-time.

Keywords: Alcohol, Microcontroller, NodeMCU, ESP2866, Database.