

PROTOTIPE GARASI PINTAR MONITORING KEADAAN MOBIL BERBASIS IoT

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Abstract

Car became one of options private vehicle or public transportation that can be ensured the quantity each year increased. Standard OBD-II on the car that allows for monitoring state of the car whose car is damaged or the car is not damaged. Malfunction Indicator Lamp on the car light up indicating there is damage. However, by looking at Malfunction Indicator Lamp car owners do not know for sure the damage to his car.

Standard OBD-II cars had the Engine Control Unit that stores the data. *Garasi Pintar* system designed to read data of car so car owners understand the damage that occurred in his car.

Garasi pintar system will be implemented on a taxi pool. System work by process data using Engine Control Unit Emulator as a replacement Engine Control Unit in car into understandable by car owners. Information contained on *garasi pintar* system such as accumulator voltage, Diagnostic Trouble Code, Readiness can be seen car owners using android smartphone that require internet connection. Internet connection required to access the data to the *garasi pintar* system server.

Garasi pintar system provide information to car owners such as accumulator voltage, Diagnostic Trouble Code, Readiness and conclude the state of car in normal state or there is damage. The vehicle owner can know the state of his car in realtime.

Keywords: car monitoring, garasi pintar, Engine Control Unit, Diagnostic Trouble Code, Readiness.