

ABSTRACT

The use of Vehicle Data Recorder in automotif vehicle have become the norm, Vehicle such as Police car and ambulance are usually outfitted with a Vehicle Data Recorder device that has more accuracy and more detail, this device is used to monitor the vehicle usage, but in a case where the data cannot be recovered because a malfunction or an accident happen then data has a risk of damage at which the data cannot be recovered.

To fix this problem where the Data of Vehicle Data Recorder cannot be recovered, the writer has design and made a Prototype Navigation System as a long range Vehicle Data Recorder based on a onboard Vehicle Data Recorder that's been installed on a car. In this system the Vehilce Data Recorder will send its data to a Server that will store it's data, so the Data can be used in another time, this Data then can be called to a Computer Program to monitor the vehicle condition.

In order to monitor the vehicle remotely the vehicle is installed with GPRS for sending data, in monitoring the vehicle a program that will receive the data that's been sent, the program will show the condition of the vehicle in tabular form and to show the vehicle's position then a map is made on the program so that the user can monitor the condition of the vehicle

As for the System test, the system will be test with a simulated condition where the system will accept a data based on a moving car with a predetermined route to show the system performance and diference in time when the vehicle send it's data and when the program is shown at the program. Based on the test it is found that the system will be able to read 300 Data in a second and receive 238 Data in a second

Keywords: Internet Of Things, Vehicle Data Recorder, Web application, Vehicle monitoring