Vehicle Heat Monitoring System

Introduction

Self-driving automobiles will be the future in the age of artificial intelligence, with autonomy in the hands of the autonomous vehicle's circuits. There will be manual-driven automobiles on the road alongside autonomous vehicles. As a result, the impact of vehicle monitoring in enterprises today is quite astounding in terms of ensuring safety and security, checking condition, and improving vehicular efficiency. The created Vehicle Monitoring System (V.M.S.) focuses on monitoring a vehicle that has this system installed inside of it. When this technology is turned on, it will continuously monitor the vehicle's location, co-content, and collision scenarios. As long as the V.M.S. is up and running and powered on, it will continue to do the tasks that have been assigned to it. The main goal of our project is to build and construct a system that can monitor the passenger's existence as well as Heat Monitoring and Displaying.

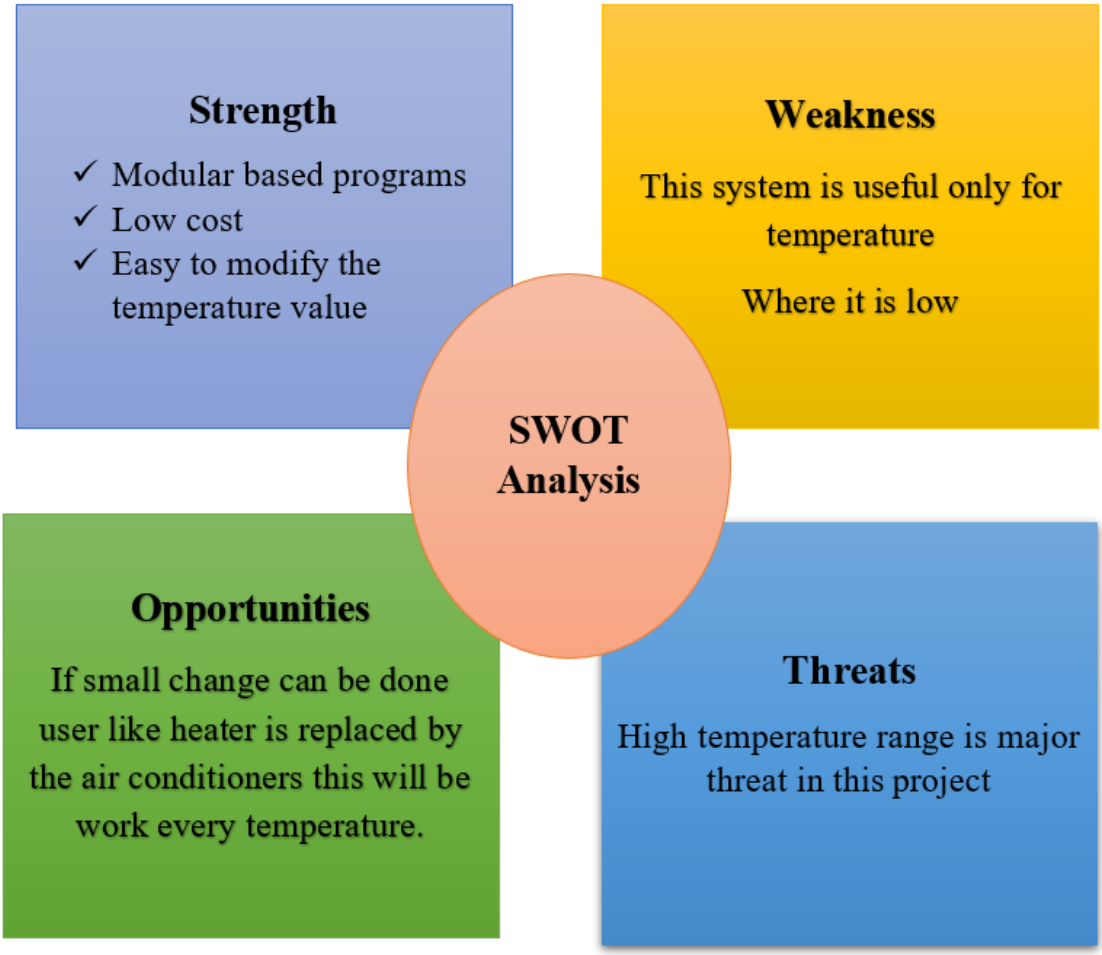
Research

Depending on the surroundings, the vehicle monitoring system can be used for a variety of purposes. It can be easily adjusted, modified, or redesigned to respond in accordance with the environment's needs as and when they arise. Today's Comfort Control Systems help us more than ever before. They're in charge of keeping your automobile clean, cooling it down on a hot summer day, and employing Cruise Control to keep it moving at a constant speed. This microcontroller is found in a wide range of devices, including vehicles, because it is simple to incorporate.

Features

The passenger can adjust the temperature by looking at the display, which is provided in the system. Modular Programming is a type of programming that is based on modules. The temperature in the car can be changed by both the driver and the passenger. It is capable of determining whether the user is in the car or not.

SWOT Analysis



4W"S and 1H

WHO

The device can be used by anyone inside the vehicle.

WHAT

Temperature will change, that time the sensor will detect and the microcontroller will work.

WHEN

when the temperature is change in car, this project will display the details.

WHERE

Inside the car, house, industry etc.

HOW

Microcontroller will activate the heat generator.

High level Requirements

ID	Description
HR01	Temperature Sensor
HR02	Microcontroller
HR03	Heat Generation
HR04	Switch
HR05	Display

Low level Requirements

ID	Description
LR01	ATmega328
LR02	SimulIDE LCD and LED
LR03	Push Button
LR04	AVR GCC compiler
LR05	LM35 and ADC