# CIRCUIT DIAGRAM AND WORKING OF THE PROJECT:

Pulse sensor

GY- GPS 6MV2

NEO06M-0-001

24221857710

1816

0100 21

Wi Fi

ESP32

WROOM-32

GND

D23 D22 TX0 RX0 D21 D19 D18 D5 TX2 RX2 D4 D2 D15 GND 3V3

EN D36 D39 D34 D35 D32 D33 D25 D26 D27 D14 D12 D13 GND VIN

TX

RX

VCC

CP 2102

6SP 061225

1100 mAh 3.7V

The project utilizes various hardware components to monitor and ensure the safety of passengers in automobiles. The system is designed to integrate with the seat belts and employ sensors to collect data related to the passenger's vital signs, speed, and location. The collected data is processed and analyzed in real-time to assess the passenger's safety status. In the event of an emergency or distress situation, appropriate actions can be taken promptly.

## Components:

ESP32 Microcontroller: This acts as the central control unit of the system, responsible for data collection, processing, and coordination between different components.

GPS Module: The GPS module provides real-time positioning information, enabling accurate assessment of the vehicle's speed and location.

Pulse Sensor: This sensor is used to monitor the passenger's vital signs, particularly heart rate, allowing for the detection of abnormal cardiac activity and potential health issues.