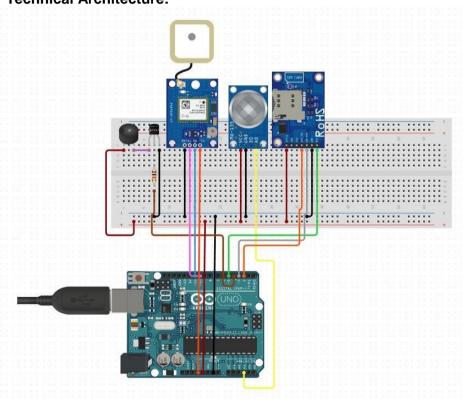
Project Design Phase-II Technology Stack (Architecture & Stack)

Date	25 October 2022
Team ID	PNT2022TMID08134
Project Name	Gas Leakage monitoring & Alerting system for Industries

Technical Architecture:



TECHNICAL

- ◆ MQ135 Gas sensor
- ♦ Arduino Uno
- ◆ GSM SIM800 Module
- ◆ Neo 6M GPS Module

FUNCTIONAL

- ◆ Detects the Gas Leakage
- ◆ Type of Gas
- ♦ Alert the user

Hardware Requirements

- Arduino Uno
- Piezo Buzzer
- Transistor NPN BC337
- 1K Ohm Resistor
- USB Cable A to B
- Ublox NEO-6M GPS Module
- Hazardous Gas Sensor MQ-135
- QuadBand GPRS-GSM SIM800L
- BreadBoard
- Jumper Wires Pack M/M

Software Requirements

- Arduino IDE
- Python

Working:

- **Step 1**: If the MQ sensors recognizes a gas leak. It notifies the user and sends them information about the type of gas and the location using a Neo-6M GPS module.
- Step 2: The web application's users can log in and monitor the status of Gas Sensor Devices.
- Step 3: The administration and the fire department can locate the leak quickly and investigate it. And avoid the

Accident