

SYNOPSIS

IOT BASED AUTOMATED PETROL PUMP

INTRODUCTION: An IOT-based automated petrol pump leverages the Internet of Things (IOT) to modernize and optimize the fuel dispensing process. The vehicle driver must pay for fuel with cash and may be required to pay more than the amount of fuel provided owing to a scarcity of small change available from the station operator. It is quite costly to locate fuel stations in remote places in order to give outstanding customer service. All of these issues are addressed by the use of unmanned fuel pumps, which take less time to run, are effective

METHODOLOGY: The user will provide their cell phone number and password to access the online platform. After logging in, he will enter the amount of fuel in litres, which will be subtracted automatically, and he will be given a secret code. He must input that code at the petrol pump, after which the hardware unit will contact an internet server to obtain the amount for the petrol pump for that user and release that quantity of petrol for that user.

OBJECTIVE: 24/7 Availability: Enable round-the-clock operation without relying on human staff, increasing the accessibility of the service to customers at any time.

Reduce human error: Automatic petrol pumps reduce human error by using technologies like RFID cards and cashless transactions.

Save time and money: Automatic petrol pumps are more time and cost efficient than traditional petrol pumps.