College code :4212

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Reg. No:

Public Transportation Optimization

Introduction

- Provide real-time information such as traffic conditions , vehicle locations, estimated time of arrival and service status. Live tracking of vehicles to inform passengers about their current location. Develop an accurate systems that predicts that arrival times of public transportation vehicles at stops or stations. notify all the information about ridership to nearby stations. Implementation of features like seat availability indicators, priority seating for specific groups and improved in the accessibility.

IDEALOGY

- The public transportation optimization ,in particular, plays a vital role in people movement.
- Intelligent public transportation is a fundamental development sector with great potentials for fast digitization as cities across.

- By bringing the best of the IoT, RFID, Cloud Computing, various solutions can be introduced to address many issues faced by the public transportation especially buses.

Components Required

▶Arduino Uno microcontroller

▶ SIM800/900 GPRS Module

▶ NEO-6M GPS Module

▶ RFID Reader

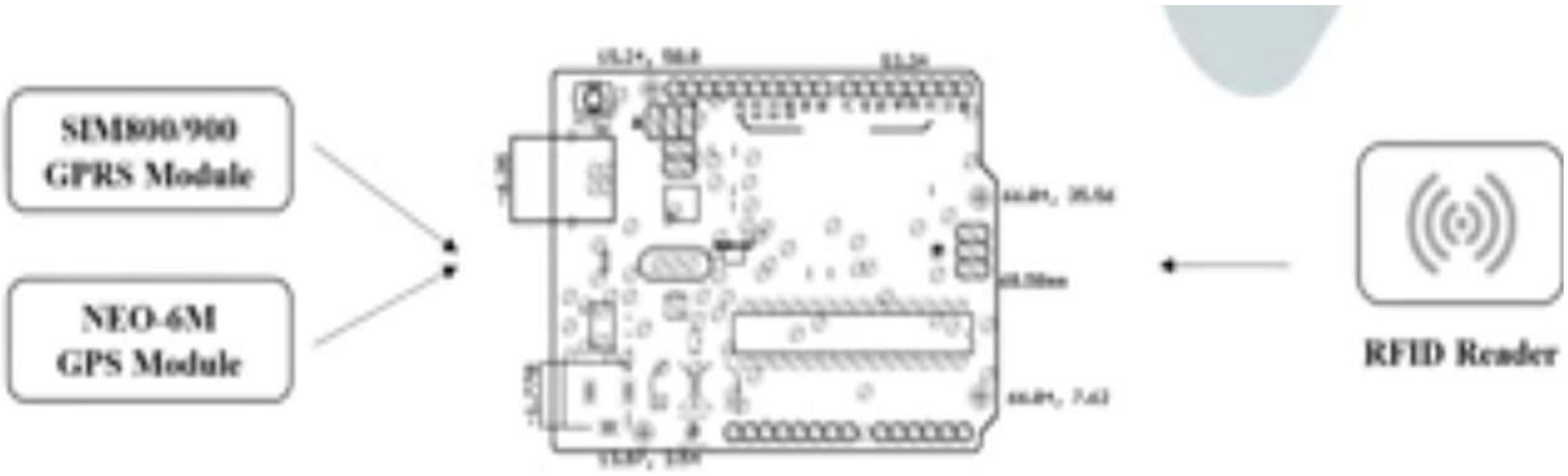
▶ Standard 125KHz RFID card (with unique 32-bit ID)

In the circuit, if you want AC Voltage they you can used to standard 125KHz.

Otherwise you can directly give 5 volt DC supply to the circuit.

The Arduino Uno microcontroller there are connected to SIM800/900 GPRS Module and NEO-6M GPS Module.

They have in RFID Reader will be connected to the ardunio uno microcontroller.


SIM800/900
GPRS Module
NEO-6M
GPS Module
RFID Reader