



AUTOMATIC UNAUTHORIZED PARKING DETECTOR WITH SMS NOTIFICATION TO OWNER

¹ Karthika.K.B, ² Muhilarasi.J, ³ Priya.M, ⁴ Pradheep T Rajan
^{1,2,3} UG Scholar, ⁴ Assistant Professor
^{1,2,3,4} Francis Xavier Engineering College

Abstract - The main objective of this project is to identify the unauthorized parker who were parked in the authorized area and fine those owners. This is used to avoid the illegally parked, bribing the personnel and threatening them etc. In here we used the RFID tag, which contain some information. The RFID is stands for Radio Frequency Identification. The RFID reader is used to read the transmitted ID and if the person id is not match then automatically the alert information is send to the owner by the SMS notification. This is an innovative electronic parking payment system. This may use to produce a solution for the municipalities, and the private parking lot owners. By using the RFID technology the solution has been provided for encountered in the parking-lot management system.

Key Words: Arduino Mega Microcontroller, Ultrasonic Sensor, GPS, GSM, Buzzer, LCD display.

1. INTRODUCTION

The parking violation is the act of parking the vehicle in the unauthorized place or parking in a restricted area. The current scenario in major cities and towns is the ever-growing human population as well as the vehicle population. Those things creates the rise to need for the multi-level parking lots. The free parking is the most prevalent forms of parking in India. In case the people planned to park in the street side but there is no vacant places, the people drive around hunting for the place. Especially in the metropolitan area there is a problem because of the increase of the cars and the decrease the amount of the free space.

In our project the parking management system provide such a features like security management system, dynamically allocate the slots and this is used to count the number of vehicles inside the parking area. The number of the driver grows, so it brings the convenient and safe parking.

II. EXISTING SYSTEM

Now a days parking a vehicle in a free space is a major problem in all countries because of the lagging of parking area. In the previous system the traffic indication system will be used in there. The vehicle will be parked if the place denoted as parking. Otherwise the people don't have the rights to parked in the prohibited area. In-case if a driver has been parked in that place then the traffic police will give the penalty to the unauthorized person. This may not be possible in all time. Because there is no electronic equipment or automatic devices are fitted in the board. There is no intimation earlier.

III. PROPOSED SYSTEM

Radio frequency identification (RFID) is a wireless data transmission which uses the electromagnetic field to identify automatically. The information stored electronically in the RFID tag. The RFID reader is used to reads the information that the RFID reader contains. Those functions is done by the radio wave interrogating from the RFID reader. By using the RFID technology the solution have been provided for the problem contains in parking lot management system.

Our project is an innovative electronic parking payment system. This may use to provide the solution for the private parking lot owner, municipalities. The LCD is used to display the current nature and the red and the green lights are used to indicate the person is an authorized or unauthorized. And also here we uses the ultrasonic sensor and the GPS to identify the distance measuring and the location tracking.

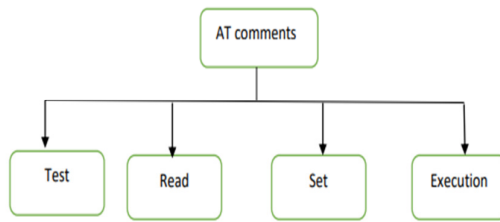


Fig: 3.1 Diagram for SMS comments

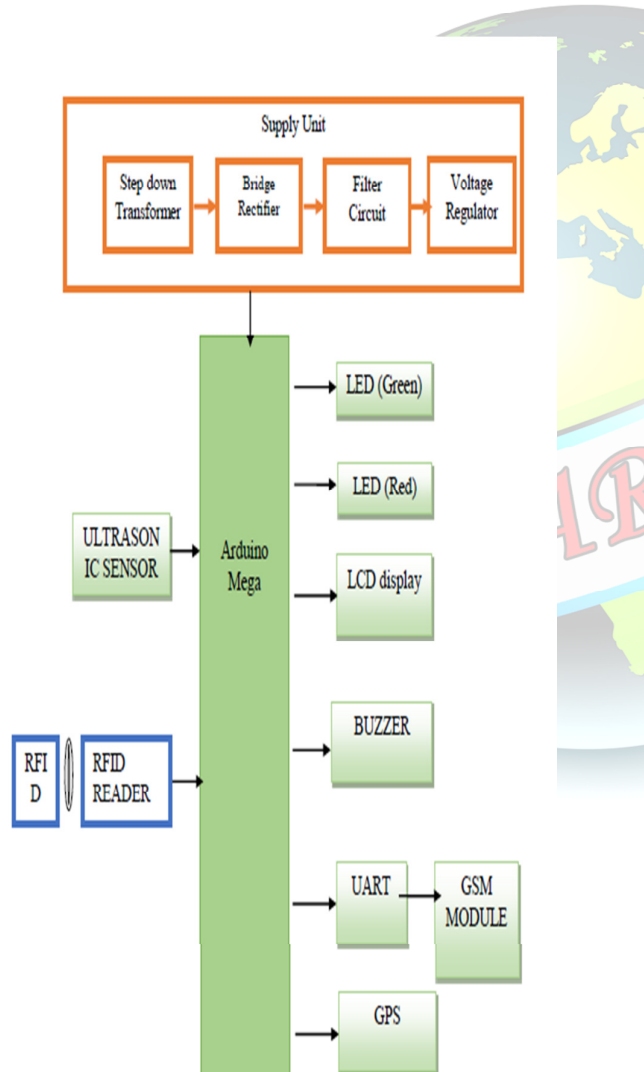


Fig: 3.2 block diagram for hardware unit

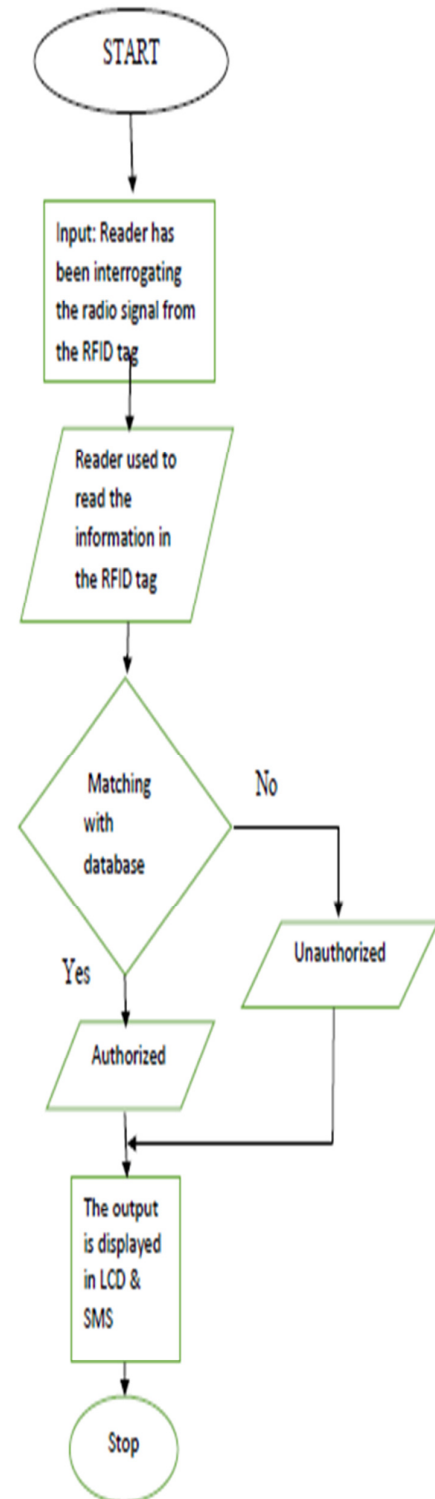


Fig: 3.3 Flow chart

IV.RESULT & DISCUSSION

At first, the passive RFID tag has been placed in the RFID reader. The RFID reader is used to check the information those are matches with the database. After the conformation the person will be allowed to park in the place and the SMS notification also send to the owner. If the person is not the authorized or illegally parked in the slot then the warning message will be send to the both owner and the person who were parked in the place illegally. Additional we have insert the ultrasonic sensor and the GPS. Which is used to measure the distance and to tracking the location were the parking area

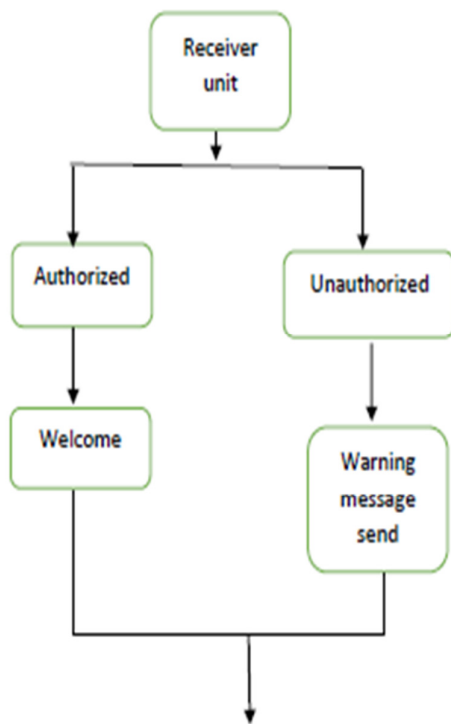


Fig: 4.1Receiver unit

V. CONCLUSION AND FUTURE ENCHANCEMENT

We have conclude that by using of the RFID car parking system which is used to develop the automated parking system the vehicle will be park without the presence of the security office. By checking the id proof for the user, if an unauthorized access in the car parking area the alarm will be enable automatically. Therefore this is used to reduce the waiting time for the parking area and this may increment the efficiency of the parking lot. We have assure that our project going to build like much better than the current process.

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