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Li-ION BATTERY FROM INDUSTRIAL WASTE WATER

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ABSTRACT

- The proposed system is an IoT based bus seat occupancy detection system consists of force sensitive sensor. The system able to detect pressure applied on the seat. The needs of manually count number of passengers is eliminated as bus driver able to monitor bus seat occupancy status remotely in visual form.

INTRODUCTION

- This work presents prototype of IoT Based Bus Seat Occupancy Detection System with force sensitive resistor sensor. This can help bus driver to reduce the unnecessary workload.

METHODOLOGY

OBJECTIVE

- To develop a system to detect pressure applied on the seat using Force Sensitive Resistor (FSR) sensor and Arduino platform.
- To develop a system where the bus driver can view the seat occupancy status of the passenger using Android application when the pressure is detected on the seat.
- To develop a system that eliminates the need for bus driver to manually count the number of passengers on the bus.
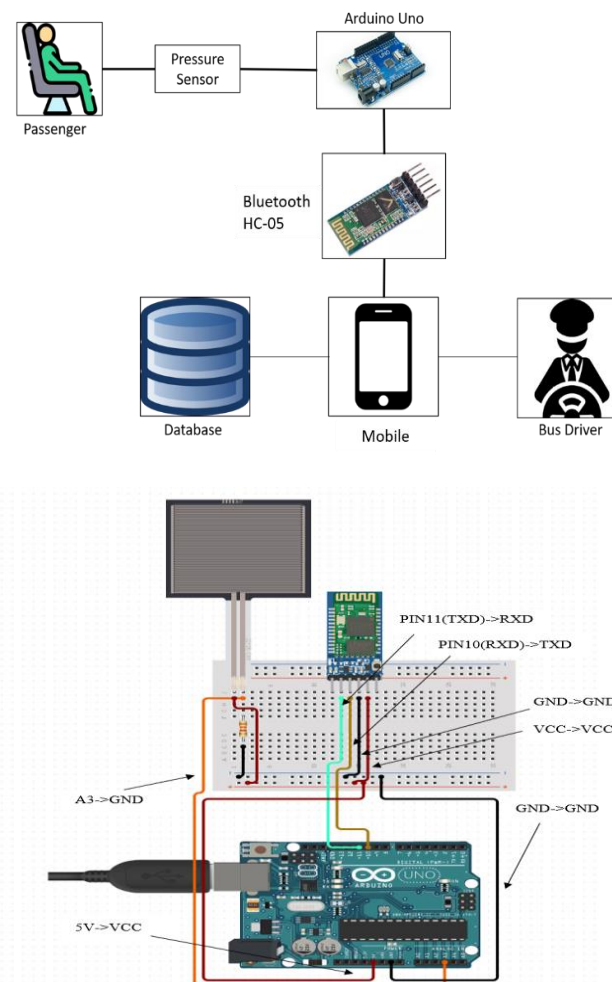
PROBLEM STATEMENT

- Manually count the number of passengers
- Spend plenty of time to verify the details of all passengers
- Not aware of unauthorized passenger
- Unable to remote monitor seat occupancy status

SCOPE

- The force sensitive resistor (FSR) will focus on detecting the pressure exerted on the seat.
- Detection of passenger seat occupancy on the bus is developed using Arduino board, Bluetooth HC-05 and Android Studio.
- Develop mobile application allows bus driver to view passenger seat occupancy on the bus remotely.

CONCLUSION

- The proposed system can detect the pressure applied on the seat accurately. The proposed system enables bus driver to eliminate the needs of manually count number of passengers. Bus driver can view seat occupancy status in visual form remotely in the system.