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Railway Level Empty Boggie Identification System

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Abstract: *In these days world 50% of population travel with the trains. Whenever we travel with trains we usually see the General boogie is always overloaded or in holiday time there are most boogie overloaded. There might be sceanario that a few boogie is overloaded and a few are vacant. This problem leds to sad journey in overloaded boogie. So, this hassle might be solved through our venture. In this venture we can make adventure of passenger who does no longer have their reserved ticket. We are going to use two Infrared ray sensor and arduino kit. User will have our android app and will pick a teach no from our android app. when consumer pick out and presses submit button it's going to get the reputation of every and every boogie rush. With the help of rush fame vacationer can find the empty boogie and will go on that boggies. Sometimes many injuries are passed off because of lot of rush and we additionally pass over our train because of the rush on the platform. So, our mission will assist to locate rush in boogies and consequently passenger will get reputation of boogie and because of that rush on the platform will reduced and the no of injuries happend may also be decreased. So, our undertaking will make the adventure of passenger "Happy".*

I. INTRODUCTION

Railway data system is commonly built upon a laptop based network to guide rail information collection transmission, processing and dissimulation as a way to make sure secure and strong rail transportation and provide high pleasant operational service as well as passenger records machine. A new era wireless application protocol and internet technologies from next era is utilized. The project is designed to acquire manipulate over the railway degree Empty Bogie Identification System by means of the patron. The proposed system can have android application that allows you to tell no of human beings inside the Bogie. This system entails sending an SMS to consumer while teach is a few KMs away It will show purple, yellow, green shades to Bogie relying upon the frenzy Our undertaking introduces railway empty Bogie identification gadget with an objective to make the system more green, less complicated and fast. This challenge explores how pc technology can be used to clear up the hassle of user

II. MODULE IDENTIFICATION

- A. Arduinio Module Development
- B. Passenger Rush Detection
- C. Saving the Rush Counter
- D. Android App

III. MODULE DESCRIPTION

A. Arduinio Module Development In this module we are connecting two infrared ray sensor to our arduino kit. They are connected each other to at least one. We are initializing the passenger depend to zero for the first time. B. Passenger Rush Detection each time passenger eneters in the educate sensor one in on first and then sensor two is on so we are able to predict passenger is coming into the boogie We boom the count number of the passenger and bypass the cost to subsequent module. on every occasion passenger exits from the train sensor in on first after which sensor one is on so we can are expecting passenger is exiting the boogie .We decrease the remember of the passenger and bypass the cost to next module. C. Saving The Rush Counter In this module, the entire count of rush will be saved in database. D. Android App This app will display us the all records of boogie. When rush is more than 70%, the might be red When the frenzy is ready 45%-50%, the signal may be yellow. And, when the frenzy is under 20%, the sign may be green.

IV. LITERATURE SURVEY

In literature evaluate it's miles observed that the tracking of crowd inside the bogie inside the railway includes particularly the following steps: A. Sensing: It is the sensor which detects the in and out of the passenger B. Transmitting: Sensor Transmites the sign to controller C. Processing: Controller do the processing. Depending upon the in and out status of the passenger. D. Displaying: Displays the crowd in bogie the use of above point out color code.(purple,green,orange)

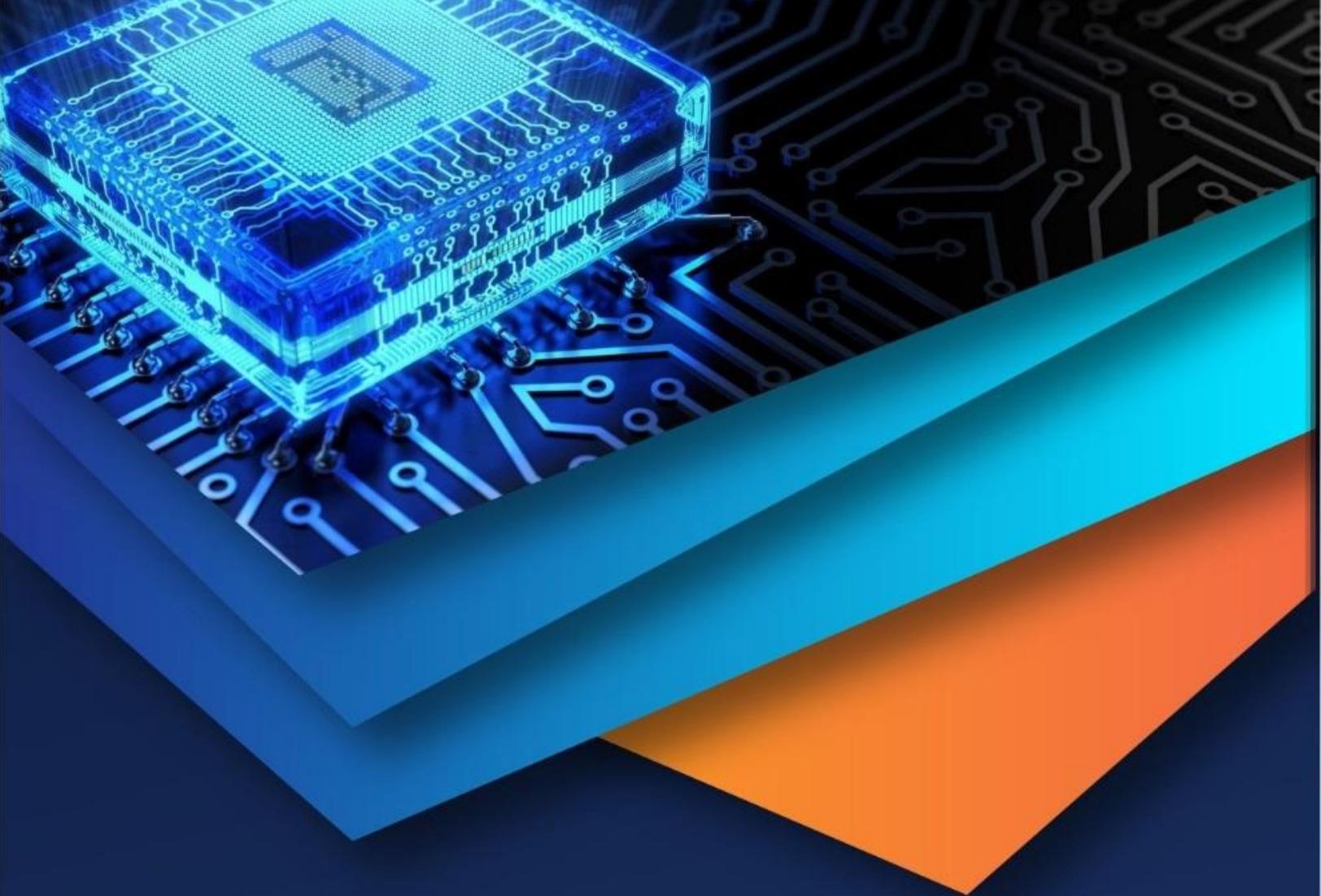


V. CONCLUSION

In this emerging global of computers, nearly all-guide system has switched to automated and computerized gadget. So this undertaking will help customers to determine vacant boggies in teach the use of automatic manner. This App will make passenger adventure a HAPPY JOURNEY

REFERENCES

- [1] <https://www.Rssb.Co.united kingdom/rgs/standards/RIS-3703-TOM Iss 2.Pdf>
- [2] <http://www.Rdso.Indianrailways.Gov.In/works/uploads/File/Handbook on Fire Causes & preventive Measures in Railway Co aches. Pdf>
- [3] <http://moud.Gov.In/upload/uploadfiles/documents/Report 5 Signalling and Train Control Systems. Pdf>



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