Soundless Traffic System

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project/internship titled **"Soundless Traffic System"**, submitted by A.S.M. Mahadi Rumman, ID No: 141-15-3400 and Bakul Saha ID No: 141-15-3413 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on June 2021.

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DECLARATION

We hereby that, this project has been done by us under the supervision of **Nusrat Jahan, Senior Lecturer, Department of Computer Science and Engineering** Daffodil International University Dhaka, Bangladesh. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.
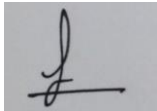
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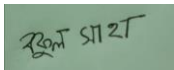
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ABSTRACT

Technologies have placed a right and a hit signature on our residing environment.Technology contributes to each issue of our every day lives today. Today, generation is only a layer in each layer of life.We desire that with this invention of our tool we are able to eliminate the hoarse sound of the horn as a reason of fatigue in our stroll via its right use.

 The most effective and most effective requirement for that is the vigilance of all of us.Because the complete tool will ship our sign most effective via mild with out sound.

That is why warning is maximum crucial for me to apply this tool.We desire that the tool will play an crucial position in our environment.

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CHAPTER ONE

INTRODUCTION

1. INTRODUCTION

This mission objectives at making site visitors manipulate device clever in phrases of creating selections primarily based totally on actual time site visitors situation. These selections must be such that the traditional lights device of turning red, inexperienced or amber could be primarily based totally at the modern extent of vehicles at the driveway, as towards the use of mere timing circuits to modify vehicular site visitors with out recourse to what the site visitors seems like in all guidelines.

The following are the primary targets of the mission:

- To check out the opportunity of designing a simple, sturdy computerized actual-time site visitors manipulate device the use of low-fee digital additives with a view to effortlessly be adaptable to the existing site visitors situations on the junctions, with minimum bodily modifications in the intersection.

- To check out the opportunity of imparting short clearance to vehicular and pedestrian site visitors in all guidelines at a junction.

- To check out the workability and accuracy of digital additives.

- To reduce the pressure of the site visitors warder.

- To check out the diploma and quantity of usefulness of the mission.

- To provide sensible answer that may be progressed upon in future.

1.2 Objectives

The primary assignment is to computerize all of the info associated with the manager and the assignment report.

The caretakers special listing is decided with the aid of using deciding on their time, distance, region and direction.

Both the pedestrian and the motive force can be capin a position to stroll competently with the assist of those sensors primarily based totally on the suitable facts.Projects run with the aid of using sensors have to offer well timed timing for development.

The vehicles want to maintain the facts updated and maintain a document of them.It is assumed, on this project, that each one cars transferring thru the manage machine are without difficulty identifiable and with no trouble distinguishable the use of a few customized means, in order that information captured from distinct cars can be looked after and automobile monitoring can be viable. Single lane visitors is utilized in modeling.Besides enhancing on the prevailing visitors manage machine and its performance in controlling visitors, it's miles predicted that this paintings contributes immensely in enhancing logistics all through emergency reaction and as properly lowering unnecessary delays in commercial enterprise transactions. Other expectancies are that:

- It will assist in lowering the incidence of viable collision or twist of fate and thereby enhance the self belief of the motive force and the pedestrian the use of the highways.

- It will allay the concern of time wastage on the junctions due to instructions of visitors machine since the machine is able to operating for 24hours uninterrupted thereby,Assured regular availability of visitors manage service.

- It will help in emergency reaction and short clearance of special-responsibility cars

- It will lessen human efforts and energy.

1.3 Motivation

The important aim of our challenge is to offer an software primarily based totally at the tracking machine. It is

Pedestrians might be capable of attain their vacation spot in a well timed and secure way with none noise pollution.

Provides super safety of data at each level

Provides consumer machine interplay and dependable garage and backup facilities.

We agree with that if this procedure is used properly, someday it will likely be viable to store now no longer simplest our u . s . however the complete global from noise pollution.

1.4 Expected Outcomes:
People spend greater in their valuable time commuting to work, school, shopping, and social occasion in addition to handling site visitors light. Ambulance and emergency reaction automobiles (police, hearthplace service, etc) are trapped withinside the midst of horrific

logjams. On primary roads, site visitors is continually heavy in all instructions whether or not before, throughout or after operating hours.At that point while a few automobiles push there

horn,its realy very hearmful to different. Even while these different options are to be had and usable, vehicular transportation will continually be essential someplace alongside the line.

When a automobile is going after a site visitors jam, it deer for no reason, that is worrying to us maximum of the time. The element to look for in a soundless site visitors device is that after a automobile caps off the deer, a red mild will flash on the automobile in the front and imply how a ways the automobile is, if it is inside 20 yards of the device. Traffic congestion troubles It is higher to create new manipulate structures; A clever and smart manipulate Method. An smart site visitors mild device detects the presence or absence of vehicles and Responded accordingly. The concept in the back of an smart site visitors device is that drivers will now no longer spend Unnecessary time expecting site visitors lighting fixtures to change. Detects an smart site visitors device Traffic in extraordinary approaches.With all of the technological implementations,site visitors congestion has now no longer been absolutely nipped in the bud and that is obvious in the lengthy ubiquitous queues and site visitors jams that greet us daily on our approaches to (and from) work.Though numerous site visitors manipulate structures were invented over the years, the want to make those controls clever can not be over- emphasised.

1.5 Report Layout:

In this challenge a complete evaluate of our gadget and associated paintings and terminologies are given gradually. We currently made a survey in this comparable paintings and attempt to what's greater scope to increase this current challenge. In chapter 2 we describe the demanding situations and going through hassle that is make tough to us. Another chapter three we describe the 3 level of background.We additionally describe the requirement specification and attempt to reveal customers demand. In, chapter four and five we reveal how we clear up the hassle and what we use to put into effect the challenge.Finally, in chapter 6 we commentary a few concluding and recommendations for destiny works.

CHAPTER TWO

LITERATURE REVIEW AND PROPOSED METHODOLOGY

2.1 Preliminaries/Terminologies

The studies attempt withinside the site visitors engineering have a look at reaches a bend managed via way of means of site visitors lighting fixtures and creates rows in numerous studies efforts designed to assess exceptional strategies. The width of the street and the duration of rows together with the range of cars and the predicted site visitors mild performance withinside the predicted row version at positive instances of the day, but Was. The set of rules combines pace detection and car detection operations to deliver out the rims of the scene to reduce the results of variant withinside the illuminated state. Where predictive / responsive control is unlawful from responding to explosive modifications in second-tier site visitors patterns.

This model has come to be a mixture of a couple of excursion spot routing and light-weight manipulation of real-time site visitors to start with going to person locations primarily based totally absolutely on a unmarried concept. The concept that virtual viewer signs are predicted complements the mild system of traditional visitors in the location of destiny clever delivery because it expands the possibility to live with out troubles visible at the system. Their artwork deliver a simple virtual viewer protocol shape and its spinoff signals, a dependable protocol for the intersection site visitors indicator and a prevent sign sign. Here, if a vehicle offers a hallmark to the car in the front of it, the crimson mild will flash on the auto in the front, while it's miles on the intersection, it's miles going to turn blue. Driver. These protocols permit to differentiate precise commands even after capability confusion because of the mirrored image of the receiving motors. And the wish for the motive force is that he could be capable of see how some distance the rear vehicle / sign vehicle is. And he can also be capable of realize while it'll come. Previous analyzes of the manipulator system on this assignment of contemporary visitors have proved that for the time being the pictures might be culturally controlled with the assist of IoT use, as it's miles absolutely managed via way of means of software program so they're unfastened from issues and they could cancel their responsibilities. , There isn't anyt any powerful clever tourist system that works 24 hours a day (day and night) correctly controls the signal at those busy intersections. For the ones who've carried out this IoT-powered assignment with the maximum caution, which include the signal of the spectator, otherwise an coincidence can also additionally occur. Short excursion routes will now no longer in reality be green on a ordinary foundation with the presence of cars requiring mild cycles. However it's miles going to rely upon the flip because of preceding facts of the drift fashion in order that the signal cycle may be designed throughout virtual digicum or sensor set up and intersection. Based on the prevailing visitors

manipulate machine, the subsequent assumptions have been made in order to increase a possible machine:

1. The gadget ought to perform at an intersecting 4-manner junction with single-lane visitors from the 4 primary aspects.

2. If the visitors is reversed from the front to returned and vice versa on the identical time, in that case, the sensor will manipulate it, what to ship in the front.

3. Turns (proper and left) will be taken into consideration withinside the design4. Traffic coming from the west lane usually has the proper of manner and the west-east lane is considered as fundamental visitors .

2.2 Related works

A lot of labor has been performed to manipulate the visitors and there is lots of verbal exchange cloth to speak with. However, now no longer plenty has been performed to alternate the horn gadget to save you noise pollution.

We desire that if our mission is accepted, then the ones instances could be cushty for pedestrians and all of us at the facet of the road. From the hoarse sound of the horn.

. So, we are hoping this platform will carry a humorousness for all of us.

2.3 BACKGROUND STUDY:

Soundless Transport Systems and Services will be described as the mixing of information and communications era with shipping infrastructure, cars and users.The growth in urbanisation and site visitors congestion create an pressing want to function our transportation structures with maximum efficiency. Real-time site visitors sign manage is an integral a part of present day Urban Traffic Control Systems aimed toward attaining highest quality utilisation of the street community. Providing powerful actual time visitors sign manipulate for a complicated visitors community will be tough.Signal device operation is similarly complex through the latest fashion that perspectives visitors sign device as a small factor of an included multimodal transportation System. Optimisation of visitors alerts and different manipulate gadgets for the green movement of visitors on streets and highways constitutes a tough a part of the superior visitors control device of smart transportation device.For a large-scale visitors control device, it is able to be hard to evaluate the country of visitors community and to tell whether or not it's far flowing smoothly. Over the beyond few years, multi-agent structures have end up a vital era for successfully exploiting the growing availability of diverse, heterogeneous and disbursed statistics

sources. Researchers over the years have followed severa techniques and used diverse gear to put

 into effect multi-agent structures for his or her problem domains. As researchers benefit a higher information of those self sustaining multi-agent structures, extra capabilities are integrated into

them to beautify their performance and the improved structures can then be used for extra complicated utility domains.Intelligent software agent is an self sustaining laptop program, which interacts with and assists an stop person in positive laptop associated tasks. In any agent, there's continually a positive stage of intelligence. The stage of the Intelligence ought to range from pre-decided roles and obligations to a learning entity. Multi-Agent System is the mixture of agents, whose item is to decompose the huge gadget to numerous small structures which talk and coordinate with each different and may he prolonged easily. Agent-primarily based totally simulations are models in which a couple of entities feel and stochastically reply to situations of their local environments, mimicking complicated huge scale gadget behavior. The city visitors gadget is a great deal complicated gadget,which worried many entities and the connection amongst them are complicated.Therefore, the maximum essential problems for a learner agent is the evaluation of the behavior and the intelligence degree of the alternative agents. By sharing essential facts, Soundless Traffic System permits human beings to get extra from delivery networks, with extra protection and with less effect on the environment. Intelligent Traffic System enables the complete delivery gadget to paintings maximum successfully and efficiently. Intelligent Traffic System integrates users, delivery structures, and motors via modern-day facts and communications technologies.Intelligent Traffic System regularly works in the back of the scenes. Emergency motors can get to a crash webweb page extra rapidly than earlier than with Intelligent Traffic System detecting the crash, notifying emergency services, and getting the closest reaction unit to reply.

2.3.1 SYNERGIES:

This venture is intently associated with numerous studies works on shrewd delivery systems (ITS) and site visitors economy. It will use present site visitors manipulate infrastructure and lighting System, further to an enter and common sense block so as to be introduced. The complete concept is Configure the modern site visitors manipulate device with a remarks network, it creates Intelligent and smart. And optimistically this soundless site visitors device will defend us from noise pollution.

2.4 Scope of the problem:

The essential aim of our task is to offer an internet primarily based totally tracking system.

This might be a mailbox for the society. Through this, humans from all walks of lifestyles might be free of the hoarse sound of the horn. Through its right use. But there are a few troubles in everything. And we've got already mentioned them withinside the preceding factor of this chapter.

2.5 Challenge:

The assignment of the supervision technique is to offer a safe, supportive possibility for it Raise problems, discover problems, and Discover new approaches to address each the scenario and a self. There is a vital thing to this, we must paintings to triumph over it, and we've mentioned the ones problems in different factors of this chapter.

CHAPTER THREE

PROJECT SCOPE AND LIMITATION

3.1 Requirement Collection and Analysis

The design will shed light on adding smartness and intelligence to conventional traffic control systems at the laboratory modeling stage. Indicates conventional traffic control systems each light passes a vehicle in a lane at a specified time interval and stops the vehicle other alley lighting is divided into three (3) sections (Red, Blue and Green). It is informed what should be done at a certain time in each lane, where the red stop is marked, ready,and green indicates GO. Each light is designed to turn itself on and off whenever needed time elapsed off. Improving this design will decide (Judgment) How to control traffic without using timer circuit alone.Increased demand for roads, parking spaces and computerized upgrades traffic control system. This project will be limited to laboratory stage modeling only.Since it will take a lot of time to investigate the traffic routines at various junctions, combined with the challenges of power outages and funds will be used in several designs to estimate the concept.While performing this project, a lot of time will be needed to investigate traffic routines current data from different junction main roads is required. CCTV and some high focusing traffic lights will be installed where cameras are required at every turn. Moreover,The future impact of this project is a major consideration.

3.1 RISK FACTORS:

There are inherent dangers in nearly each component of engineering projects. As such,this project will screen people concerned in a number of the dangers, from medium to high-stage risk,depending on the character and region of the paintings. For example, putting in cameras and different accent manipulate systems includes paintings with height.Potential dangers of acrophobia (horrible worry for heights) and coffee nice mountain climbing equipment.Trained humans and good enough manpower, collectively with proper lifting equipment required for this operation.During lengthy paintings hours, fatigue and from encouraging neighborhood visitors facts from the Internet The Federal Road Safety Corporation (FRSC), to monitor visitors float in positive areas,There are a few dangers, along with digital suppression, misuse of digital components also consequences from the project. Weather and different environmental elements can be concerned as nicely because the supply of the damage.Activities will consequently be deliberate and achieved in such a manner as to take away or lessen them disaster impact.
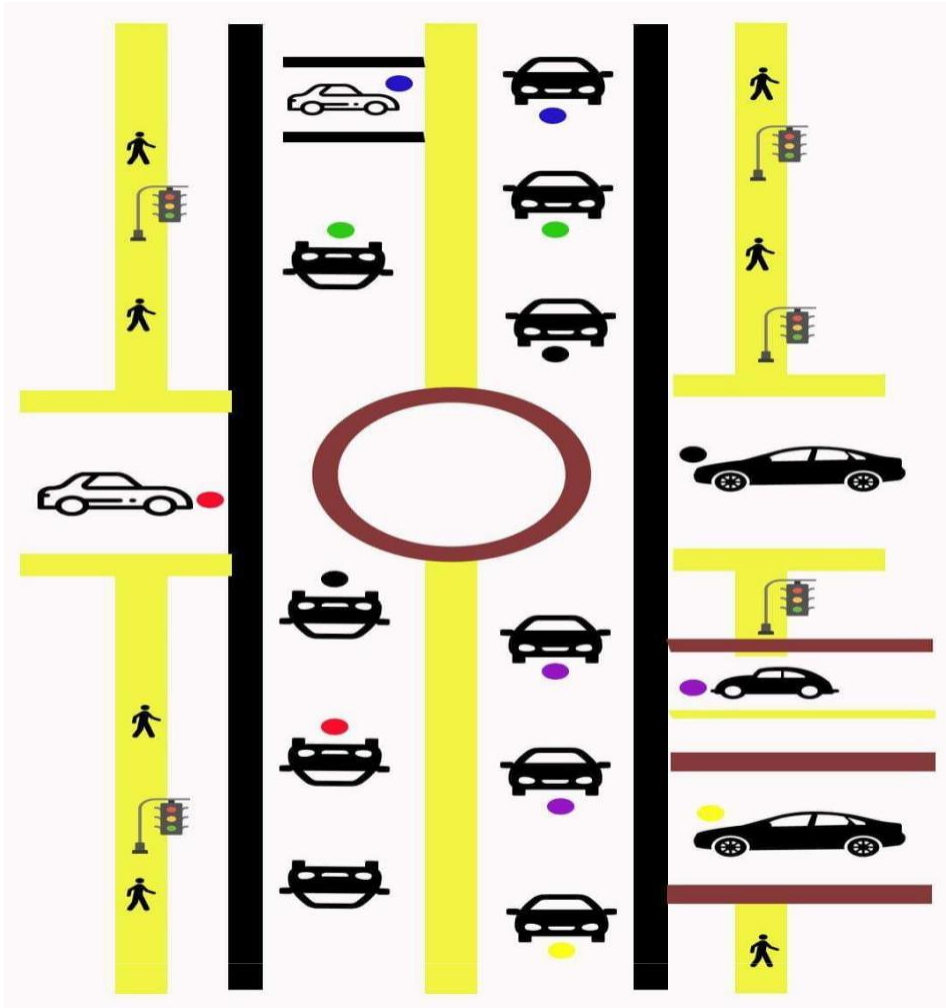
3.3 Design Requirement:

Figure 3.1: Design Requirement

CHAPTER FOUR

ECONOMIC IMPORTANCE

Information generation (IT) has converted many industries and it's far now reworking the transportation device. Although many suppose that the shipping device of a rustic ought to be progressed alone that method constructing new roads or repairing aging infrastructure, the destiny of transportation lies not simply concrete and steel, IT is an increasing number of being used.Material in transportation structures consisting of vehicles, roads, site visitors lights, message signs, etc. are becoming Intelligent aleven though makes use of microchips and sensors and enables their communication with every different via wi-fi generation. This paintings tries to clear up the problems road pollutants in towns may be decreased via an clever layout and application. Through a soundless site visitors device.In the case of noise pollutants in distinctive elements of the world, which includes our country, this challenge is predicted to be massive in size.Restrictions will save you site visitors jams as a way to deliver us a drastic change.As time waits, we, our destiny generations, can be saved from the palms of folks who most effective sound the horn at the roads.However, this generation can be simpler to put into effect if the authorities considers mounting cameras and sensors on foremost roads and junctions.May be non-public investors surveillance cameras are obligatory for series and mounting in strategic locations. These Cameras/sensors may be used as inputs for site visitors control structures.

4.1 What is the function of Economics in mission management

Economics of Project Management performs a completely crucial function withinside the withinside the a success implementation of the proposal.The evaluation is the technology of making use of monetary standards to pick exchange engineering designs or proposals.

4.2 What is the aim of Economic Analysis

In the study, the task is considered in an engineering sense. The ultimate aim of the monetary assessment is to provide a decision-making tool which can be used now not only for the pilot task but moreover for demonstration purposes.

4.3 What is the aim of financial assessment

The important aim of the financial assessment of a challenge is to provide managers greater statistics to help their decision. Therefore, the facts are prepared into one dice of technical coefficients, one rectangle of accounting coefficients and one rectangle of variables of activities

4.4 How are gift monetary research utilized in production

Important programs of gift monetary research in production are The break-even evaluation is a graphical illustration which suggests the version of fees for one-of-a-kind procedures to attain the equal objective. The evaluation may be hired withinside the choice a few of the alternatives. Cash float is the motion of cash into or out the company.

CHAPTER FIVE

DEFINITION OF TERMS

The Arduino UNO R3 is regularly used microcontroller board withinside the own circle of relatives of an Arduino. This is the brand new 1/3 model of an Arduino board and launched withinside the 12 months 2011. The predominant benefit of this board is that if we make a mistake we will alternate the microcontroller at the board. The predominant functions of this board specifically include, it's miles to be had in DIP (dual-inline-package), removable and ATmega328 microcontroller. The programming of this board can without difficulty be loaded via way of means of the usage of an Arduino computer program. This board has massive assist from the Arduino community, which will make a completely easy manner to begin operating in embedded electronics, and lots of more applications.

Figure 5.1: Arduino UNO R3

One 4-Volt Lithium-Ion battery is equal to 3AA cells.This battery has a longer term time to offer an extended use time. The TEK4 4-Volt Lithium-Ion Battery Pack consists of a 2-yr producers guarantee and an operators manual. RYOBI introduces the TEK4 4-Volt Lithium-Ion Battery Pack.

Figure 5.2: 4-volt battery

In this project we used 2 piece of 4-volt battery.

A community transfer connects gadgets in a community to every other, and lets in them to 'talk' via way of means of replacing records packets. Switches may be hardware gadgets that control bodily networks, as properly as software-primarily based totally digital gadgets.digital gadgets.

Figure5.3: switch

Proximity sensor. A proximity sensor is a sensor capin a position to discover the presence of close by gadgets with none bodily contact. A proximity sensor frequently emits an electromagnetic discipline or a beam of electromagnetic radiation (infrared, for instance), and appears for adjustments withinside the discipline or go back signal. Here used 4 piece proximity sensor.

Figure 5.4: proximity sensor

Turning the LDA machine on Press the "LDA" transfer to activate the machine. Lda indicator will come on. Press the transfer once more to show the LDA machine off. The LDA machine will stay on or off despite the fact that the engine transfer is became to the "on" position (automobiles with out a clever key machine) or ignition on mode (automobiles with a clever key machine). Here used 1 piece LDA sensor.

Figure 5.5: LDA sensor

Here used 12 pieces of resistance 220h

Figure5.6: resistance 220h

If cells are the constructing blocks of life, transistors are the constructing blocks of the virtual revolution. Without transistors, the technological wonders you operate each day - mobileular phones, computers, cars - might be vastly different, in the event that they existed at all.

Figure 5.7: bc/c 454 transistor

Five exclusive bodily sizes of resistors are used on this board. The bodily length is associated with the quantity of electricity every resistor can dissipate. Each resistor is likewise to be had is various tolerance values. This is the degree of ways near the resistor is to its said value.Here we used 150k resistor.

Figure5.8: 150k resistor

Here we used 224pf

Figure5.9:224pf

Here we also used 150 Ohm Resistor.

Figure5.10: 150 Ohm Resistor

We also used dc jack to connect.

Figure5.11: dc jack

Here used Red White Blue LED Lights

Figure5.12: Red White Blue LED Lights

This is my project video. The video may be considered via way of means of scanning the QR code.

Project code:

```
int led1=7;

int led2=6;

int led3=5;

int led4=0;

int ir1=4;

int ir2=3;

int ir3=2;

int ir4=1;

void off()

{

  digitalWrite(led4,LOW);

  digitalWrite(led1,LOW);

  digitalWrite(led2,LOW);

  digitalWrite(led3,LOW);

}

void setup()

{

  pinMode(led4,OUTPUT);

  pinMode(ir4,INPUT);

  pinMode(led1,OUTPUT);

  pinMode(led2,OUTPUT);

  pinMode(led3,OUTPUT);

  pinMode(ir1,INPUT);

  pinMode(ir2,INPUT);
```

```
pinMode(ir3,INPUT);

 digitalWrite(led4,LOW);

 digitalWrite(led1,LOW);

 digitalWrite(led2,LOW);

 digitalWrite(led3,LOW);

}

void loop()

{

 int ir1val=digitalRead(ir1);

 int ir2val=digitalRead(ir2);

 int ir3val=digitalRead(ir3);

 int ir4val=digitalRead(ir4);


if((ir1val==LOW)&&(ir2val==LOW)&&(ir3val==LOW)&&(ir4val==LOW))

  {

   void off();


 digitalWrite(led4,HIGH);

  digitalWrite(led1,HIGH);

  digitalWrite(led2,HIGH);

  digitalWrite(led3,HIGH);

  delay(500);

   }

else if((ir1val==LOW)&&(ir2val==LOW)&&(ir3val==LOW))

  {

   void off();
```

```
digitalWrite(led4,LOW);
digitalWrite(led1,HIGH);
digitalWrite(led2,HIGH);
digitalWrite(led3,HIGH);
delay(500);
  }

else if((ir2val==LOW)&&(ir3val==LOW)&&(ir4val==LOW))
  {
  void off();

digitalWrite(led4,HIGH);
digitalWrite(led1,LOW);
digitalWrite(led2,HIGH);
digitalWrite(led3,HIGH);
delay(500);
  }

else if((ir3val==LOW)&&(ir4val==LOW)&&(ir1val==LOW))
  {
  void off();

digitalWrite(led4,HIGH);
digitalWrite(led1,HIGH);
digitalWrite(led2,LOW);
```

```
digitalWrite(led3,HIGH);
 delay(500);
  }
  else if((ir4val==LOW)&&(ir1val==LOW)&&(ir2val==LOW))
  {
  void off();

 digitalWrite(led4,HIGH);
 digitalWrite(led1,HIGH);
 digitalWrite(led2,HIGH);
 digitalWrite(led3,LOW);
 delay(500);
  }
  else if((ir3val==LOW)&&(ir4val==LOW)&&(ir1val==LOW))
  {
  void off();

 digitalWrite(led4,HIGH);
 digitalWrite(led1,HIGH);
 digitalWrite(led2,LOW);
 digitalWrite(led3,HIGH);
 delay(500);
  }


 else if((ir1val==LOW)&&(ir2val==LOW))
```

```
{
  void off();


digitalWrite(led4,LOW);
digitalWrite(led1,HIGH);
digitalWrite(led2,HIGH);
digitalWrite(led3,LOW);
delay(500);
  }
 else if((ir1val==LOW)&&(ir3val==LOW))
{
  void off();


digitalWrite(led4,LOW);
digitalWrite(led1,HIGH);
digitalWrite(led2,LOW);


digitalWrite(led3,HIGH);
delay(500);
  }
else if((ir1val==LOW)&&(ir4val==LOW))
 {
  void off();


digitalWrite(led4,HIGH);
digitalWrite(led1,HIGH);
```

```
  digitalWrite(led2,LOW);

 digitalWrite(led3,LOW);

 delay(500);

   }

  else if((ir2val==LOW)&&(ir3val==LOW))

 {

  void off();


 digitalWrite(led4,LOW);

 digitalWrite(led1,LOW);

 digitalWrite(led2,HIGH);

 digitalWrite(led3,HIGH);

 delay(500);

   }

  else if((ir2val==LOW)&&(ir4val==LOW))


{

   void off();


 digitalWrite(led4,HIGH);

 digitalWrite(led1,LOW);

 digitalWrite(led2,HIGH);

 digitalWrite(led3,LOW);

 delay(500);

   }

 else if((ir3val==LOW)&&(ir4val==LOW))
```

```
 {

  void off();


 digitalWrite(led4,HIGH);

 digitalWrite(led1,LOW);

 digitalWrite(led2,LOW);

 digitalWrite(led3,HIGH);

 delay(500);

  }

  else if(ir1val==LOW)

 {

  void off();


 digitalWrite(led4,LOW);

 digitalWrite(led1,HIGH);

 digitalWrite(led2,LOW);

 digitalWrite(led3,LOW);

 delay(500);

  }

  else if(ir2val==LOW)

 {

  void off();


 digitalWrite(led4,LOW);

 digitalWrite(led1,LOW);
```

```
digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

delay(500);

}

else if(ir3val==LOW)

{

void off();


digitalWrite(led4,LOW);

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

delay(500);

}

else if(ir4val==LOW)

{

void off();


digitalWrite(led4,HIGH);

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

delay(500);

}

else

{
```

```
  digitalWrite(led4,LOW);
  digitalWrite(led1,LOW);
  digitalWrite(led2,LOW);
  digitalWrite(led3,LOW);
   delay(500);
  }

}
```

CHAPTER SIX
CONCLUSION AND REFERENCES:

Conclusion:

Intelligent visitors structures will assist all tourists get wherein they want to move on time, properly and guard us from noise pollutants no matter age or incapacity and anyplace they are. Intelligent visitors structures will offer higher statistics for the offerings to be had to tourists.We don't forget that the e-supervision device might be incorporated to support, support, serve.We consider that e-tracking structures lessen time, cost, attempt and possibilities.Needed in supervision processes. At the equal time we've get entry to to our middle exact performance.The cause of this study. The e-tracking device achieves pretty an awesome communication, lots of generation and facilities. We can say that this generation will be the start of a brand new era.

REFERENCES:

I have not received any reference from online to do this project. However, I have seen all the work done on the traffic system. I did the whole thing on my own, directly under the active invitation of my project supervisor Madam.

1.(DOC) Density Based Traffic Light Control System project report | sunil kumar - Academia.edu

2.https://www.bing.com/search?q=soundless+traffic+system+project+report+pdf&cvid=ec1f92e fd40c416b9f86a10aa3fb141b&aqs=edge.0.0l3j69i57j69i60l3.5127j0j1&pglt=297&FORM=AN NTA1&PC=U531

3.https://www.bing.com/search?q=soundless+traffic+system+project+report+pdf&cvid=ec1f92e fd40c416b9f86a10aa3fb141b&aqs=edge.0.0l3j69i57j69i60l3.5127j0j1&pglt=297&FORM=AN NTA1&PC=U531

These are the ones I saw before I started my work. These are just about the traffic system, but not about the soundlance traffic system. I think and saw that my project is completely new, I could not find such a project.

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