TRAFFIC MANAGEMENT SYSTEM

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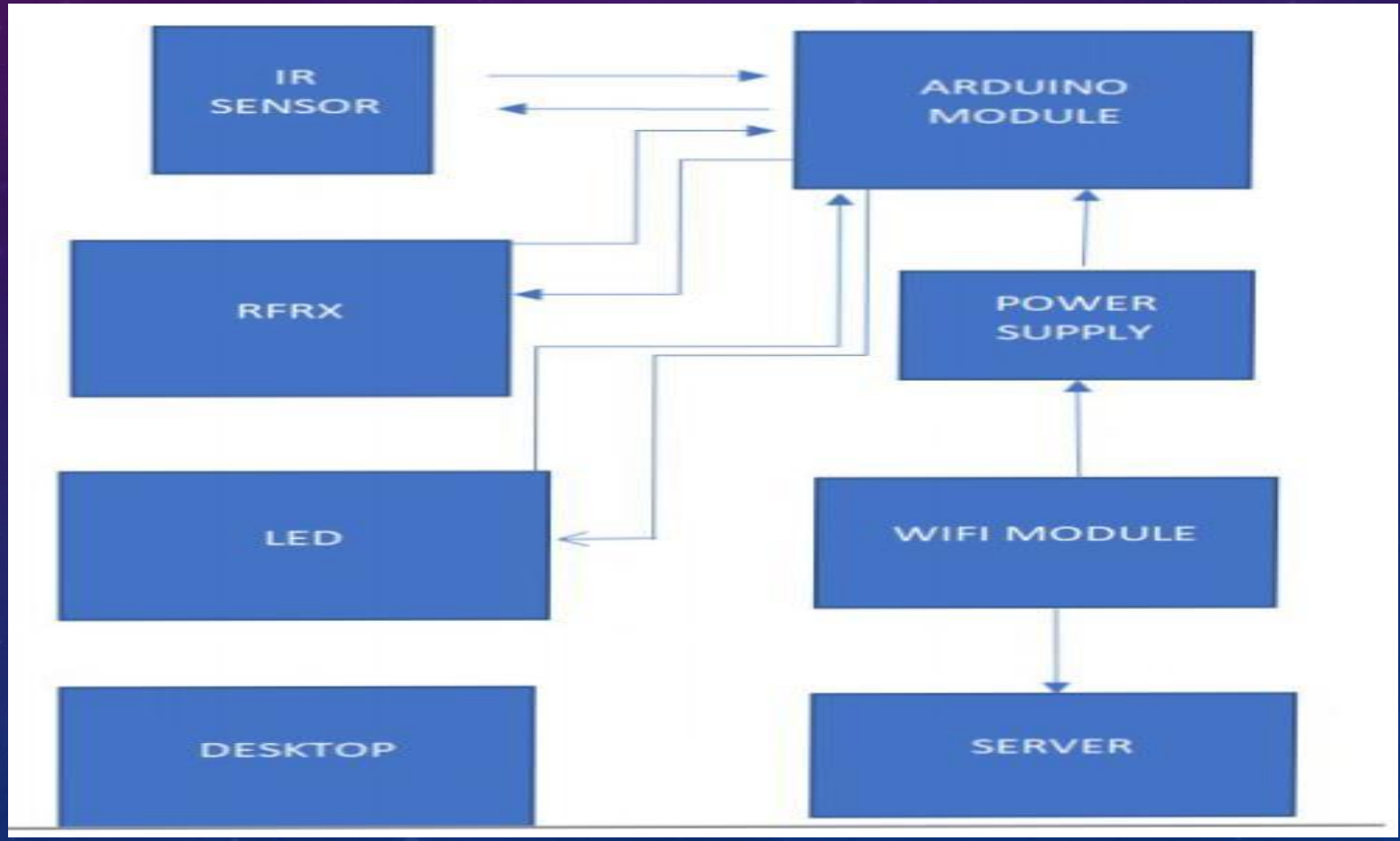
ABSTRACT

- Traffic management system is one of the major proportions of a smart city.
- With the rapid growth of proportions and rapid increase of vehicles across the whole country which further leads to the traffic congestion which is usually seen on roads.
- Nowadays traffic congestion is a difficult issue to deal with as number of vehicles is increasing day by day.
- A simple, effective and less costly method is used to optimize traffic flow on roads and an algorithm is devised to manage various traffic situations efficiently and automatically.

INTRODUCTION

- Traffic congestion on road networks creates many problems such as increased fuel consumption, increase air pollution, increased queuing of the vehicles and many more.
- In every cities of India traffic congestion is a major problem which we are facing nowadays.
- There are also even a severe many security problems in traffic system in our country due to many elements which also leads to the congestion of traffic at one place.
- India is the 2nd most populated country after China in the world, this with increase in population, the number of vehicles also increasing day by day.
- The economic growth has certainly had an impact on country traffic.

BLOCK DIAGRAM



DESCRIPTION

ARDUINO NANO

- An 8 bit microchip AVR which is small, complete and bread board friendly board based on the Atmega328.
- It is the main CPU of our Project, in which we all the program will run.

POWER SUPPLY MODULE

- A power supply is a hardware component that provides power to any electrical device.

IR SENIOR

- These sensors are used to detect the object through infrared rays.
- These sensors are put sideways for giving us the density of vehicles in the specific lane.

WIFI MODULE

- It is used to give microcontroller access to your wife network.

RFRX MODULE

- It consists of RF receiver; it is used for transmitting and receiving data.

BLYNK APP

- It is a mobile application for output and verification for real time data collected.

THANKING YOU