

# Network Identifier and Monitoring

**Ms. Anjali Bhimashankar Choudhari<sup>1</sup>, Ms. Vaibhavi Somshekhar Kurle<sup>2</sup>,**

**Ms. Sakshi Shrinivas Nimbalkar<sup>3</sup>, Mrs. Sayali Sachin Talekar<sup>4</sup>**

Diploma Students, Department of Information Technology<sup>1,2,3</sup>

Lecturer, Department of Information Technology<sup>4</sup>

Shri Siddheshwar Women's Polytechnic, Solapur, India

anjalicoudhari2006@gmail.com, vaibhavikurle3@gmail.com

nimbalkarsakshi391@gmail.com, say.talekar@gmail.com

**Abstract:** *Network Monitoring Identifiers have become very important in the modern era. Before the 21st century, only a few networks and less than 100 networks could be monitored, but now there are devices that can access not only wired networks, but also wireless networks at speeds above 10Gbps. May add soon Network administrators are constantly trying to maintain the smooth operation of their networks, so we have come up with an idea that network connectivity monitoring and management will help make the administrator's job easier by knowing whether his computer is in the network or not. This idea of ours will help a lot*

**Keywords:** Rubberized Concrete, Sand Replacement (0 % ,5 % ,7.5 % ,10 %) Workability, Compressive Strength etc.

## I. INTRODUCTION

In today's world time is very important. Every one work on laptops, computer. This Internet is very important for every one because all things done using internet with various devices such as laptop, computer etc.

In network we are lost a lot of time for checking the pc's network is working correctly or not. So, we have created a web application for this. In network the administrator is not sure all pc's in network or not for troubleshooting they must go checking each PC that is working or not and it is a time-consuming process to check each single computer.

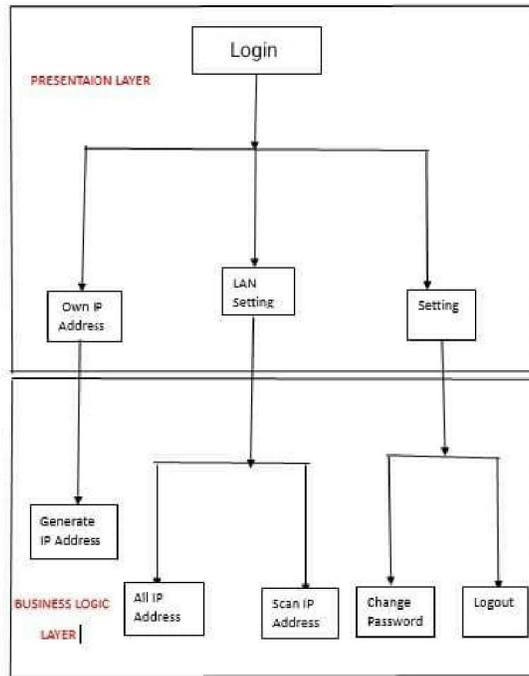
To overcome this drawback, we are developing a web application that will install on any standalone computer for the particular network to troubleshoot or monitor the network. If we use the idea of Network Identifier, we resolve the problems faster and it will be completed in less time. Using our application network administrator work faster and they save lots of energy for monitoring network physically on each computer. So that network administrator work will be completed in time.

## II. PROPOSED APPROACH

There are total 2 modules such as

- Presentation Layer
- Business Logic Layer

Nowadays the Network is the most important way to communication. That requires the identify and monitoring. The network identifier is to identify the all-IP address and its next process is the all-IP address monitoring the that particular ranges. The network monitoring is to collect the variety of switches, routers like servers. It is the collected data and analyzed to network problem. The network monitoring can be searching the how many systems can be connected and disconnecting the home page. We are show the three dropdown layers and show the Its Actually worked However. first, we can generate the own computer/laptop IP address then generated that class all IP address and then you can check out the IP list.

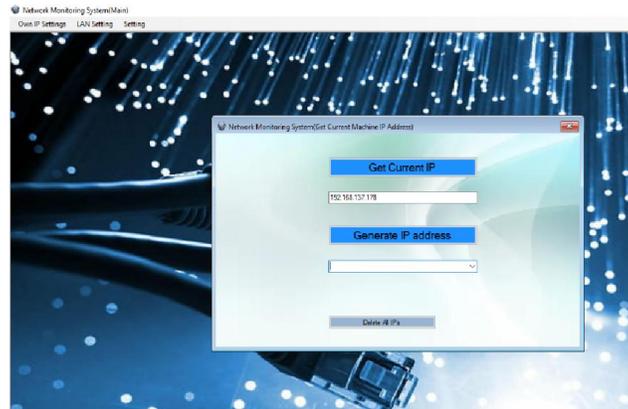


**Figure 1- System Design**

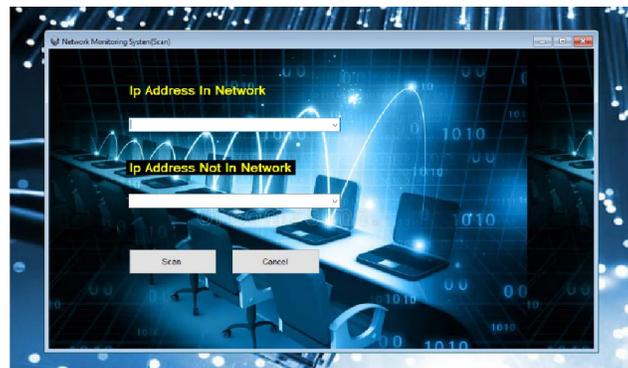
Nowadays network is the important part of the human being and the time is important that our work than our project is useful to the save time and importances of the respective work. The network monitoring is the purpose of the network traffic the big monitoring network traffic is the important for the keeping our network running is smoothly. The network identifier and monitoring can also help to identify the IP address with their IP address generated with their correct hostname. Our application also store ip address in database.we can use our application for colleges, office and any big network.



**Figure 2- Home page for user**



**Figure 3- IP Address generated**



**Figure 4- Scan IP Address**

#### **IV. CONCLUSION**

Networks are the backbone of modern communication, enabling us to connect with devices and information across the globe. However, these connections require proper identification and monitoring to function efficiently and securely. Network identifiers, such as IP addresses and MAC addresses, play a crucial role in enabling communication between devices. IP addresses act as unique numerical labels assigned to each device, while MAC addresses are hardware addresses that uniquely identify a device's network interface card. These identifiers ensure that data packets reach their intended recipients. Network monitoring is another critical aspect of network management. By observing and collecting data about a network's performance, availability, and security, network administrators can identify and address potential issues before they disrupt operations. Key aspects of network monitoring include traffic monitoring, which involves analyzing network traffic for suspicious or malicious activity, and performance monitoring, which involves tracking metrics like bandwidth usage and latency to identify bottlenecks and optimize network resources. In conclusion, network identifiers and monitoring are essential for maintaining a healthy and secure network environment. By understanding these concepts and implementing appropriate measures, we can ensure our networks function efficiently and securely.

#### **REFERENCES**

- [1]. [https://www.researchgate.net/publication/305957483\\_Network\\_Monitoring\\_Approaches\\_An\\_Overview](https://www.researchgate.net/publication/305957483_Network_Monitoring_Approaches_An_Overview)
- [2]. <https://www.sciencedirect.com/topics/computer-science/network-identifier>