

WEBDNC

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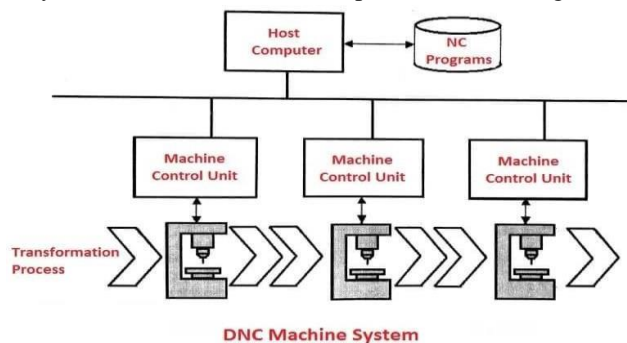
ABSTRACT

The development of CNC, communication and CIM technology, the connotation and functions of DNC have been greatly enlarged. In order to describe the features and development of contemporary DNC, a new concept, integrated DNC, is presented in this paper. The connotation of integrated DNC and other relative concepts are discussed. Four control architectures of integrated DNC are proposed, including bi-hierarchies, tri-hierarchies, quadric-hierarchies and across shops architectures. A case study of integrated DNC is introduced.

Keyword: HTML, CSS, JAVASCRIPT, C#, MYSQL.

1. INTRODUCTION

DNC stands for Direct Numerical Control. It Can be described as a various type of a manufacturing System. The multiple NC machine are remotely controlled from a host Computer as show in figure.



Direct numerical control (DNC) is defined “as a system that integrates multiple machines by direct connection through a central computer. The central computer is designed to provide instructions on demand to each machine tool. The central computer also retrieves data from machines. Therefore, there is two-way information is exchanged between the central computer and each of the machine tool.

2. OVERVIEW OF DNC MACHINE

A DNC is particularly described as “A system connecting a group of numerically controlled machines to memory for part program or machine program storage with provision for on-demand delivery of data to machines” by Electronic Industries Association (EIA).

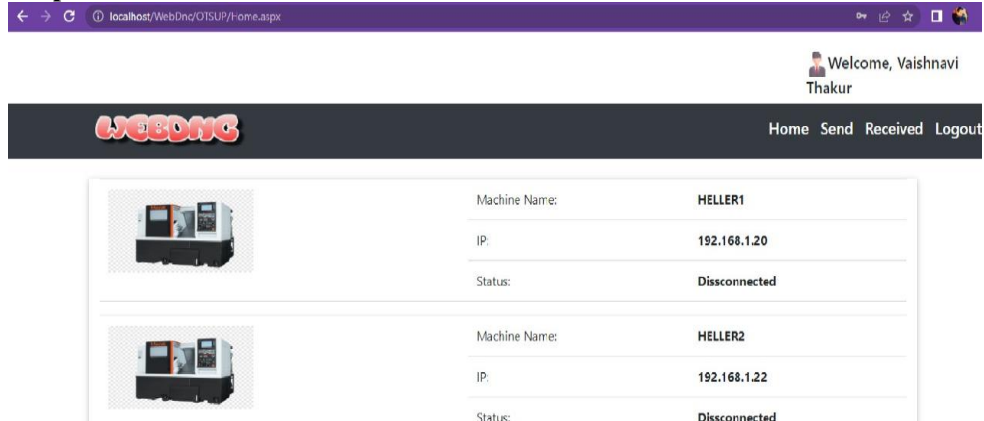


Fig:Direct Numerical Control

DNC systems are costly and preferably used in large organizations. The combination of DNC/CNC makes possible to eliminate the use of the programmer as the input media for CNC machines. DNC downloads computer programs directly into CNC computer memory. This decreases the amount of communication required between the central computer and each machine tool.

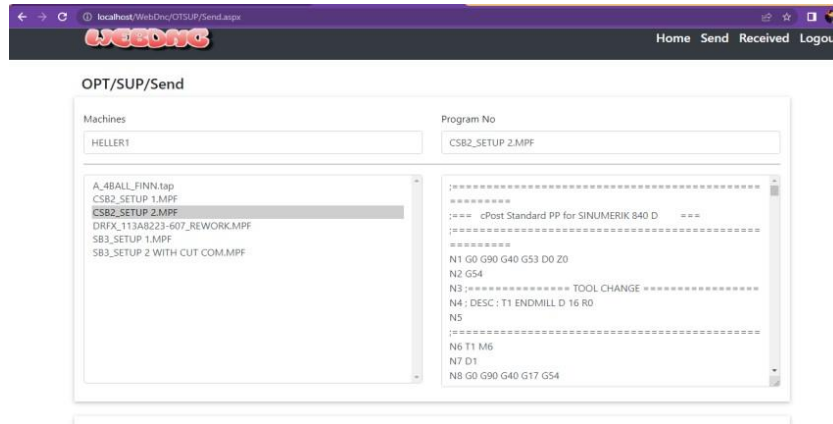
3. FUNCTIONS OF WEBDNC SYSTEM

3.1 Operator / Supervisor:



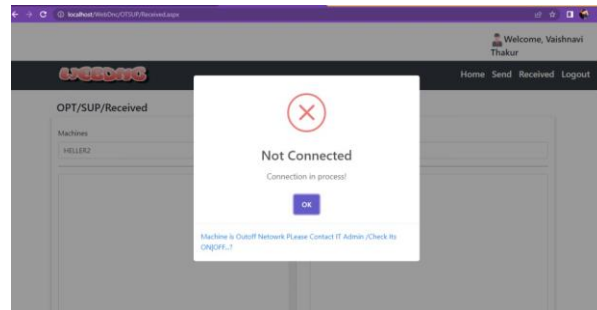
The above Module is showing the login window of Operator In which it shows what operations an operator can perform Also it shows information related to machines which belong to their department. In above slide Vaishnavi in an operator related with two machine heller1 and heller2 she can perform send and receive operation the machine related data she can send as well as receive from other.

3.2 Program Send



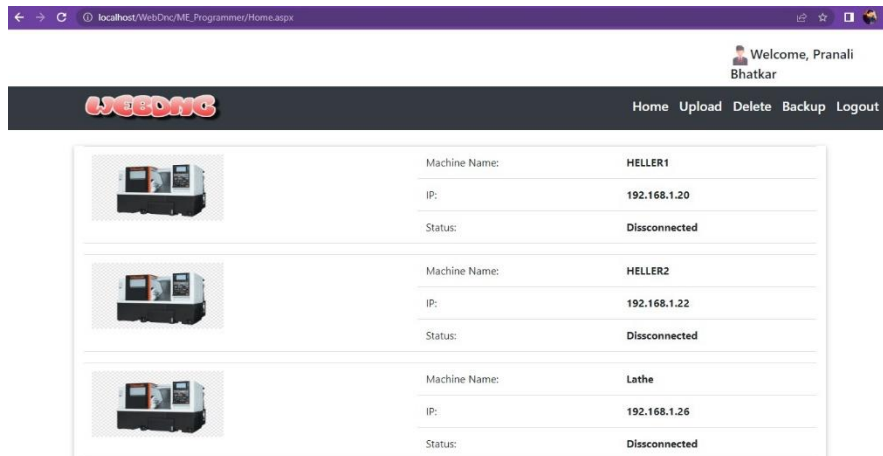
3.3. Program Received on machine

In this syste Should be connected to the System whom you are receiving program.



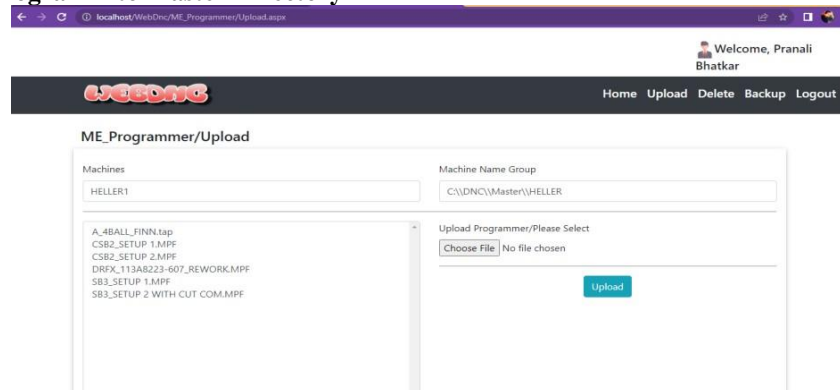
3.4 Programmer

A programmer can perform curd operation. i.e can delete program from master directory Upload new program into master directory. A programmer can control all machine information.

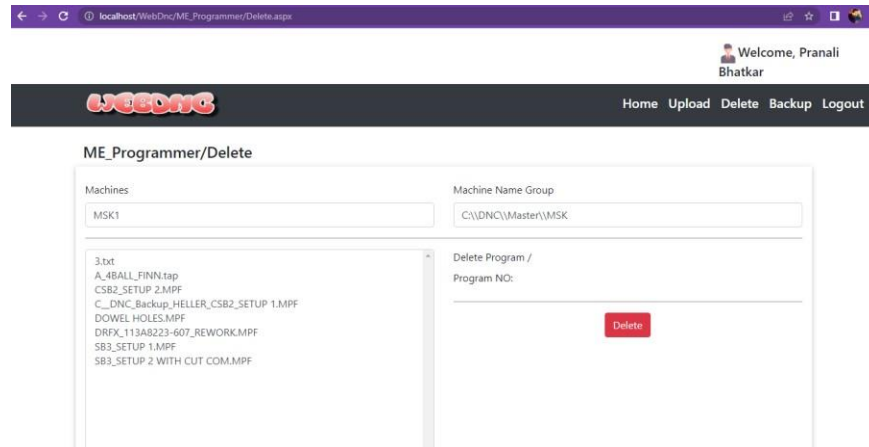


Here pranali bhatkar is a programmer. And can upload new programe into master directory, delete program frommaster directory.

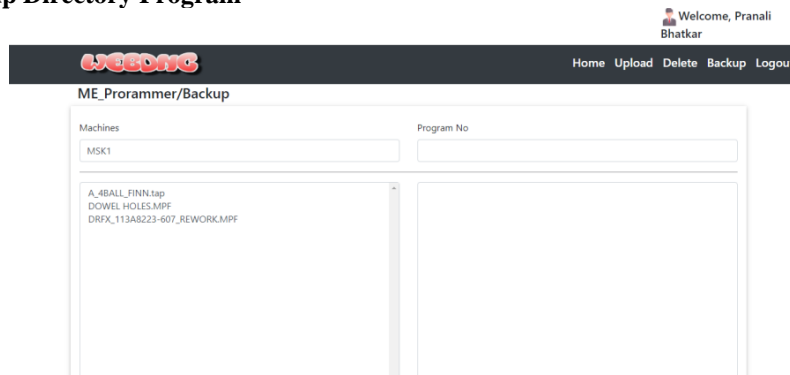
3.5 Upload New program into Master Directory



3.6 Delete Program from Master Directory

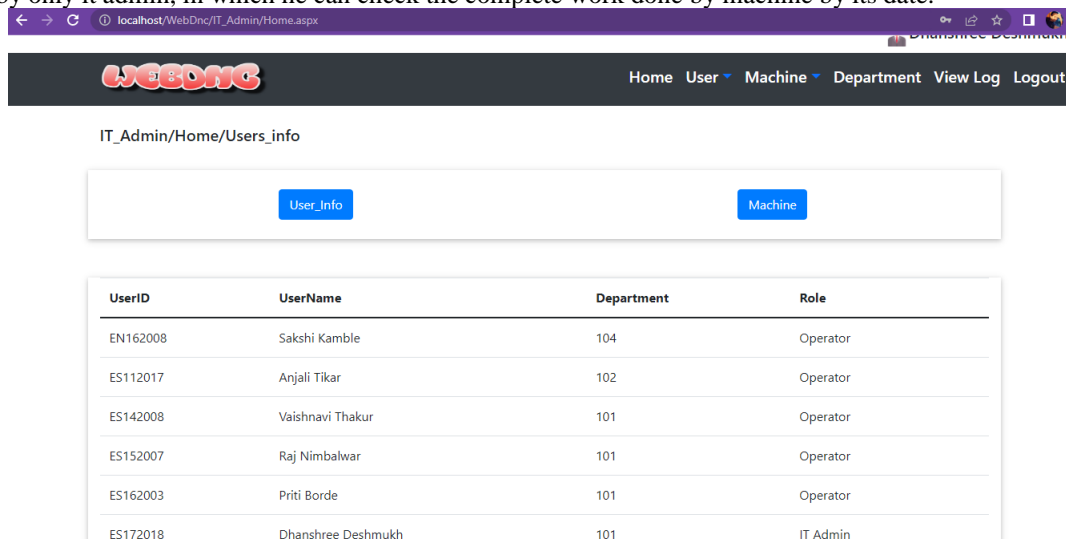


3.7 Download Backup Directory Program



3.8 IT-Admin:-

Only an IT admin have all the rights, an IT admin can add new user, delete existing user, and update user Also add new machine, update machine and delete machine the special operation it admin perform is he can add new department also an IT admin can see all the user (including himself) also all the machine Here view log is a special operation perform by only it admin, in which he can check the complete work done by machine by its date.



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machine by its date.

- **Add New User**
- **Update User**
- **Delete user**
- **Add machine**
- **Update machine**
- **Delete machine**
- **Add new Department**
- **Check Log**

3.9 Advantages of WEBDNC System

Following are the advantages of the WEBDNC system: The DNC is Time Consuming.WEBDNC Access over all networks In DNC multiple user access on same time Maintain master directory Provide tight level security Performance depends on User Role Generating Log for Machine Operation.

3.10 Disadvantages of DNC System

Disadvantages of the DNC system is DNC uses a central control user performance has depends on their role.DNC is expensive.

4. REFERENCES

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