

NETWORK INFORMATION SYSTEM

PROJECT REPORT P-955

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS
FOR THE AWARD OF THE DEGREE OF

M.Sc (APPLIED SCIENCE - COMPUTER TECHNOLOGY)

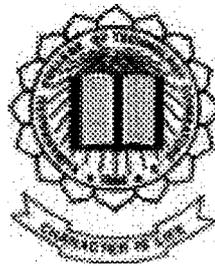
OF BHARATHIAR UNIVERSITY

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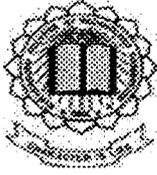
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(Affiliated to Bharathiar University)

Coimbatore – 641 006

APRIL 2003



KUMARAGURU COLLEGE OF TECHNOLOGY

**(Affiliated to Bharathiar University)
Department of Computer Science and Engineering**



Coimbatore – 641006

CERTIFICATE

This is to certify that the project work entitled

“NETWORK INFORMATION SYSTEM”

Done by

R.KOHILA

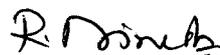
Reg. No – 0137Q0040

**Submitted in partial fulfillment of the requirement for the award of the degree of
M.Sc (Applied science - Computer Technology) of Bharathiar University.**


Professor and HOD


Internal Guide

Submitted to University Examination held on 10/05/03


Internal Examiner (10.5.03)
ap/csle/kck


External Examiner

DECLARATION

I here by declare that the project work entitled
“NETWORK INFORMATION SYSTEM”

Done at

**"NEW WALK TECHNOLOGIES"
COIMBATORE**

and submitted to

KUMARAGURU COLLEGE OF TECHNOLOGY
(Affiliated to Bharathiar University)

in partial fulfillment of the requirement for the award of the degree of

M.Sc (APPLIED SCIENCE - COMPUTER TECHNOLOGY)

is a report of work done by me during my period of study in
Kumaraguru College of Technology, Coimbatore – 641 006.

**Under the supervision of
Mr.K.R. BASKARAN, M.S.,**

Name of the candidate

Register Number

Kohila. P. J.
Signature of the candidate

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Date : 02/05/03 ,

Place: COIMBATORE .

Date : 10/5/03

CERTIFICATE

This is to certify that the project work entitled "Network Information System" was done by Ms.kohila.R (Reg No: 0137Q0040) studying in Kumaraguru College of Technology, Coimbatore in the area of ASP during the period of December 2002 – April 2003

We wish all the best to her in future endeavors.



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ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

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Finally I would like to thank my friends who supported me through all ups and downs of the project.

Company Profile :

Newwalk as the name suggests that, is looking and caring for the future of Academic professionals who are winged up to find their way in the today's world which is geared with opportunities, complexity and competition.

At Newwalk they build powerful solutions and comprehensive software solutions to the clients who are keen in using the technology. The solutions provided by them will help the professionals like Businessman, Corporate Business Managers, Strategic Planners and the academic professionals

Newwalk Technologies since its inception in 1999, has been specializing and customizing different application for the textile industries, jewel (Bankers) etc.

Services:

- Custom Built Solutions
- Web Enabling
- Technical Consulting
- Software Integration
- Software Product

In today's world, which is full of opportunities and complexities, automation has to rise above mundane. Mere crunching and data storage are not enough any longer. It has to rise to the top-level managements.

SYNOPSIS

This project is being done in “**NEWWALK TECHNOLOGIES**” . The purpose of developing this application is to maintain a centralized intranet inventory system. The help Desk team of the company provides enough service to their customers who basically use the software.

This system is divided into six modules

1.Customer Details

The Customer’s (Clients) will be the key person for the transaction that is taking in and around the company. The customer details are collected.

2.Inventory Details:

The inventory will play a vital role in the company’s total transactions. The inventory module will have complete track of the customer’s inventory.

3.Network Media Details:

The network media Details will hold the all the technical and management information of the client’s details.

4.Port Utilization Details:

The port utilization details will be used only for the EBI clients. EBI is nothing but a type of service.

5.Material Movement Details:

The material movement holds the details of the materials that are being supplied to the customer.

6.Technical Updates:

The technical updates is used to upload the Technical Documents, Network configuration, Network Diagrams to the Server and also simultaneously stored in the database.

**DEDICATED
TO MY BELOVED PARENT**

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INTRODUCTION

1.INTRODUCTION

1.1 PURPOSE

The purpose of developing this application is to maintain a centralized intranet inventory system. For the company this project is just a module of the expansion of a centralized Inventory system.

The help Desk team of the company provides enough service to their customers who basically uses the software. The input to the software will be given at different locations in the company.

The locations will be connected with intranet to maintain a centralized monitoring of data.

1.2 SCOPE

The software is supposed to

- ❖ Provide a safe transaction environment.
- ❖ Manage the centralized database system.
- ❖ Enable the users to tap the potential of the intranet inventory system.
- ❖ Adapt to changing environment and users.
- ❖ Making attempt of the magic of E-Commerce which has gained a lot of admirers in the present world.
- ❖ To implement refinements and improvements in the art of programming.

1.3 DEFINITIONS, ACRONYMS AND ABBREVIATIONS

LANGUAGE DESCRIPTION

ACTIVE SERVER PAGES

Active Server Page contains HTML tags that can be interpreted and displayed by a web browser. We can place Java applets, blinking text, client-side scripts, client-side ActiveX controls in an Active Server Page. It has three important features that make it unique,

- ❖ An Active Server Page can contain server-side scripts. By including server-side scripts in an Active Server Page. We can create web pages with dynamic content.

Active Server Pages Objects

An object is something that typically has methods, properties or collections. An object's method determines the things we can do with the object. An object's properties can be read or set to specify the state of the object. An object's collections constitute different sets of key and value pairs related to the object.

Overview of Built-in objects:-

Application object

It is used to store and retrieve information that can be shared among all users of an application. For example, the application object can be used to pass information between users to the web site.

Request object

It is used to access all information sent in a request from a browser to web Server. We can use the request object to retrieve the information that the user has entered into a HTML form.

Response object

It is used to send information back to a browser. We can use the response object to send output from scripts to browser.

Server object

It enables to use various utility functions on the server. For example the server object can be used to control the length of time a script executes before it times out. The server object can also be used to create instances of other object.

Session object

It can be used to store and retrieve information about particular user sessions. The session object can be used to store information that persists over the course of a visit by a user to the website.

Object Context object

It is used to control Active Server Pages transactions. The transactions are managed by the Microsoft transaction server.

Features Of An Active Server Pages Application:-

- ❖ Data can be shared among the pages in an application, and therefore, among more than one user of a web site.
- ❖ An application has events that can trigger special application scripts.
- ❖ An instance of an object can be shared among all the pages in an application.
- ❖ Separate applications can be configured with the Internet Service Manager to have different properties.
- ❖ Each application can be isolated to execute in its own memory space. This means that if one application crashes, the others won't crash with it.
- ❖ We can stop one application without affecting other applications.

HYPERTEXT MARKUP LANGUAGE(HTML):

HTML was developed as a subset of SGML for handling hypertext links in a fashion allowed the collection of links and their compilation and display by the user agent called a browser.

HTML enables to create more efficient and effective pages by separating the page's structure from its information. HTML elements are no longer concerned with the type of link they all, but with broadening the ability of the specification to accept new media.

- Codes to tell the computer how to interpret hypertext documents are called HTML.
- Different tags are used in HTML. Information along with the data is called tags.
- The browser interprets these tags and properly displays the page.

STRUCTURED QUERY LANGUAGE(SQL):-

- Using SQL one can create and maintain data manipulation objects such as tables, views, sequences etc.
- SQL sentences that are used to create these objects are called Data Definition Language(DDL).
- The SQL sentences used to manipulate data within these objects are called Data Manipulation Language(DML).
- The SQL sentences, which are used to control the behaviour of these objects are called Data Control Languages(DCL).

Open DataBase Connectivity(ODBC):

ODBC is a windows technology that lets a database client application connect to a external database. Here Asp is connected to the SQL Database.

Characteristics Of SQL

- SQL enables end-users and system personnel to deal with a number of database management systems where it is available. Increased acceptance and availability of SQL are also in its favour.
- Application written in SQL can be easily ported across systems. Such porting could be required when the underlying DBMS needs to be upgraded because of change in transaction volumes or when a system developed in one environment is to be used on another DBMS.
- SQL as a language is independent of the way it is implemented internally. A query returns the same result regardless of whether optimization has been done with indexes or not.

Advantages of SQL Server

Microsoft SQL Server data sources are ideally suited for access through ADO. Because SQL Server is fully OLE DB-compliant, we can use ADO to develop client applications, service providers, Web applications, and server business objects that access SQL Server data.

There are a number of considerations to take into account when programming ADO applications for SQL Server:

- OLE DB provider
- Development environment

Other considerations include:

- Microsoft's Remote Data Services (RDS).

RDS is a Web-based technology that uses Microsoft's Internet Information Services and special Microsoft ActiveX® controls to bind data from an ODBC SQL data source to data controls on a Web page. ADO is completely integrated with RDS technology. For more information about RDS, see the Microsoft MSDN™ Library, Microsoft Visual Studio® version 6.0 edition.

- Required data access functionality (cursor, transaction type, how to deal with stored procedures, and so on).

Advantages Of Javascript

Javascript can be Embedded into HTML. Javascript code is usually housed in HTML documents and executed within them. Javascript objects have HTML tags they represent, so the code is included at the core client-side level of the language. It also extends the normal capabilities of HTML by providing events to HTML tags and allowing this event-driven code to execute within it.

- Javascript is Environment Dependent
- Javascript is an Interpreted Language
- Javascript is Loosely Typed Language
- Javascript is an Object Based Language
- Javascript is Event Driven
- Javascript is not Java
- Javascript is multifunctional

VBScript

Microsoft introduced a client-side scripting language called Visual Basic Scripting Edition, or VBScript. VBScript, unlike Javascript, is based upon Microsoft's popular Visual Basic product. It uses the same syntax and structure as standard Visual Basic, allowing developers to use a language with which they are familiar.

Because of the limitations of running within a web browser, and because of security issues associated with running executable code downloaded with a web page, VBScript does not contain all of the same commands that Visual Basic contains. Also, because of the unique environment for VBScript scripts, there are a few new built-in functions that are not a part of Visual Basic.

1.4 OVERVIEW

The overview of the Centralized Inventory System, which is used in handling of the network materials, is that, it is being developed as an expansion of the existing System. This project is a part of the newly developed Centralized system. The company is adapting themselves with the new web technology by implementing this system. As a module of the Centralized system, we are developing for the help desktop team.

The help desktop team from different locations updates the Customers, Inventory, Network-media, Port Utilization, Material Movement Details and Technical Updates details. The data is made available through the network where the high official have clear about the business that is taking place in all the metro cities.

The developers are responsible for designing, developing, installing the software system satisfying the clients requirements. Any change made to the requirements in future will have to go through a formal change approval process.

The data is maintained in a centralized database, so that the data can be made available to all the connected intranet users. The technical update, which will be in the GIF/JPEG/BMP/DOC/XLS, will be uploaded to the server to make it available to the other user.

GENERAL DESCRIPTION

2.GENERAL DESCRIPTION

2.1.PRODUCT PERSPECTIVE:

The application has been developed for the Client where they are in the process of implementing a new web technology based intranet software for handling of the inventory of Network materials, by over coming drawbacks in the existing system.

- This project is no way related with a Product and is customized purely for our Client.

- The help Desk team of the company to provide enough service to their customers basically uses the software. The input to the software will be given at different location in the company.

- The locations will be connected with intranet network to maintain a centralized monitoring of data.

- The help desktop team from different locations updates the Customers, Inventory, Network-media, Port Utilization, Material Movement Details and Technical Updates details.

- The data is maintained in a centralized database, so that the data can be made available to all the connected intranet users.

2.2 PRODUCT FUNCTIONS:

Module Explanation:

There were about 6 modules in the application NETWORK INFORMATION SYSTEMS .Each module is explained here

1.Customer Details

The Customer's (Clients) will be the key person for the transaction that is taking in and around the company. The details of the customer such as the Name of the customer, Contact person of the Client, the Address of the Client, Network diagram of the client which will be in the JPEG/BMP/GIF format which will uploaded to the server location, where all a centralized server is maintained to store the data that is processed throughout the intranet site. The uploaded Network and Router Configuration files will be given in a hyper link so that it can be easily accessible to the executives using the application. The database manipulations such as add, update, delete operations are also performed apart from uploading of configuration files.

2.Inventory Details:

The inventory will play a vital role in the company's total transactions. The inventory module will have complete track of the customer's inventory. The desktop help team will play a vital role in using this area, where in they will be providing the complete service to the customers. The inventory will be of different types based upon the service that is provided to the customers. They are as follows

- a. Customer Equipment Inventory Details.
- b. GTL Details Inventory.
- c. GE - Equipment Details inventory
- d. GE - Equipment Unused Details
- e. Co-Location Inventory Details

- f. Equipment Moment Details
- g. Unused Equipment Details
- h. Other Equipment Details

3.Network Media Details:

The network media Details will hold the all the technical and management information of the client's details. The details such as Type of service that is provide to the client, Type of connectivity that the client the client is to provided, Type of Media the client is having. The different types of media are OFC, Copper, Infrared and RF.

The details such as

1. Line Applied Date,
2. Work Order Release Date,
3. Dot TAG Details,
4. Line Commissioning Date,
5. PCR Date,
6. PCR Sent to HO Dates,
7. Remark/Status etc.

The database operations such as add, modify, delete are performed. The report has been designed in such a way that the user can generate as per his wish by passing the exact query.

4.Port Utilization Details:

The port utilization details will be used only for the EBI clients. EBI is nothing but a type of service that the client will be having. The details such as Passport Switch Port that client is having, Port Speed of the client, the router port the clients is having, Serial Link the client is using, Ethernet IP of the Clients are also maintained.

The centralized database is used to store the information of the details. The report is generated as per clients format

5.Material Movement Details:

The material movement holds the details of the materials that are being supplied to the customer. The details of the hardware's that is supplied to the clients, the quantity of the hardware and the serial Number of the hardware's will also be entered. As per the Quantity of the hardware the serial number input box will be created dynamically.

The database will hold the all the transaction that is performed. The reports are generated as per the format of the client.

6.Technical Updates:

The technical updates is used to upload the Technical Documents, Network configuration, Network Diagrams to the Server and also simultaneously stored in the database. The Details are kept open to all the users those who are using the application.

The Key operation in this module is the uploading of the file from the clients Pc to the Centralized Server .

2.3.USER CHARACTERISTICS:

The user of the application will be a Technical person where in he has to be trained and also has be given a User Manual Guide to have quick reference in the initial stage of the implementation of the project.

2.4 GENERAL CONSTRAINTS:

- During the implementation of the project, more care should be taken to transfer from the existing system to new system, the transfer of data has to be made perfectly.
- The new system has to be tested with the Real Time data before implementing to avoid run time problems. So all primitive measures has to be taken to overcome any problem.

SPECIFIC REQUIREMENTS

3.SPECIFIC REQUIREMENTS

3.1.FUNCTIONAL REQUIREMENTS:

3.1.1 Introduction

The software has the maximum input from the user and the data is made available throughout the intranet of the company, which has intranet connection to all metro Cities.

3.1.2 List of Inputs:

1.Customer Details

2.Inventory Details

- a. Customer Equipment Inventory Detailed .
- b. GTL Details Inventory.
- c. GE – Equipment Details inventory
- d. GE – Equipment Unused Details
- e. Co-Location Inventory Details
- f. Equipment Moment Details
- g. Unused Equipment Details
- h. Other Equipment Details

3.Network Media Details

4.Port Utilization Details

5.Material Movement Details

6.Technical Updates

All the above input will be having different having the manipulation such as Save, Modify, Delete options. The report for all the input will be given in a tabular display , so that the user can have clear report.

3.1.3 INFORMATION PROCESSING REQUIRED (DFD):

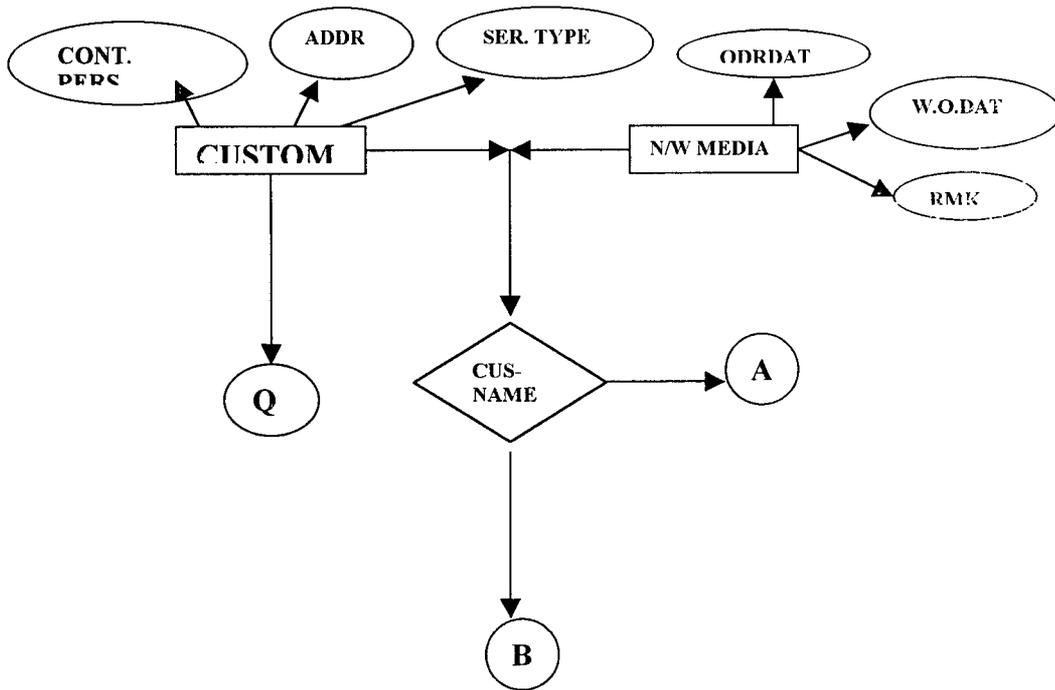


Fig 1.0

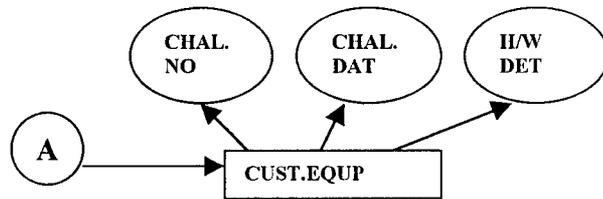


Fig 1.0

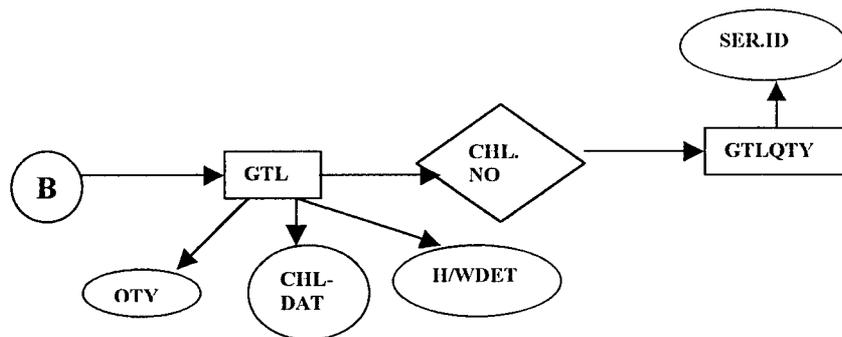


Fig1.0

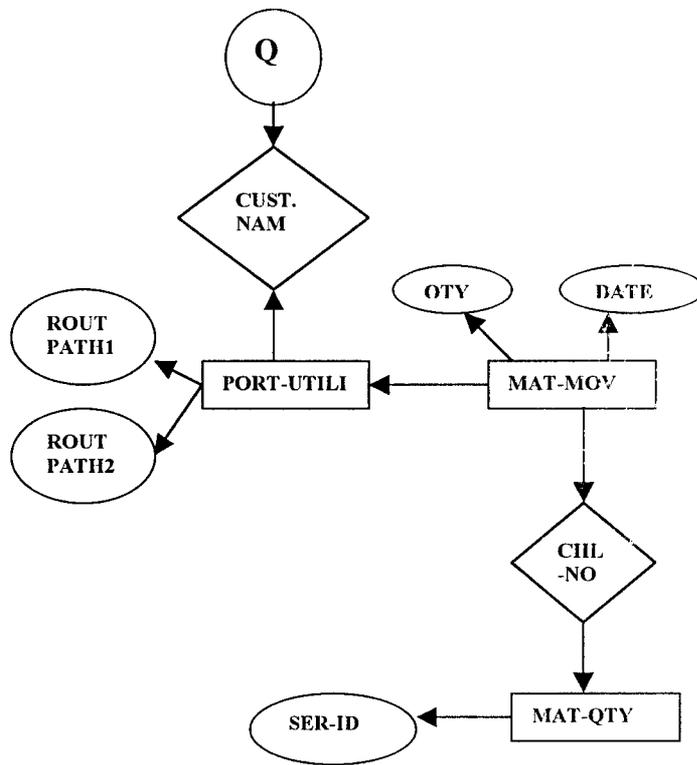


Fig 1.0

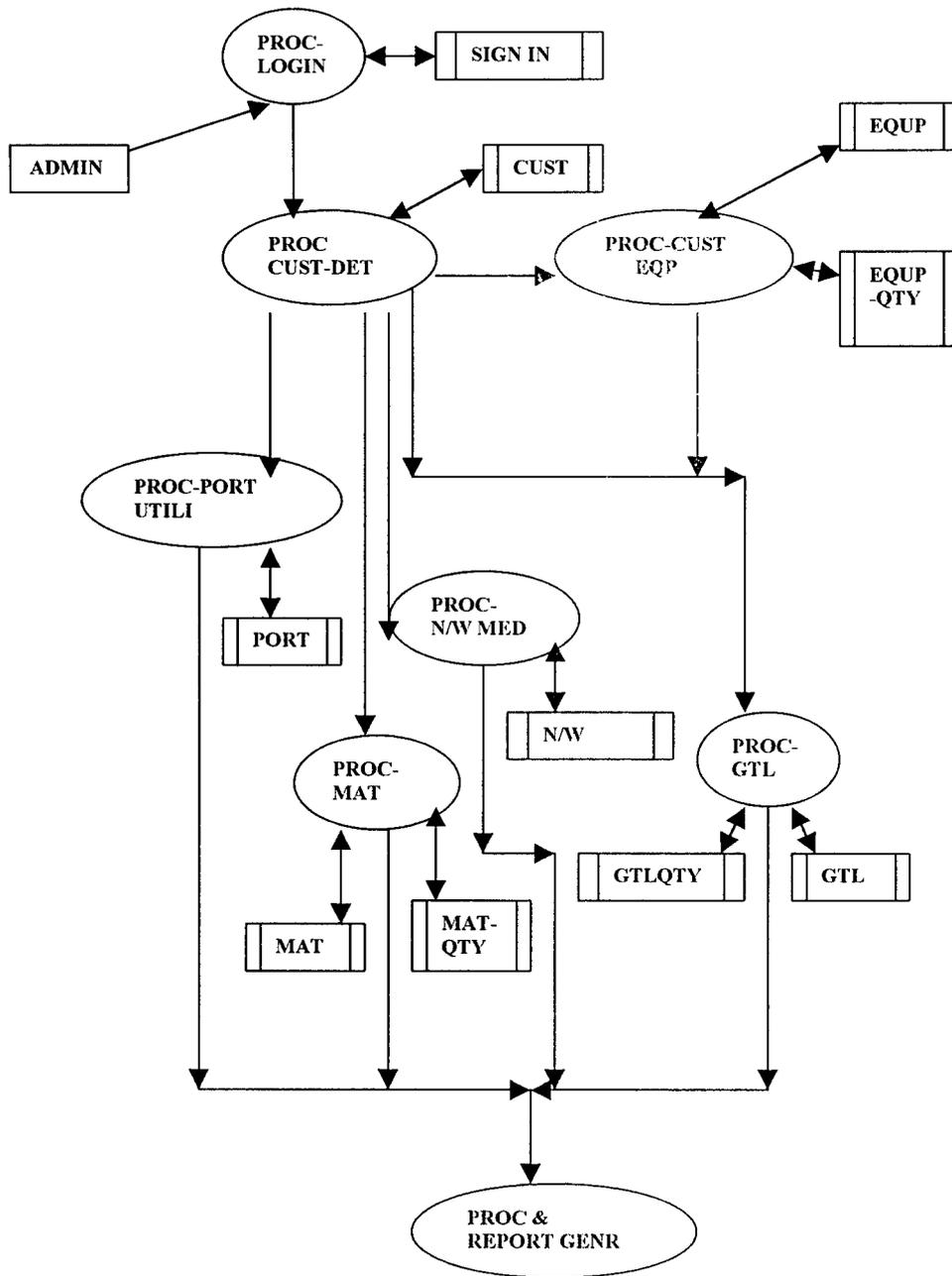


Fig 1.1

3.2 PERFORMANCE REQUIREMENT:

3.2.1 Security:

The database has been given access only for authenticated Users . This software has a very high security.The project is developed in Active Server Pages(ASP) the Application entry is restricted with Authenticated User.

The backend Structured Query Language(SQL) database is connected to the front end using the Open DataBase Connectivity(ODBC).Updating of data's in the database takes place which is stored in the centralized database in the backend Structured Query Language(SQL).

The backend Structured Query Language(SQL) connected to Open DataBase Connectivity(ODBC) provides high security by providing a password for the Data SourceName(DSN),in the Open DataBase Connectivity(ODBC).

3.2.2 Availability:

The Application is the made available in the Network and all the data that is given as input will be stored in a centralized Network database.The project is very user friendly and the screen formats helps the customer to input data's in an elegant manner.

The project helps the customer to input their data in an efficient manner and the given input is stored in the Structured Query Language(SQL) connected to Open DataBase Connectivity(ODBC) driver.

3.2.3 Capacity:

The NETWORK INFORMATION SYSTEM has a full fledged capacity because it can hold numerous amount of data in the backend Structured Query Language(SQL) to maintain a centralized intranet inventory system and to overcome tedious workloads of humans and it saves large amount of time and data.

3.2.4 Performance:

The performance of system will be slow compared to the other application software, because all the data is stored in a centralized database with proper acknowledgement between client/Server. The Response time depends upon the system configuration and the way in which the user access the application.

3.3 DESIGN CONSTRAINTS

3.3.1 Standard Compliance

- It gives us a clear idea and user friendly for the user who is accessing the centralized database system and saves the time.
- It reduces the manual workload since it is computerized and it is accurate.

3.3.2 Hardware Requirements:

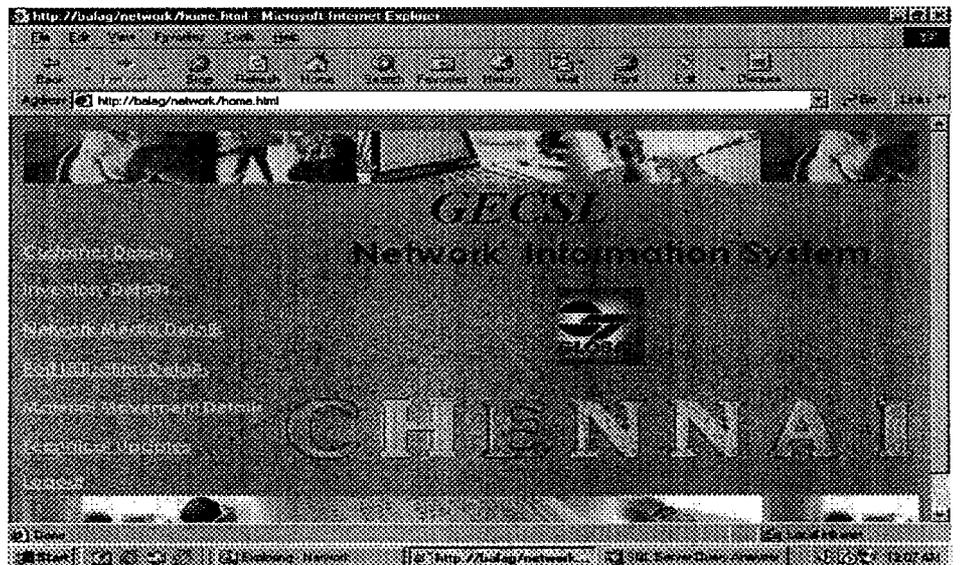
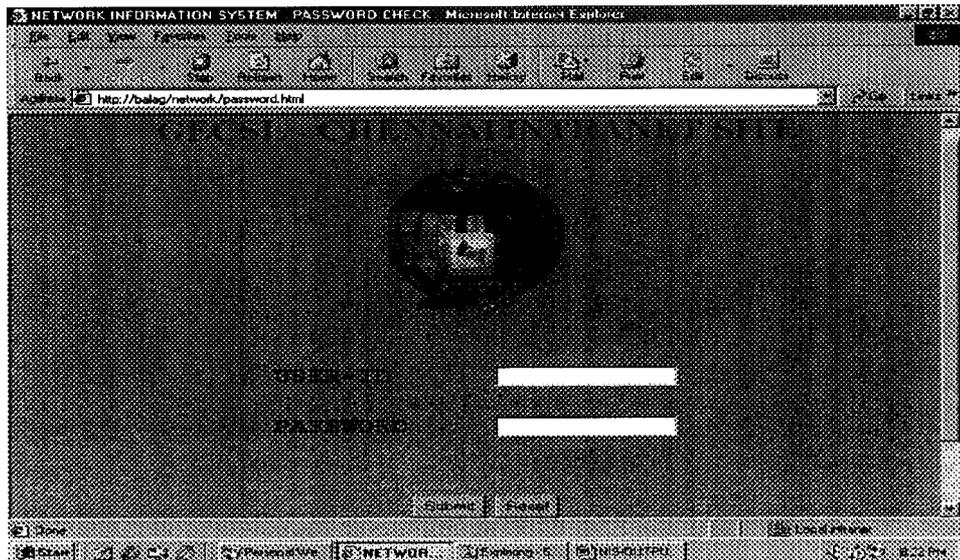
1. Processor Type	:	Pentium III
2. Processor Speed	:	600 MHZ
3. Memory	:	64 MB RAM
4. Hard Disk Capacity	:	Min 2 GB
5. Monitor	:	SVGA Monitor
6. Mouse	:	Logitech
7. Keyboard	:	101 Keys

Software Requirements:

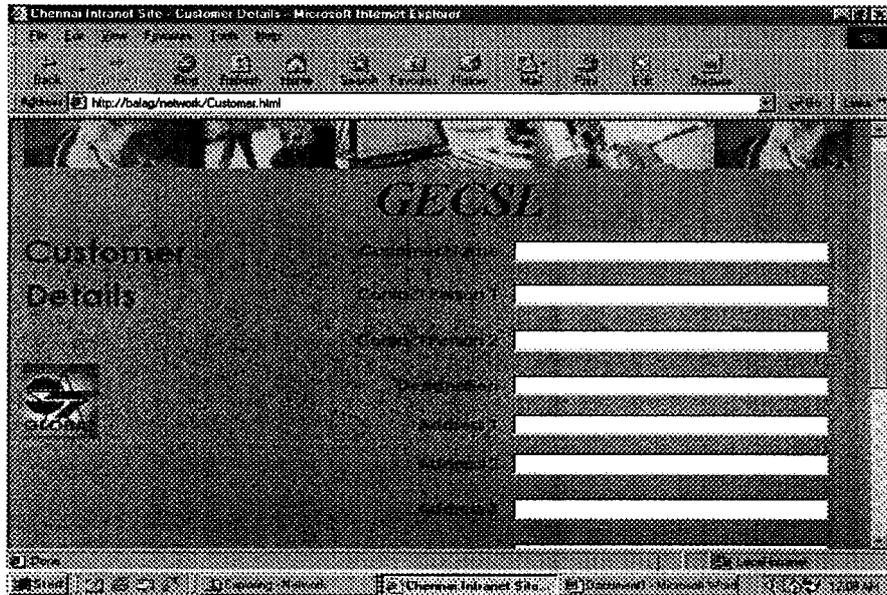
1. Operating System : Windows 9x/Nt/2000
2. Programming Language : HTML
3. Web Technology : Active Server Page
4. Back – End Tool : SQL Server 7.0
5. Script Language : VB Script , Java Script

USER INTERFACE ,SCREEN FORMATS

3.3.3 User Interface, Screen Formats

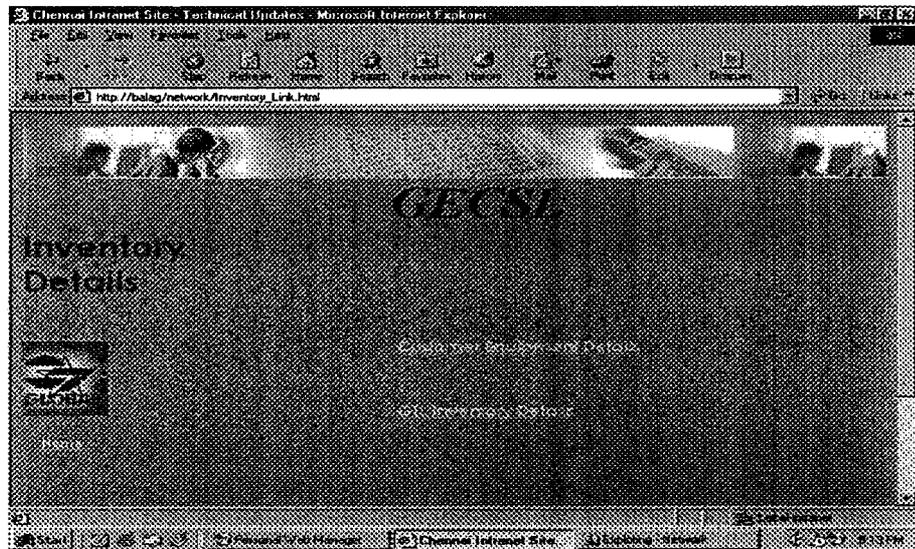


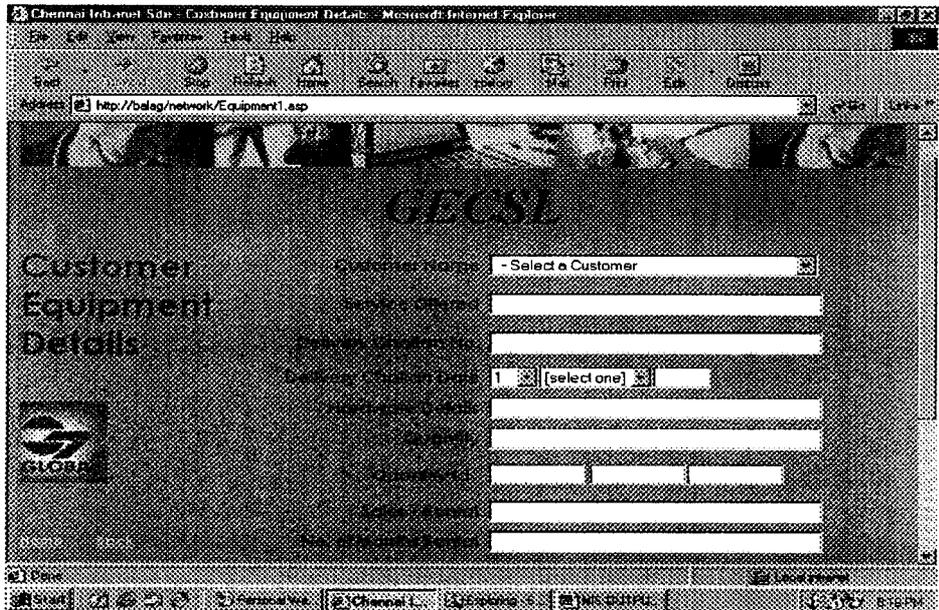
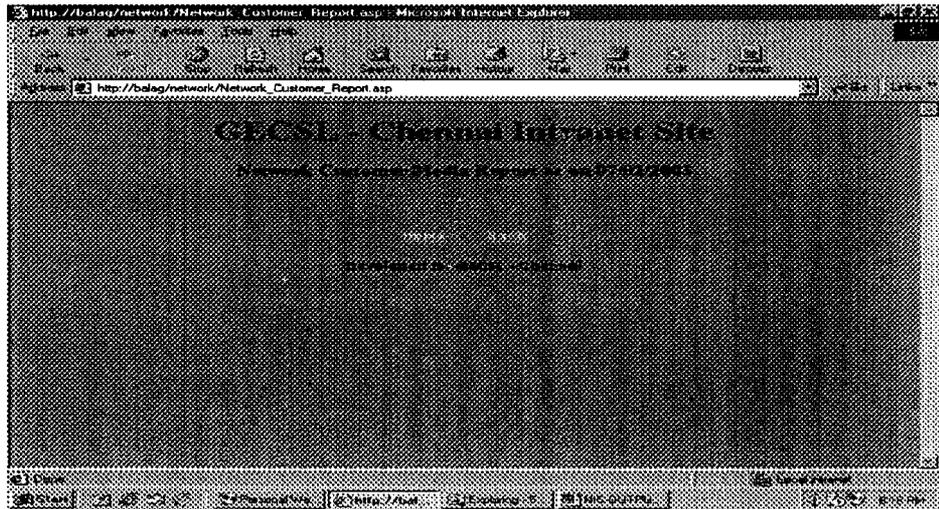
Module 1: CUSTOMER DETAILS



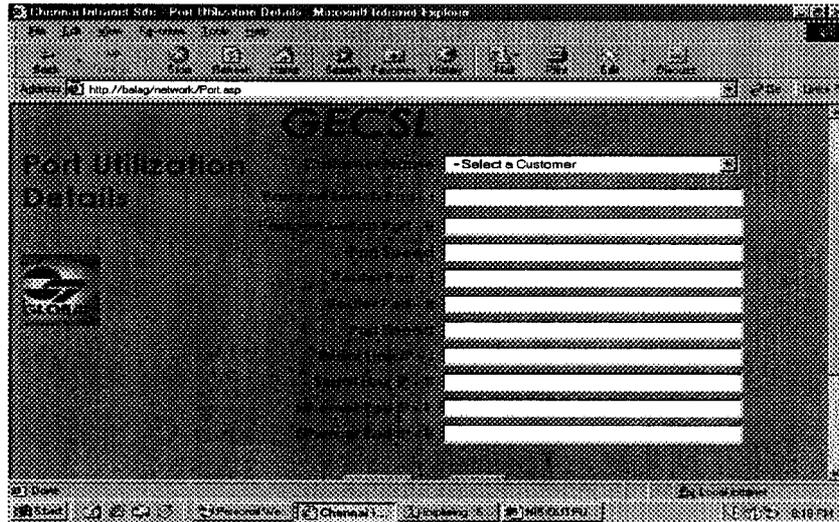


Module 2: INVENTORY DETAILS

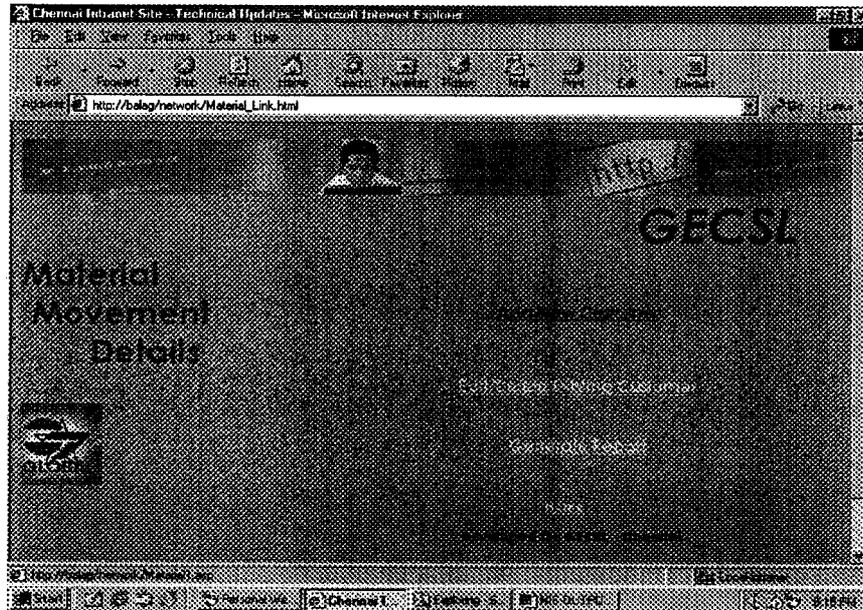


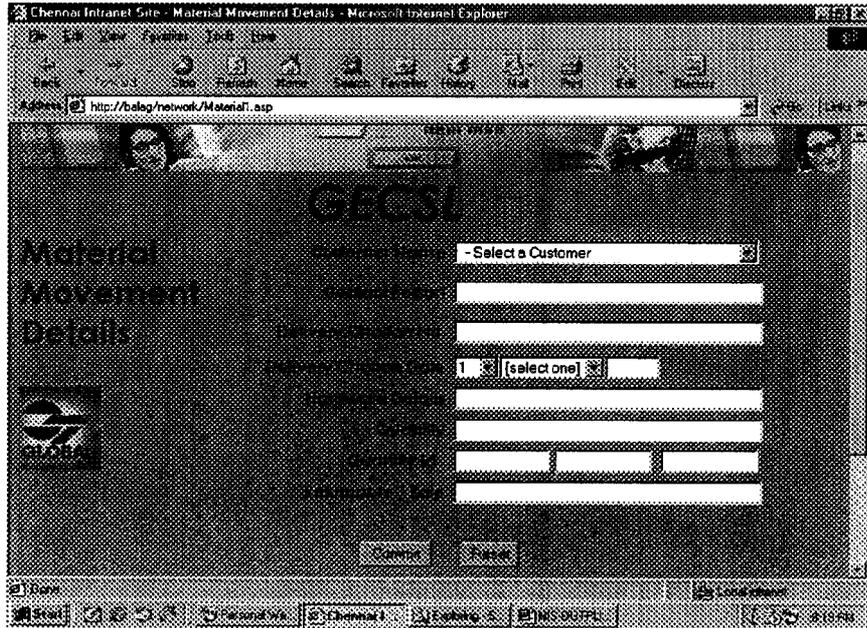


Module 4: PORT UTILIZATION DETAILS

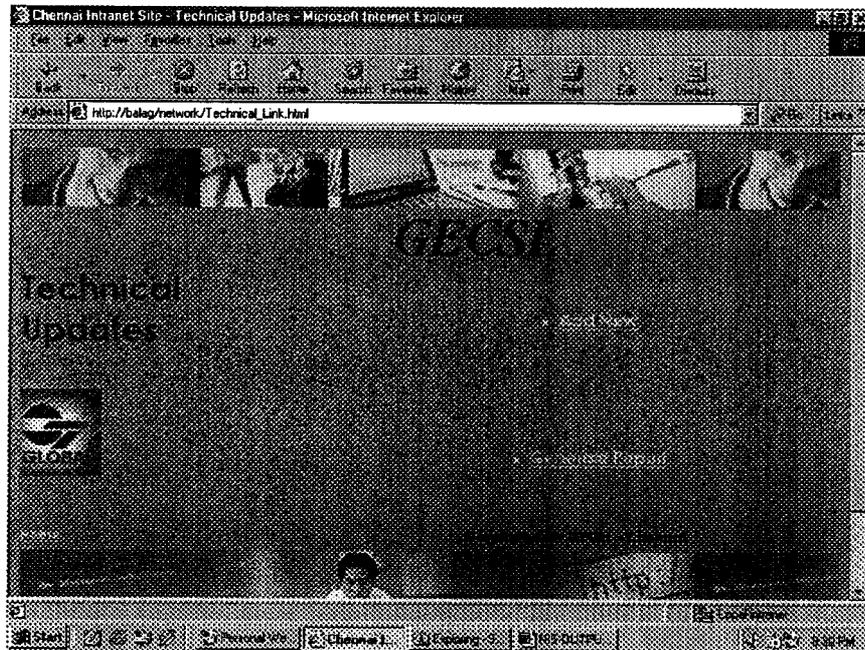


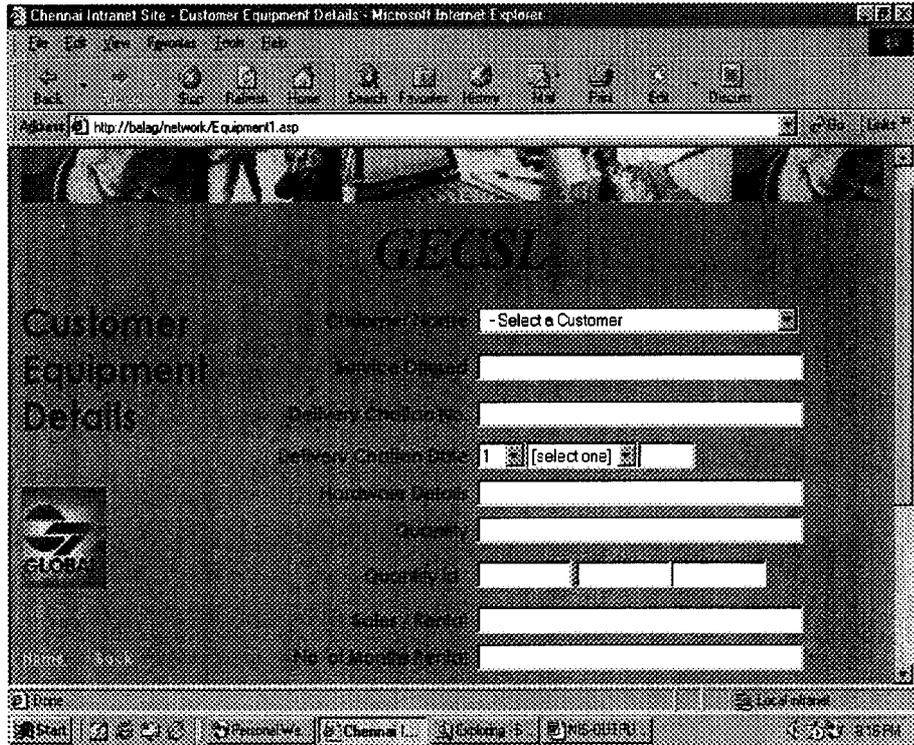
Module 5: MATERIAL MOVEMENT DETAILS





Module 6: TECHNICAL UPDATES





REPORTS

http://system2/network/Customer_Report.asp

GECSL - Chennai Intranet Site

Customer Report on 04/07/2001

CUSTOMER NAME	CUSTOMER GROUP	CUSTOMER ADDRESS	TELEPHONE NUMBER	ADDRESS	CITY	STATE	ZIP CODE
Network Enterprises	IT/IS	17, 18th	044-2434	17, 18th	Chennai	Tamil Nadu	600 015

Developed by GECSL - Chennai

http://system2/network/Equipment_Report.asp

GECSL - Chennai Intranet Site

Customer Equipment Report on 04/07/2001

Customer Name	Service Offer	Chassis Number	Chassis Type	Hardware Details	Quantity	Unit Price	Net Price	Tax	Amount	Invoice No
Network Enterprises	IT/IS	172474	7702001	1001	1	7700	7700	0.00	7700	0000

Developed by GECSL - Chennai

http://system2/network/GTL_Report.asp

File Edit View Favorites Tools Help

http://system2/network/GTL_Report.asp

GECSL - Chennai Intranet Site

GTL Inventory Report as on 01/02/2005

Station Number	Station Type	Station Class	Inventory Date	Quantity	Serial No. 1	Serial No. 2	Serial No. 3	Serial No. 4	Serial No. 5
100001	100001	100001	01/02/2005	1	100001	100001	100001	100001	100001

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http://system2/network/GTL_Report.asp

http://system2/network/Network_Customer_Report.asp

File Edit View Favorites Tools Help

http://system2/network/Network_Customer_Report.asp

GECSL - Chennai Intranet Site

Network Customer Media Report as on 01/02/2005

Customer Name	Customer Address	Address	Phone Number	Service Description	System Configuration	Media Type	Media Qty	System Serial Number	Customer Serial No.	Warranty
Network Customer	100001	100001	100001	100001	100001	100001	100001	100001	100001	100001

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http://system2/network/Network_Customer_Report.asp

http://system2/network/Material_Report.asp?material=000000

Address: http://system2/network/Mat_Report.asp

GECSE - Chemical Internet Site

Material Maximum Report of the 000000

Customer Name	Customer Address	Delivery Order Number	Delivery Order Date	Material Detail	Quantity	Unit	Material No.1	Material No.2	Material No.3
Shanghai Petrochemical	Sh. 2004	0207	01/2004	00000000	1	0207	00000000	00000000	00000000

http://system2/network/Material_Report.asp?material=000000

http://system2/network/Material_Report.asp?material=000000

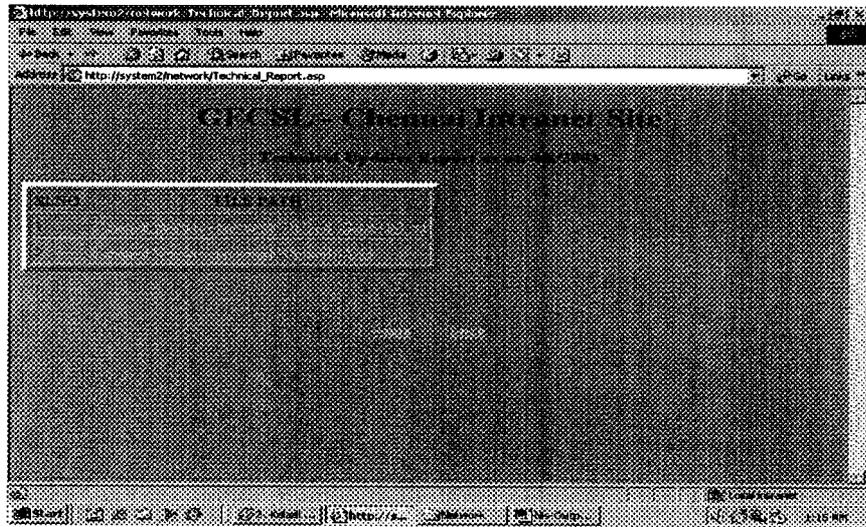
Address: http://system2/network/Material_Report.asp

GECSE - Chemical Internet Site

Material Maximum Report of the 000000

Customer Name	Customer Address	Delivery Order Number	Delivery Order Date	Material Detail	Quantity	Unit	Material No.1	Material No.2	Material No.3
Shanghai Petrochemical	Sh. 2004	0207	01/2004	00000000	1	0207	00000000	00000000	00000000

http://system2/network/Material_Report.asp?material=000000



3.4.OTHER REQUIREMENTS

3.4.1 Operation Required by User:

The user of the application will be a Technical person where initial trained has be to be given and an User Manual Guide to have quick reference in the initial stage of the implementation of the project.

3.4.2 Site Adaptation Requirements:

This application runs on any kind of platform where initial training has to be given to the user and an User Manual Guide to have quick reference in the initial stage of the implementation of the project.

CONCLUSION & FUTURE ENHANCEMENTS

4. CONCLUSION

The project “Network Information Systems” has been developed in a controlled manner which helps further progress to be performed in a trouble-free way.

The coding is done in a simplified way and is comprehensible and flexible, which helps in making more important, changes easily. While scheming the system all requirements that are desired in the future are measured and these requirements are implemented in the system.

The objectives defined have been achieved successfully. The implementations that has been done in step by step implementation. Each module has been developed and tested.

The system has been designed and run to satisfy the needs of the organization. The Network information systems results in quick retrieval of information which is very vital to the progress of an organization.

APPENDIX

5.BIBLIOGRAPHY

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