B2B PORTAL FOR
GARMENT QUOTA LICENCE TRANSACTIONS

PROJECT WORK DONE AT

IDEA TEC
COIMBATORE

PROJECT REPORT

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF THE DEGREE OF
M.Sc (APPLIED SCIENCE - COMPUTER TECHNOLOGY)
OF BHARATHIAR UNIVERSITY, COIMBATORE.

SUBMITTED BY

M.MANIKANDAN
REG. No. 9937Q0007

Guided By

EXTERNAL GUIDE

Mr. R.Venkatachalapathy B.E.,
Project Leader,
IDEA TEC,
Coimbatore - 641 012.

INTERNAL GUIDE

Ms D.Chandrakala, M.E.,
Senior Lecturer,
Dept. of Comp.Sci and Engg.,
Kumaraguru College of Tech,
Coimbatore – 641 006.

Department of Computer Science and Engineering

CERTIFICATE

Department of Computer Science and Engineering
Kumaraguru College Of Technology
(Affiliated to the Bharathiar University)
Coimbatore – 641 006.

CERTIFICATE

This is to certify that the project work entitled

B2B PORTAL FOR GARMENT QUOTA LICENCE TRANSACTIONS

Done by

M. MANIKANDAN

REG. NO. 9937Q0007

Submitted in partial fulfillment of the requirements for the award of the degree of **M.Sc Applied Science - Computer Technology** of **Bharathiar University.**

S. Thyagarajan 23/4/01
Professor and Head

D. Chandrakala
Internal Guide

Submitted to University Examination held on 27/4/2001

IDEATEC
"Complete Computer Solutions

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.M.MANIKANDAN, Reg No. 9937Q0007, final year M.Sc-CT student of Department Of Computer Science and Engineering, Kumaraguru College Of Technology, Coimbatore, has carried out his project work entitled "B2B PORTAL FOR GARMENTS QUOTA LICENSE TRANSACTIONS" in our concern successfully, during January to April 2001. This is for the partial fulfillment of the requirement for the award of the Degree of Master of Science (Applied Science – Computer Technology), Bharathiyar University, Coimbatore.

Regards,

Mr. R. Venkatachalapathy,
Project Leader,
IDEA TEC.

DECLARATION

DECLARATION

I hereby declare that the project entitled

B2B PORTAL FOR
GARMENT QUOTA LICENCE TRANSACTIONS

Submitted to **Bharathiar University** as the project work of **M.Sc Applied Science - Computer Technology** Degree, is a record of original work done by me under the supervision and guidance of Mr. Venkatachalapathy, Project Leader IDEA TEC, Coimbatore and Ms. D.Chandrakala, M.E., Department of Computer Science and Engneering, Kumaraguru College of Technology, Coimbatore. This project work has not found the basis for the award of any Degree/Diploma/ Associate ship/Fellowship or similar title to any candidate of any university.

Place: COIMBATORE

Date: 23/04/2k1

M. Manikandan

Countersigned by

Ms. D, Chandrakala, M.E.,
Senior Lecturer,
(Internal Guide)

Mr. R. Venkatachalapathy,B.E
Project Leader,
(External Guide)

CONTENTS

CONTENTS Page No.

ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

I am very grateful to Dr. K.K.Padmanaban B.Sc(Engg)., M.Tech., Ph.D., Principal Kumaraguru College Of Technology for providing me all the facilities with good infra structure and allowing me to take on this live project for IDEA-TEC.

I thankful to Prof. Dr. S. Thangaswamy BE(Hons)., Ph.D., Head of the Department (Computer Science and Engineering) for his help and assistance during this course.

I am deeply indebted to Ms.D.Chandrakala M.E., Senior Lecture, Department Of Computer Science and Engineering for her valuable support and guidance through out this project. Her continuous comments and suggestions put this project to successful completion.

Its my great privilege and pleasure of mine to express my sincere thanks to Mr. R.Venkatachalapathy B.E., Project Leader, IDEA TEC for giving me this opportunity to work on this project and for his continuous support.

Also I render my sincere thanks to all my staff members, Department of Computer Science and Engineering and deeply extend my thanks to my friends and family members for their kind co-operation and involvement in developing this system successfully.

SYNOPSIS

SYNOPSIS

B2B Portal for Garment Quota Licence Transaction is a web-based application developed for IDEA-TEC, coimbatore. It is a B2B site used by the exporters and brokers dealing in the quota transaction. The core functionality of this system involves maintaining the details of the users and allowing these members to manage quota transactions and submissions. This web site plays a vital role in allowing its members to efficiently sell or buy the quota licence without the help of brokers.

It takes care of the system level authentication, authorization and administration activities. It allows the members to keep their data confidential. The system allows the public to submit the quota licence about its availability and its requirements. The user can view the status of the submitted quota. Parties and agents get all the benefits of the public besides being allowed to view the quota transaction details with their broker. Similarly brokers get the benefits of the public and can maintain his master details for his various transactions. System allows the users to differentiate the data as confidential and open. So the characteristics and functions of the system depend on the user type.

This application is developed using HTML and Java Script for client side interaction and validation. Java Server Page has been used for server side programming. It runs on Weblogic application Server and SQL Server acts as the Database Server. The system can run on any platform with JVM.

INTRODUCTION

1. INTRODUCTION

Quota licence is a certificate provided to the garment exporters by the government for a particular country and category by specifying the quantity of goods. This certificate is allotted to the exporters on the following basis

1. PPE - Past Performance Entitlement
2. FCFS - First Come First Serve
3. NIE - New Investor Entitlement

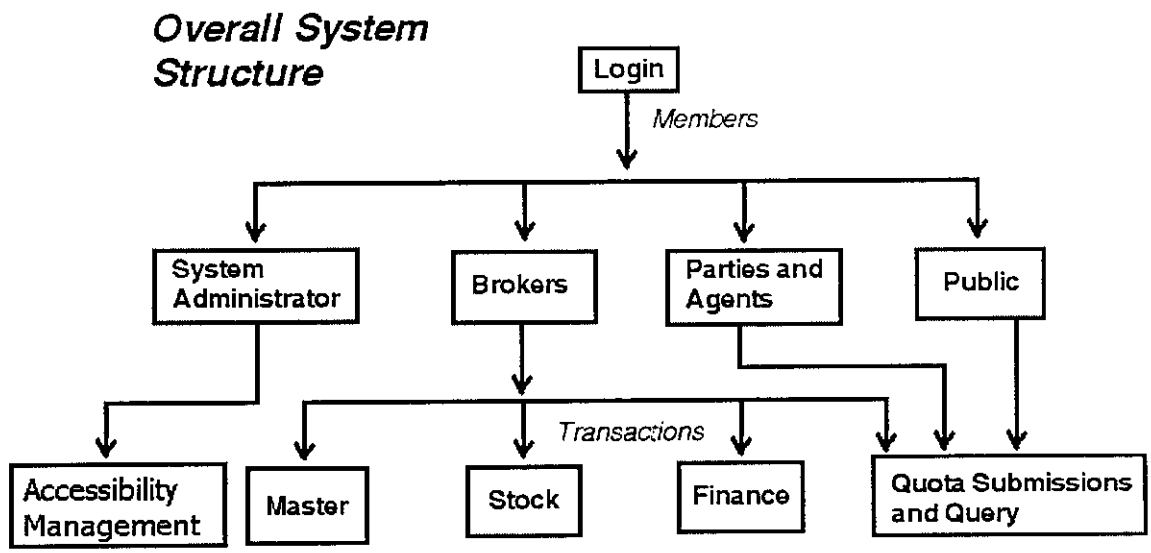
Only Type1. Certificate is transferable to any other exporters who are in need of that Quota Licence for exporting their goods to that particular country and category. This certificate holder would be called as a ***seller*** and the quota-needed ***exporter*** will be a ***buyer***. This could be transferred formally through AEPC (Apparel Export Promotion Council) , either partially to different exporters or fully to a single exporter .This is mostly done through BROKERS.

Broker would act as a mediator between the seller and the buyer. His presence would be virtual during their formal transfer. The broker might want to maintain his transactions and the financial accounting between them.

1.1 PROJECT OVERVIEW:

B2B Portal for Garment Quota Licence Transaction is an Internet based application. Tirupur exporters and the brokers dealing in the quota transactions need a B2B portal for promoting their business. This system fulfills their needs. The various functions of this application include

1. Maintaining the master details of the members and managing their accessibility rights through the system administrator.
2. Maintaining the master details of parties and agents and manage their necessary rights by the brokers.
3. Members could submit their quota availability and quota requirements independently.
4. Selective submitted quotas details could be enabled or disabled for different kinds of users.
5. Quota submitted users could view the list of various users enquired the submitted quotas. Brokers could maintain their quota transaction (Public and Sales) and financial accounting, with their parties and agents. These transaction details could be made visible to their respective parties and agents.



1.2 ORGANISATION PROFILE.

IDEATEC (IT) is a fast & steadily growing software company based at coimbatore started by enthusiastic, deterministic and dynamic entrepreneurs. IDEATEC was started on February 1997, which now becomes a Private Limited Company in December 2000. IT offers business solution in key areas like integrated solutions for Exporters Production Planning and Process Units. In the span of 3 years growing its client base to 100 and keeps up the record of 100% client satisfaction and NIL Dropouts. It now caters for software requirements for about 70 business units in Tirupur alone. It also has its customers spread at Coimbatore, Erode and Chennai. The company with its intuition to builtup its infrastructure and manpower, whenever the necessity arises, has kept its customers satisfied with quality and prompt delivery of the software.

The company now upholds its strength in window platform solutions, which started with VB3.0 and Access'97 now to VB6.0 with NT-SQL Server and emerging with solutions including XChange Servers for providing Client-Server solutions. IDEATEC never overlooks any part of their project developments, thanks to this strong feeling to have contracted consultants, who include Charted Accountants and area specific professionals to develop the software to the expectation of the client. The Customers in various categories are Exporters, Processing units, Educational Institutions, Traders.

SYSTEM STUDY AND ANALYSIS

2. SYSTEM STUDY AND ANALYSIS:

2.1 EXISTING SYSTEM

Existing system is a Quota Management System. It is a stand-alone application developed using VISUAL BASIC 5.0 with Access7.2. It helps the brokers to maintain their quota transactions and his financial accounting.

Limitations:

- Only the brokers could access this system. So his parties and agents find it difficult to see their transactions.
- In urgent situation like quota requirements, there is no proper media to communicate with public.
- Since the system is developed in Access, security is not enough.
- The scope of the system is very less because it is limited to a single user within a boundary.

2.2 PROPOSED SYSTEM:

The proposed system overcomes the limitations of the existing system and fulfills the needs and requirements of the users. Since it is an internet based it will enhance the scope of interaction between the different users who access it.

Advantageous:

Scope:

Hosted in the Internet, so number of users will be more and get benefited.

Security:

SQL Server would be one of the powerful tool for high security. Option for Forget Password or Remember Password is not given for maintaining the confidential details with secured.

Management:

Members have their own management right to maintain their transactions. Maintenance is free with high confidential.

2.3 REQUIREMENTS ON NEW SYSTEM:

The number of users are increased and allowed to buy and sell their quota licence. No practice is required for the users to use since all the functionality is simple and easy.

Information Processing Requirements:

The members could save the New entries, View, Delete and Update the existing one. But during Deletion some internal constraints are checked to reduce the data loss.

Performance requirements:

Security:

The system should be highly secured since when this product is hosted in the Internet where any Internet connected user could enter into this site. So to maintain the member's confidential details User ID and Password are properly checked to login the system and while walk through on different pages the session is checked for identification and validation of the user

Availability:

This system is available for 24 hrs per day and accessible to the members who have the Internet connection. Accessibility is take care of System Administrator.

Capacity:

The capacity of the application is purely depends upon the network traffic bandwidth and user node configuration.

Response time:

Response time depends upon the network traffic and the total number the user of that Web Server. It is rate as minimum 8 Seconds.

2.4 USER CHARACTERISTICS:

Any user could become a member of this application to access after getting the accessibility rights from the administrator. Characteristics of this application behave according to the user type.

1. *Administrator.*

   Administrator maintains the various master details of member's, country and category details and the member's accessibility rights.

2. *Brokers*

   - Application allows him to maintain the master details of both parties and agents and managing their accessibility rights.
   - He can submit the quota details to publish as available quota and required quota.

3. *Parties*

   3.1 Seller

- After getting the accessibility right from their brokers he could see his own quota transaction status details.
- He can submit the quota details to publish as available quota and required quota.

3.2 Buyer

- After getting the accessibility right from their brokers he could see his own quota transaction status details.
- He can submit the quota details to publish as available quota and required quota.

4. *Agents*

   Agents wouldn't be a direct Seller or a Buyer of the quota. As like parties, he too able to publish and query the Quota details.

5. *Public*

   He can submit the quota details to publish as available quota and required quota.

All these members could view the list of users who have viewed and enquired the quotas submitted.

User Constraints:

Only the members could access this application and the user should,

- Have a basic knowledge in Internet-how to use it.
- Remember their register ID and his respective Password.

- For non-members he has to get the accessibility rights, broker, members from the System Administrator and Parties and Agents from Brokers.

Since we have four types of users, each user has their own characteristics, the system behaves in a unique manner depending on the type of user who has logged in.

PROGRAMMING ENVIRONMENT

3. PROGRAMMING ENVIRONMENT

3.1 HARDWARE CONFIGURATION.

Processor	:	Pentium III 450 MHz
Main Memory	:	64 MB RAM
Hard Disk	:	2 GB Hard Disk
Floppy Disk	:	1.44 MB
Display Type	:	SVGA Color Monitor
Mouse	:	Logitech
Keyboard	:	104 keys
Modem	:	56Kbs

3.1 DESCRIPTION OF THE SOFTWARE AND TOOLS USED.

HTML 5.0:

Hyper Text Markup Language, an application of Standard Generalized Markup Language used for web page design in the client side with good user-friendly components. Since all standard browsers support it, user find it easier to communicate with the system. It helps to link to multiple pages.

JAVA SCRIPT:

This script language plays its role during client side validations. It helps to passing different parameter values to the same program according to the client's input.

BEA - WEB LOGIC:

WebLogic Server allows you to quickly develop and deploy reliable, secure, scaleable and manageable applications. WebLogic Server manages system-level details so you can concentrate on business logic and presentation. WebLogic Server operates at the center of a multitier architecture. In this architecture, business logic is executed in WebLogic Server, rather than in client applications. The resulting "thin" client, three tier architecture allows the client to manage the presentation layer, the application server to manage the business logic and the back end data services manage the data. This makes WebLogic Server the ideal platform for web-enabled e-commerce applications. In the middle tier, WebLogic Server provides a reliable, highly scalable platform for hosting business logic. It serves static and dynamic web pages, and manages database access, security, and transaction services for applications.

The reason WebLogic proves to be a better choice is because:

1. For future enhancement of the system may developed with any technology (may be CORBA), so Web Logic support this Technology.
2. It is an Application Server

Java Server Page:

JSP is a JavaSoft standard specification for combining Java with HTML to provide dynamic content in web pages. It is more convenient to write than HttpServlets since it allows you to embed the Java directly into your HTML page layout. JSP is part of the Java Enterprise Platform. It consists of HTML or XML markup into which special tags and code blocks are inserted. The code is executed

on the server and the result is a dynamic page that is returned to the client browser. Although JSPs are simple to build they have at their disposal the full power of object-oriented Java and the Java Server API. JSPs make heavy use of Java Beans, which are classes that follow a standard pattern of a no-argument constructor (required in JSPs) and public GET and SET methods.

The reason Java Server Pages proves to be a better choice is because:

1. Java Server Pages is a simple yet powerful way of developing dynamic server-side applications
2. As part of the Java™ family, JSP technology enables rapid development of web-based applications that are platform independent.
3. JSP can be much simpler and quicker to build than a servlet.
4. Every JSP contains implicit references to API objects that do not need to be declared. They are: request, response, pagecontext, session, application, out, config, page, exception.

ODBC:

Open Data Base Connectivity act as a mediator for communicating any database with an application provided by Microsoft.

JDBC:

Java Database Connectivity (JDBC) is the industry standard for database-independent connectivity between Java applets/applications and a broad range of SQL databases. All the benefits of "Write Once, Run Anywhere" equally apply to JDBC. The JDBC API defines Java classes that represent database connections,

SQL statements, result sets, database metadata, etc. It allows a Java programmer to do three things

- Establish a connection to a database
- Issue SQL statements
- Process the results

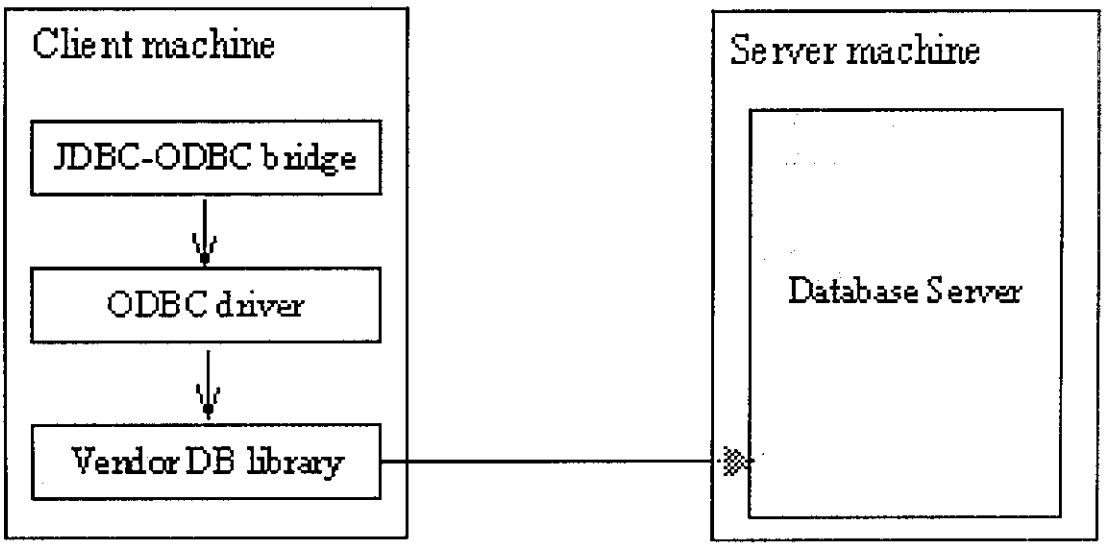
Java Data Base Connectivity API is a part of the Java Enterprise APIs from Java Soft. This interface provides the application with a set of methods that enable database connections, queries and result retrievals. It is the interface between the specific database drivers and the Java user applications, applets, Servlets or JSP. The JDBC API is implemented via a driver manager that can support multiple drivers connecting to different databases.

Type 1: JDBC-ODBC Bridge Driver:

The type 1 driver, JDBC-ODBC Bridge, translates all JDBC calls into ODBC (Open DataBase Connectivity) calls and sends them to the ODBC driver. As such, the ODBC driver, as well as, in many cases, the client database code, must be present on the client machine.

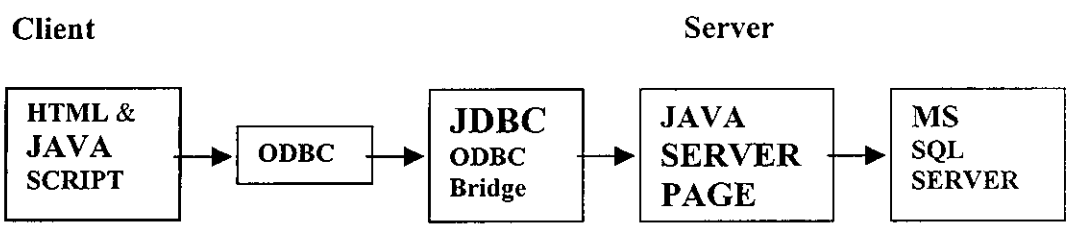
Following Figure shows a typical JDBC-ODBC Bridge environment.

The JDBC-ODBC Bridge allows access to almost any database, since the database's ODBC drivers are already available. Type 1 drivers may be useful for those companies that have an ODBC driver already installed on client machines.



MS SQL SERVER 7:

It is a powerful Relational Database Management product developed by Microsoft. It provides query optimization, data integrity, backup and recovery with high security and authorization. It consists of various user-friendly graphical interface component like SQL Server Enterprise Manager and SQL Server Query Analyzer to manage the database objects. It supports triggers to reduce the SQL statements to transfer from the application. It increase the performance of the system.



SYSTEM DESIGN & DEVELOPMENT

4. SYSTEM DESIGN AND DEVELOPMENT.

System design is the foundation for the system development. So more concentration is given while designing the system.It is divided in to four modules to reduce the complexity. Each modules have its own functions. The various modules are as follows

- **Module #1**: Master Maintenance

  Member Details

  Country Details

  Category Details

  Quota Submission

  Quota Purchase

  Quota Sales

- **Module #2**: Accessibility Rights

  Administrator Part (Broker/Public)

  Broker Part (Agent/Party)

- **Module #3**: Transaction Status Display

  Purchase Details.

  Sales Details.

  Submitted Quota.

  Enquired Users.

We discuss these modules indetail in the following design. Module #1 involves all the data entry and maintainance which is explained in Input Design. Module #2 explained in Process Design and Module #3 explained in Output Design.

4.1 INPUT DESIGN:

Before starting the input design, various constraints are forced on the programmers are,

Reducing the constraints on the users while entering the optional data. Reducing more links for simplicity. Reducing the unnecessary communication with the server to increase the accessibility speed. Creating the reusability object to reduce the code and memory space.

The various necessities for these attentions are, to minimize the error at the client side, to increase the interaction with the users, avoiding redundant entries, data accuracy and free of ambiguity. The aim of this design is to make the data entry easy and to avoid data inconsistency.

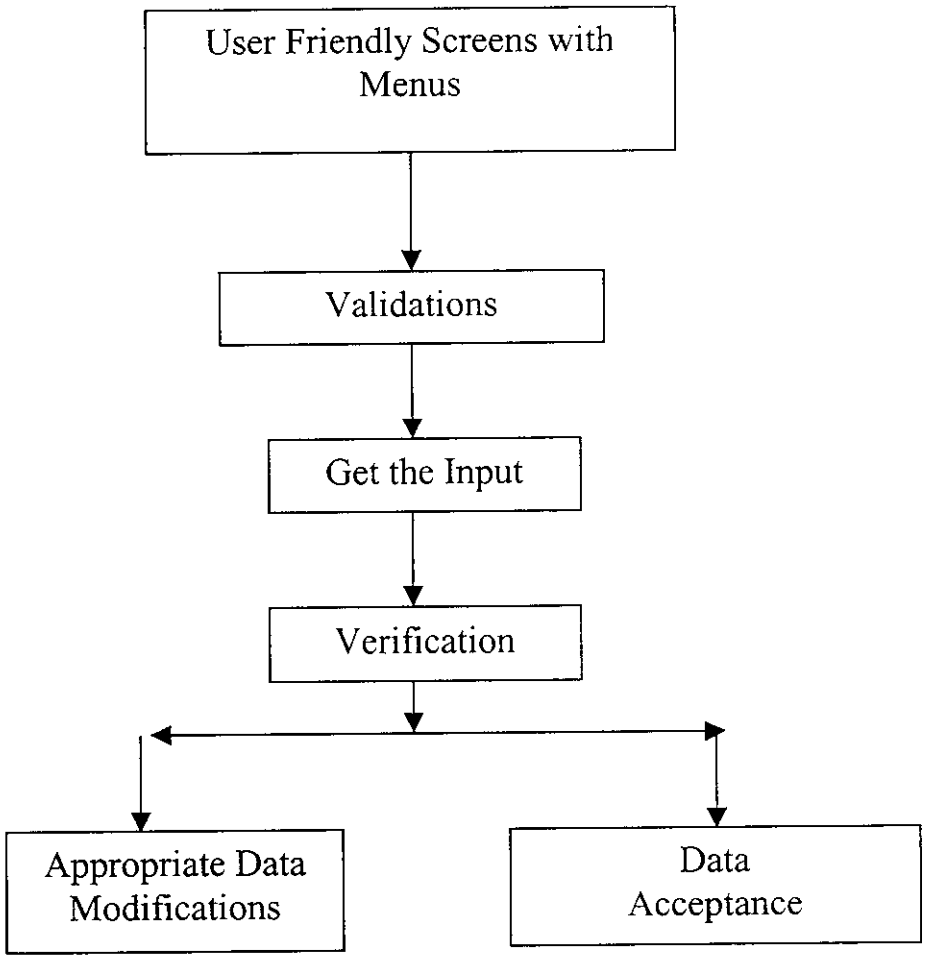
During application development, care has been taken to make the system user-friendlier. It is achieved using the select options, check boxes, ratio buttons, etc., so it restrict the user not to enter the unavailable data for maintaining the referential integrity.

Input Types:

The early activities of input design are to determine the nature of the input. The various types of data handled by this system are,

External Input:

They are prime input to the system. The different users supply these values. According to this system the inputs are from three different users.



The various inputs of different users are as follows; Members are needed to enter the following details to login into the application to access,

User ID – String

Password – String

The User ID Ranges,

User	**Id Ranges**
System Admin	sys
Broker	a-e (1- 999999)
Parties/Agents	f-o (1-999999)
Public	p-z (1-999999)

The input design covers all the master maintainence of the system. Module #1 is discussed below,

Module #1: Master Maintenance:

Member Details:

To get the access permission from the System Administrator, brokers and public as to fill their details in the registration form. The various details required in the form are

Password – String

Name – String

Address – String

City and Pin code - String

Phone Number – String

Fax Number – String

Email id – String

Type – String (Broker/Public)

Party/Agent Details:

The broker maintain the Master Details of the parties, the various details needed are:

Name – String

Address – String

City and Pin code - String

Phone Number – String

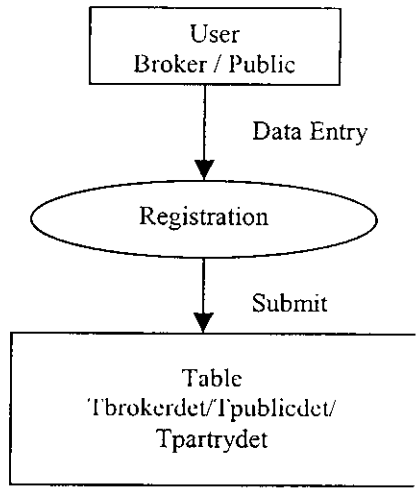
Fax Number – String

Owner Name – String

Contact Person – String

Email id – String

Type – String (Agent/Party)

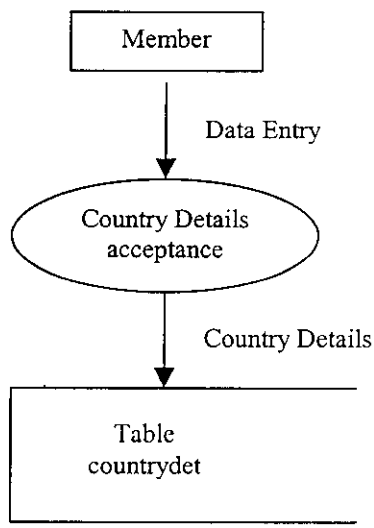


Countries Details:

The various countries details involve in the quota transactions are maintained.

Country Name – String

Alias Name – String

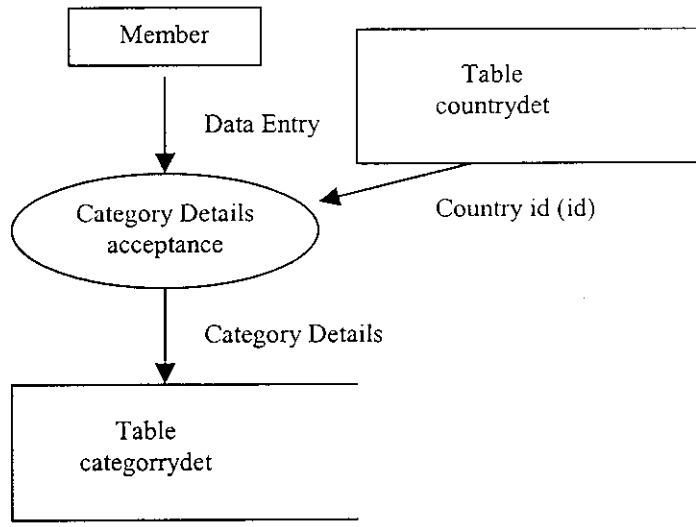


Categories:

The various category details with respect to country involve in the quota transactions are maintained.

Category Name – String

Country Name – String



Quota Submission:

Members like Brokers, Parties, Agents and Public can submit their available Quota Licence to other users.

Inputs:

Date – Auto

Country – Select from Options

Category – Select from Options

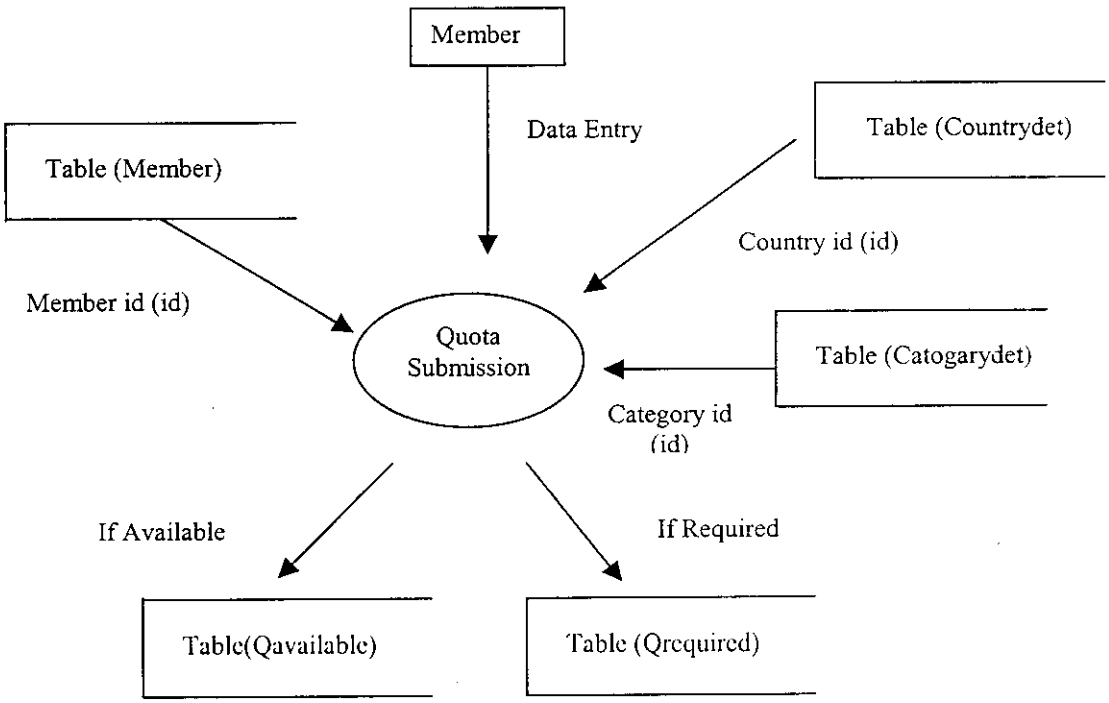
License Number - String

Quantity – Integer

Premium Value (0ffered) – DOUBLE

Narration – String

Users – Select from Options (brokers/public/party/agent)



Purchase:

Broker purchase the quota license from the seller. He has to enter these details in the purchase receipt for maintaining the quota stock. The various inputs are

Inputs:

Ref No – Auto

Date – Auto

Select from Options - Outright/ 3rd Party

Select from Options- Direct / Agent

TEC / QC No. – Input (Alphanumeric)

Country – Select from Options

Category – Select from Options

Transferor – Select from Options

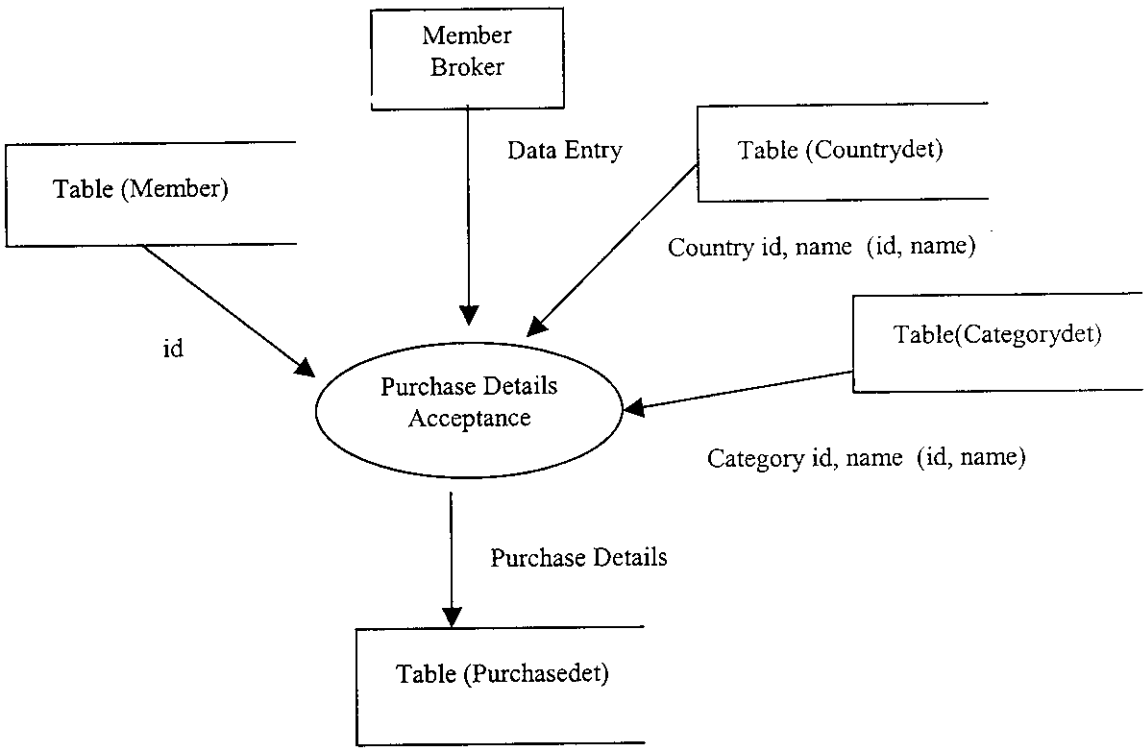
Quantity – Integer

Premium Value - Double

Total Amount - Double

Premium on Tec - Double

Narration – String



Sales:

Brokers sell their quota license to the buyer. He enters the details in the sales receipt for maintaining the quota stock. The various inputs are

Ref No – Auto

Purchase Ref No – Select from Options

Date – Auto

Outright/ 3rd Party – Select from Options

TEC / QC No. – Select from options

Direct / Agent - Select from options

Country – Auto

Category – Auto

Transferor – Auto

Transferee – Select from Options

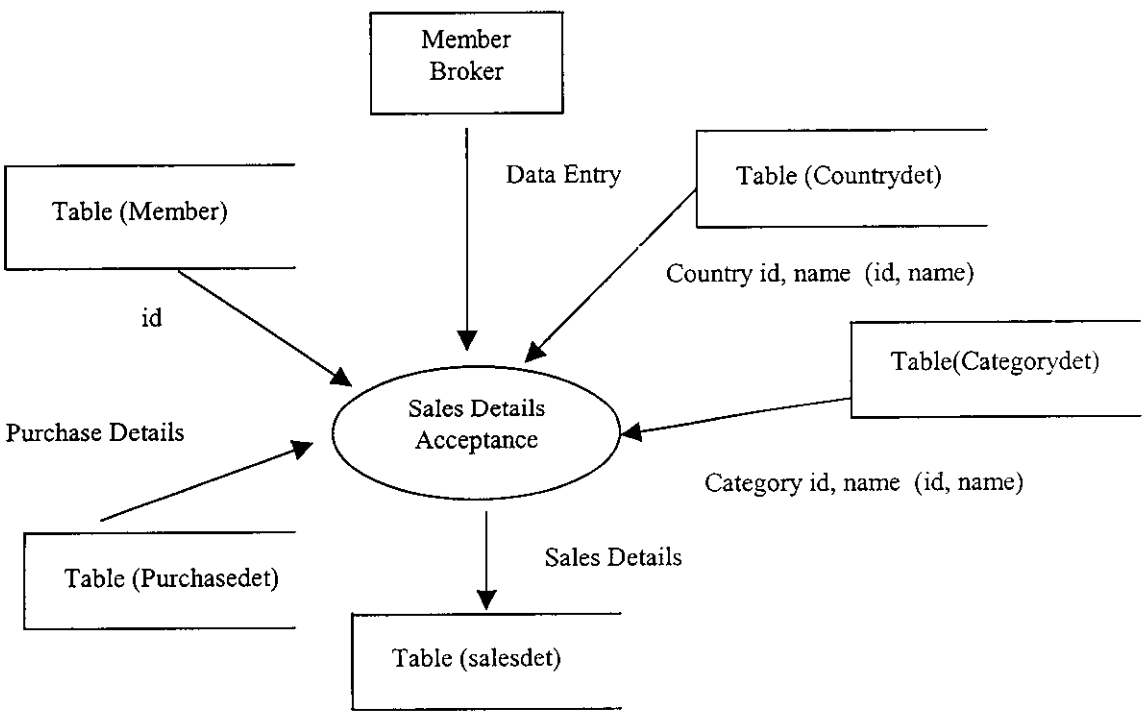
Quantity – Integer

Premium Value – Double

Total Amount – Double

Premium on Tec – Double

Narration – String



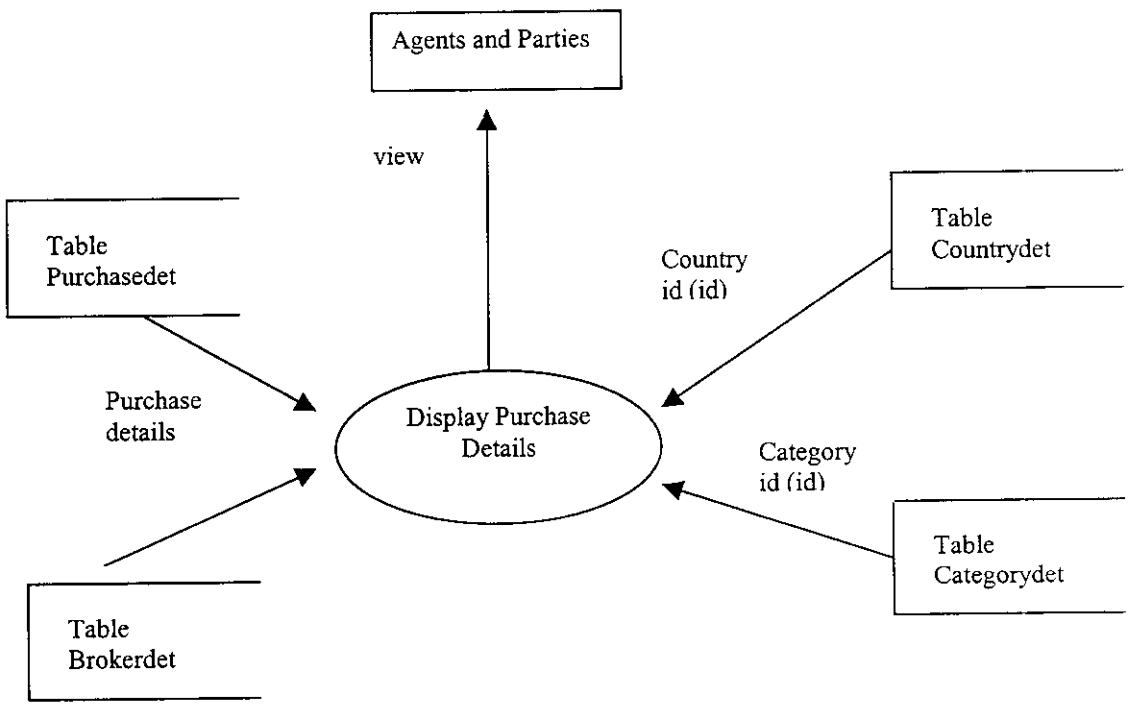
These are the various necessary inputs for maintaining all the master details.

4.2 OUTPUT DESIGN:

It concentrates on displaying the details according to the user type and their needs. To increase the user interaction, components in the screens are user friendly. Module #2 Transaction Status Display, involves various displaying activities used to view the current transaction details.

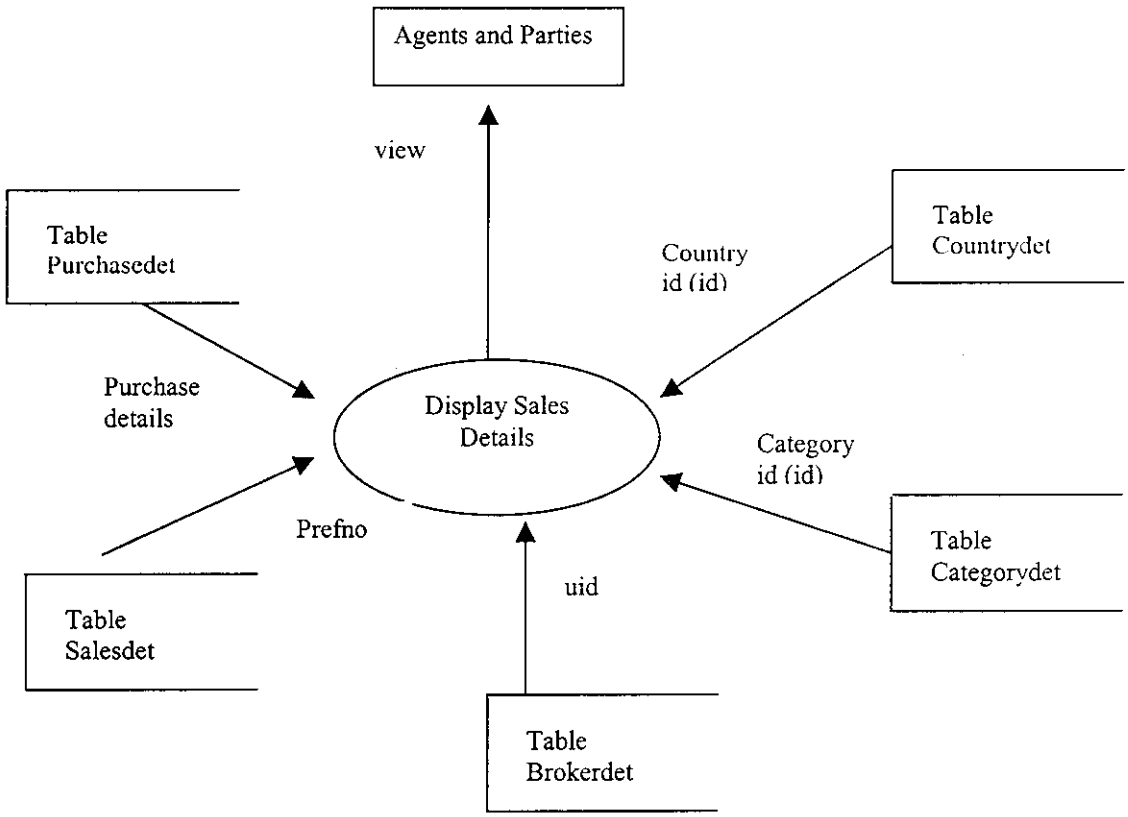
Purchase view:

Parties and agents could see their purchase details with his broker, only if the broker gives the visibility.



Sales view:

Parties and agents could see their sales details with his broker, only if the broker gives the visibility.



4.3 DATABASE DESIGN:

SQL Server, a powerful RDBMS, forms the core of the system. The details involved with the database design are given below:

System Administrator:

Description:

This table is used to store the details used for the system administrator for various administrator activities.

Table Name: **admdet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Pwd	VARCHAR	20	Password
Nbroker	VARCHAR	1	Next character for Sequence Creation
Nparty	VARCHAR	1	Next character for Sequence Creation
Npublic	VARCHAR	1	Next character for Sequence Creation
Bdrop	TINYINT	2	Flag to create a new sequence
Pdrop	TINYINT	2	Flag to create a new sequence
Pudrop	TINYINT	2	Flag to create a new sequence
Hits	INT	4	Page Hit Counter

Broker Details:

Description:

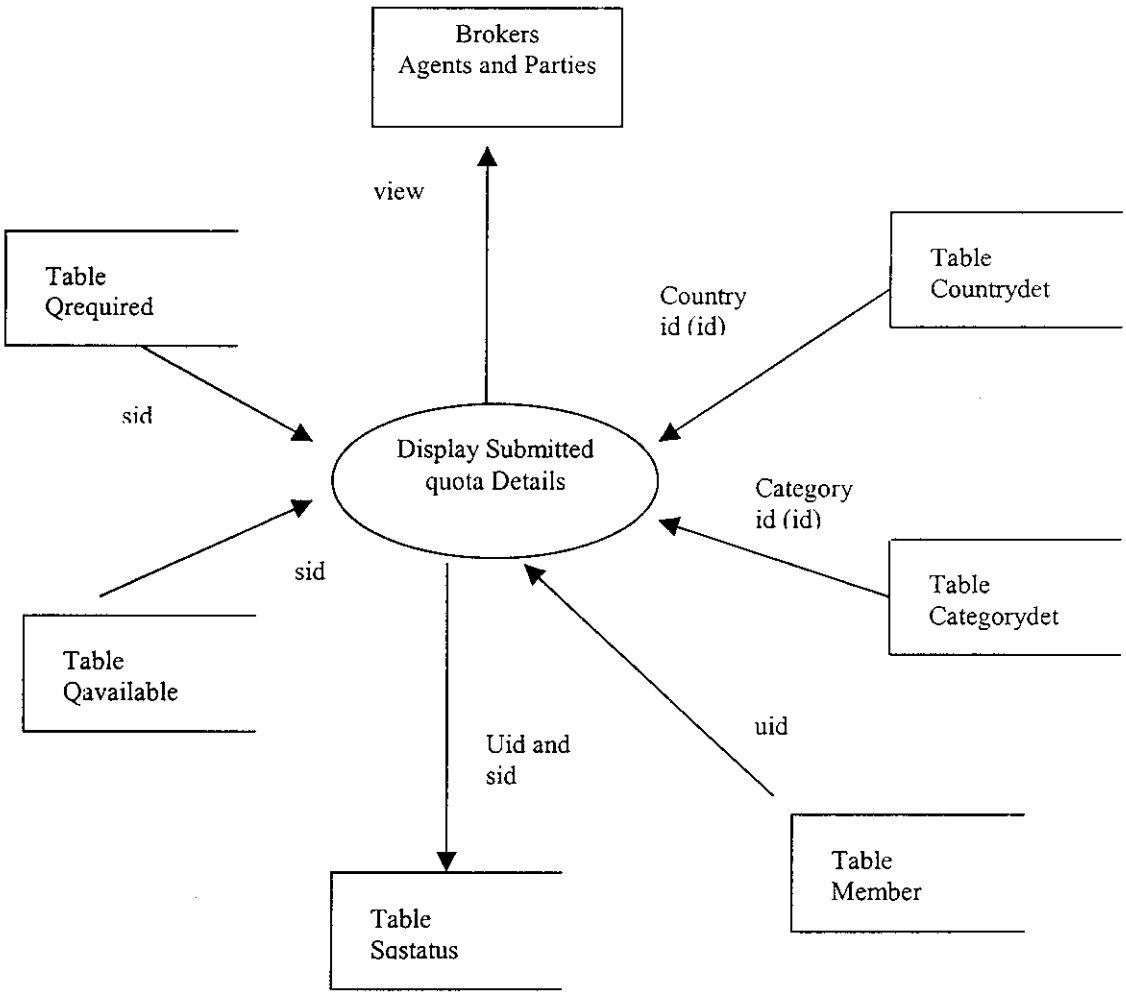
This table is used to store the details of the brokers, requested for getting the accessibility rights from the system administrator.

Table Name: **Tbrokerdet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Pwd	VARCHAR	15	Password
Name	VARCHAR	25	Broker's name
Add1	VARCHAR	30	Address
Add2	VARCHAR	30	Address
City	VARCHAR	15	City Name
Pin	VARCHAR	10	Pin code
Phno1	VARCHAR	15	Phone Number
Phno2	VARCHAR	15	Phone Number
Fax	VARCHAR	15	Facsimile
Eid	VARCHAR	30	E- mail ID
Oname	VARCHAR	25	Owner Name
Cname	VARCHAR	25	Contact Person
Valid	VARCHAR	1 BYTE	VALID DELETE / COPY)
Acc	BIT	1 BYTE	ACCESSIBILITY RIGHT (0 / 1)
Id	INT	4 BYTES	USER ID –INDENTITY

Submitted Quota view:

Any user could see the quotas details submitted to buy or sell by various members.



Description:

This table is used to store the details of the brokers, after getting USER ID and the accessibility rights from the system administrator.

Table Name: **Brokerdet**

FIELD	DATA TYPE	LENGTH	DESCRIPTION
Bid **(P)**	VARCHAR	7	Broker ID
Pwd	VARCHAR	15	Password
Name	VARCHAR	25	Broker's name
Add1	VARCHAR	30	Address
Add2	VARCHAR	30	Address
City	VARCHAR	15	City Name
Pin	VARCHAR	10	Pin code
Phno1	VARCHAR	15	Phone Number
Phno2	VARCHAR	15	Phone Number
Fax	VARCHAR	15	Facsimile
Eid	VARCHAR	30	E- mail ID
Oname	VARCHAR	25	Owner Name
Cname	VARCHAR	25	Contact Person
Accrgt	TINYINT	2	ACCESS RIGHT(Enable/Disabled)
Hits	INT	4	Number Of HITS

Public Details:

Description:

This table is used to store the details of the public, requested for getting the accessibility rights from the system administrator.

Table Name: **Tpublicdet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Pwd	VARCHAR	15	Password
Name	VARCHAR	25	Public's name
Add1	VARCHAR	30	Address
Add2	VARCHAR	30	Address
City	VARCHAR	15	City Name
Pin	VARCHAR	10	Pin code
Phno1	VARCHAR	15	Phone Number
Phno2	VARCHAR	15	Phone Number
Fax	VARCHAR	15	Facsimile
Eid	VARCHAR	30	E- mail ID
Oname	VARCHAR	25	Owner Name
Cname	VARCHAR	25	Contact Person
Valid	TINYINT	1 BYTE	VALID (DELETE / COPY)
Acc	TINYINT	1 BYTE	ACCESSIBILITY RIGHT (0 / 1)
Id	INT	4 BYTES	USER ID –INDENTITY

Description:

This table is used to store the details of the public after getting the USER ID and accessibility rights from the system administrator.

Table Name: **Publicdet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Id **(P)**	VARCHAR	7	Public's ID
Pwd	VARCHAR	15	Password
Name	VARCHAR	25	Public's name
Add1	VARCHAR	30	Address
Add2	VARCHAR	30	Address
City	VARCHAR	15	City Name
Pin	VARCHAR	10	Pin code
Phno1	VARCHAR	15	Phone Number
Phno2	VARCHAR	15	Phone Number
Fax	VARCHAR	15	Facsimile
Eid	VARCHAR	30	E- mail ID
Oname	VARCHAR	25	Owner Name
Cname	VARCHAR	25	Contact Person
Type	BOOLEAN	2	0/1-Agent/Party
Accrgt	TINYINT	2	ACCESS RIGHT(Enabled/Disabled)
Hits	INT	4	NO. OF HITS

Parties Details:

Description:

This table is used to store the details of the parties and agents, temporarily before creating its USER ID.

Table Name: **Tpartydet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Bid	VARCHAR	7	BROKER ID
Pwd	VARCHAR	15	Password
Name	VARCHAR	25	Public's name
Add1	VARCHAR	30	Address
Add2	VARCHAR	30	Address
City	VARCHAR	15	City Name
Pin	VARCHAR	10	Pin code
Phno1	VARCHAR	15	Phone Number
Phno2	VARCHAR	15	Phone Number
Fax	VARCHAR	15	Facsimile
Eid	VARCHAR	30	E- mail ID
Oname	VARCHAR	25	Owner Name
Cname	VARCHAR	25	Contact Person
Valid	TINYINT	1 BYTE	VALID (DELETE / COPY)
Acc	BIT	1 BYTE	ACCESSIBILITY RIGHT (0 / 1)
Id	INT	4 BYTES	USER ID –INDENTITY

Description:

The brokers for the quota transaction use this table to store the details of the parties and agents permanently.

Table Name: **Partydet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Bid **(F)**	VARCHAR	7	Broker's ID
Pid **(P)**	VARCHAR	7	Party's ID
Pwd	VARCHAR	15	Password
Name	VARCHAR	25	Broker's name
Add1	VARCHAR	30	Address
Add2	VARCHAR	30	Address
City	VARCHAR	15	City Name
Pin	VARCHAR	10	Pin code
Phno1	VARCHAR	15	Phone Number
Phno2	VARCHAR	15	Phone Number
Fax	VARCHAR	15	Facsimile
Eid	VARCHAR	30	E- mail ID
Oname	VARCHAR	25	Owner Name
Cname	VARCHAR	25	Contact Person
Type	BOOLEAN		0/1-Agent/Party
Accrgt	TINYINT	2	ACCESS RIGHT
Hits	INT	4	NO. OF HITS

Country Details:

Description:

Different users use this table to store the details of the country for quota submissions and transactions.

Table Name: **Countrydet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Coid **(P)**	INT	4	Country ID
Uid	VARCHAR	7	Member id
Name	VARCHAR	25	Name
Alias	VARCHAR	5	Alias Name

Category Details:

Description:

Different users use this table to store the details of the category details with respect to its country for quota submissions and transactions.

Table Name: **Categorydet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
Caid **(P)**	INT	4	Categories ID
Uid	VARCHAR	7	Member id
Name	VARCHAR	25	Name
Coid **(F)**	INT	4	Country ID

Purchase Details:

Description:

To maintain the quota transaction details broker keep the purchase details by entering the purchase receipt. If the broker give the accessibility right to that receipt then party or agent could view his current transactions with that broker.

Table Name: **Purchasedet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
BID (F)	STRING	7	Broker ID
PREFNO(P)	SMALLINT	2 BYTE	Purchase Reference No.
YEAR	SMALLINT	2 BYTE	Year
PDATE	DATETIME	2 BYTE	Purchase Date
TYPE	TINYINT	1 BYTE	0/1-Direct/Agent
QNO	STRING	20	TEC / QC Number
COID (F)	INT	4 BYTE	Country ID
CAID (F)	INT	4 BYTE	Category ID
PID (F)	STRING	7	Party's ID
QTY	DECIMAL	4 BYTE	Quantity
PRM	DECIMAL	4 BYTE	Premium Value
AMT	DECIMAL	4 BYTE	Amount
TPRM	DECIMAL	4 BYTE	TEC Premium
BQTY	DECIMAL	4 BYTE	Balance Quantity
NTN	STRING	50	Narration
ACC	SMALLINT	2	Visibility to the seller (0/1)

Sales Details:

Description:

To maintain the quota transaction details broker keep the purchase details by entering the purchase receipt. If the broker give the accessibility right to that receipt then party or agent could view his current transactions with that broker.

Table Name: **Salesdet**

FIELD	DATATYPE	LENGTH	DESCRIPTION
BID **(F)**	STRING	7	Broker ID
SREFNO**(P)**	INTEGER	4	Sales Reference No.
SDATE	SMALL DATETIME	2	Sales Date
PREFNO **(F)**	INT	4	Purchase Reference No.
YEAR	SMALLINT	2	Purchase Year
TYPE	TINYINT	1	0/1-Direct/Agent
QNO	STRING	20	TEC / QC Number
COID **(F)**	INT	4	Country ID
CAID **(F)**	INT	4	Category ID
SID **(F)**	STRING	7	Seller's ID
BID **(F)**	STRING	7	Buyer's ID
QTY	DECIMAL	4	Quantity
PRM	DECIMAL	4	Premium Value

AMT	DECIMAL	4	Amount
TPRM	DECIMAL	4	TEC Premium
NTN	STRING	50	Narration
ACC	SMALLINT	2	Visibility to the buyer(0/1)

Quota Submit:

Description:

Different users use this table to store the quota submission details. These quotas are available with that user and public to sell.

Table Name: **Qavailable**

FIELD	DATA TYPE	LENGTH	DESCRIPTION
Ssid**(P)**	INT	4	Identifier
Sid	VARCHAR	7	Broker/party/public ID's
Date	DATE	4	Date Of Submission
Coid **(F)**	INT	4	Country ID
Caid **(F)**	INT	4	Category ID
Qty	INT	4	Available Quantity
Licno	VARCHAR	20	Licence Number
Ntn	VARCHAR	50	Narration
Buser	TINYINT	2	Broker Accessibility Right
Puser	TINYINT	2	Party Accessibility Right
Auser	TINYINT	2	Agent Accessibility Right
Puuser	TINYINT	2	Public Accessibility Right

Description:

System monitors the various users who enquired the submitted quotas and store these details in the following table.

Table Name: Sqstatus

FIELD	DATA TYPE	LENGTH	DESCRIPTION
Sqs **(P)**	INT	4	Identifier(IDENTITY)
Sid **(F)**	INT	4	Submitted quota id
Uid **(F)**	VARCHAR	7	User id who enquired
Date	Date	4	Time and Date of Enquiry
Flay	BIT	2	Flay to check whether deleted (1/0)

Triggers:

Six Triggers are used for three transaction tables. It is used to create sequence number (Identity value) with alpha numeric and while transfer of data from transaction table to the master table.

Trigger 1,2,3:

These triggers used to check for the starting character of the USER ID. Drop SQL Statement is not allowed in the triggers, so the flag value is changed to true to drop the identity and add a new column of same name to regenerate the identity column through the program. We create triggers for each user detail transaction table.

Trigger 4,5,6:

These triggers are used to copy the values in the transaction tables into the master details automatically when the valid column is changed to 1.

4.4 PROCESS DESIGN:

The various inputs are processed according to the user's requirements. The various are processes described with the data flow diagram. Module #3 covers all the process design.

Module #3: This various sub modules are,

Issue of Membership

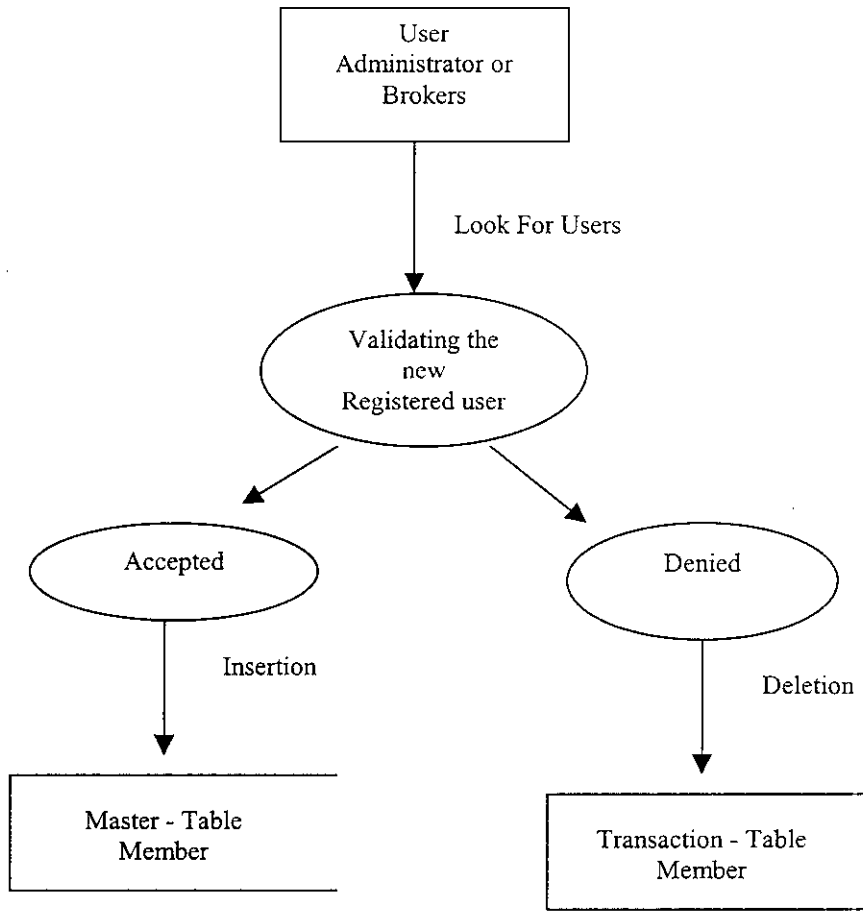
User Login:

User Rights – Administration:

Monitoring the Inquiring users:

Issue of Membership

System administrator validates the users (brokers and public) and gives a unique user id to every new user through mail. Brokers enter the party and agent details for his transactions. Both administrator and brokers take care of the accessibility rights of their users.


User
Administrator or
Brokers
Look For Users
Validating the
new
Registered user
Accepted
Denied
Insertion
Deletion
Master - Table
Member
Transaction - Table
Member

Description:

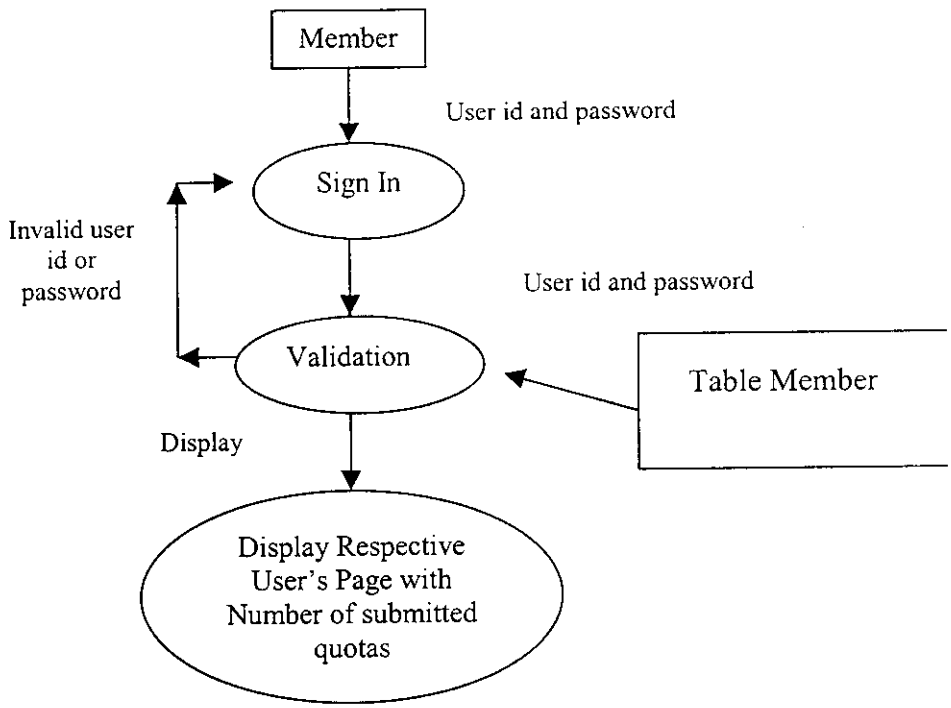
Different users use this table to store the quota submission details. These quotas are requested by a user from other members.

Table Name: Qrequest

FIELD	DATA TYPE	LENGTH	DESCRIPTION
Qrid **(P)**	INT	4	Identifier
Qid **(F)**	VARCHAR	7	Broker/Party/public ID's
Date	DATE	4	Date Of Submission
Coid **(F)**	INT	4	Country ID
Caid **(F)**	INT	4	Category ID
Qty	INT	4	Available Quantity
Ntn	VARCHAR	50	Narration
Buser	TINYINT	2	Broker Accessibility Right
Puser	TINYINT	2	Party Accessibility Right
Auser	TINYINT	2	Agent Accessibility Right
Puuser	TINYINT	2	Public Accessibility Right

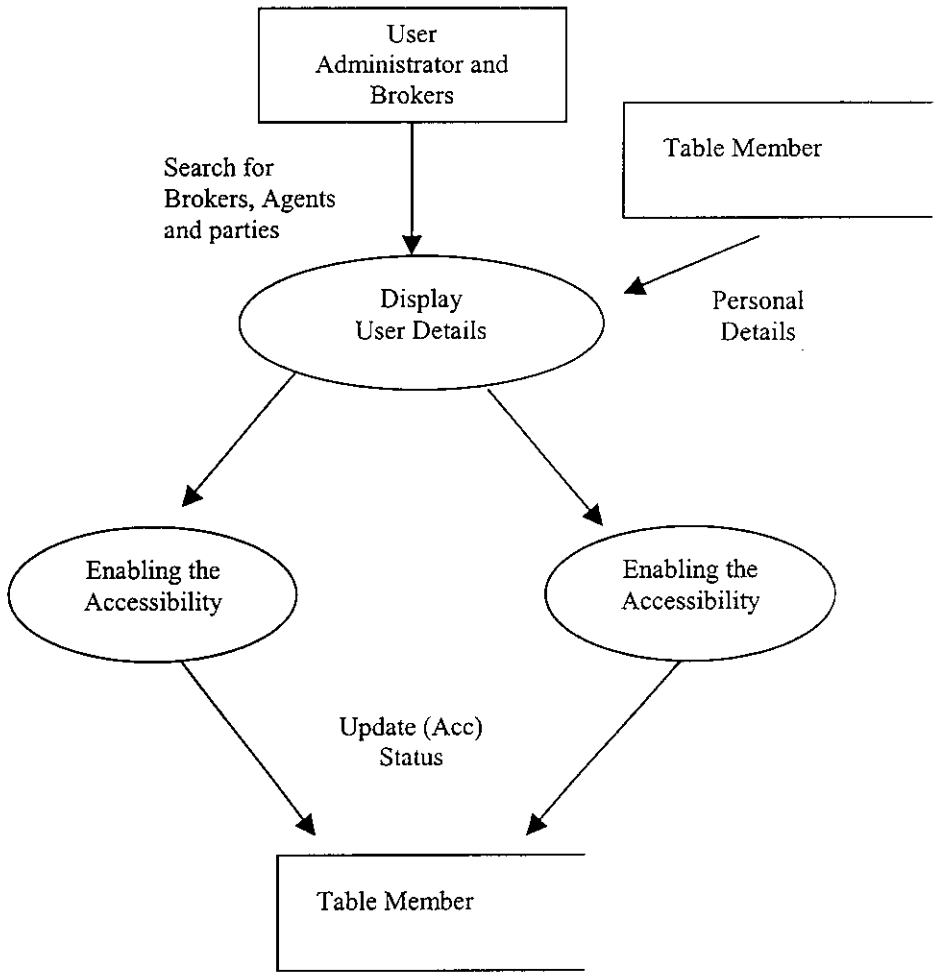
User Login:

As I specified early, the system changes it characteristics in displaying the details according to the user types.



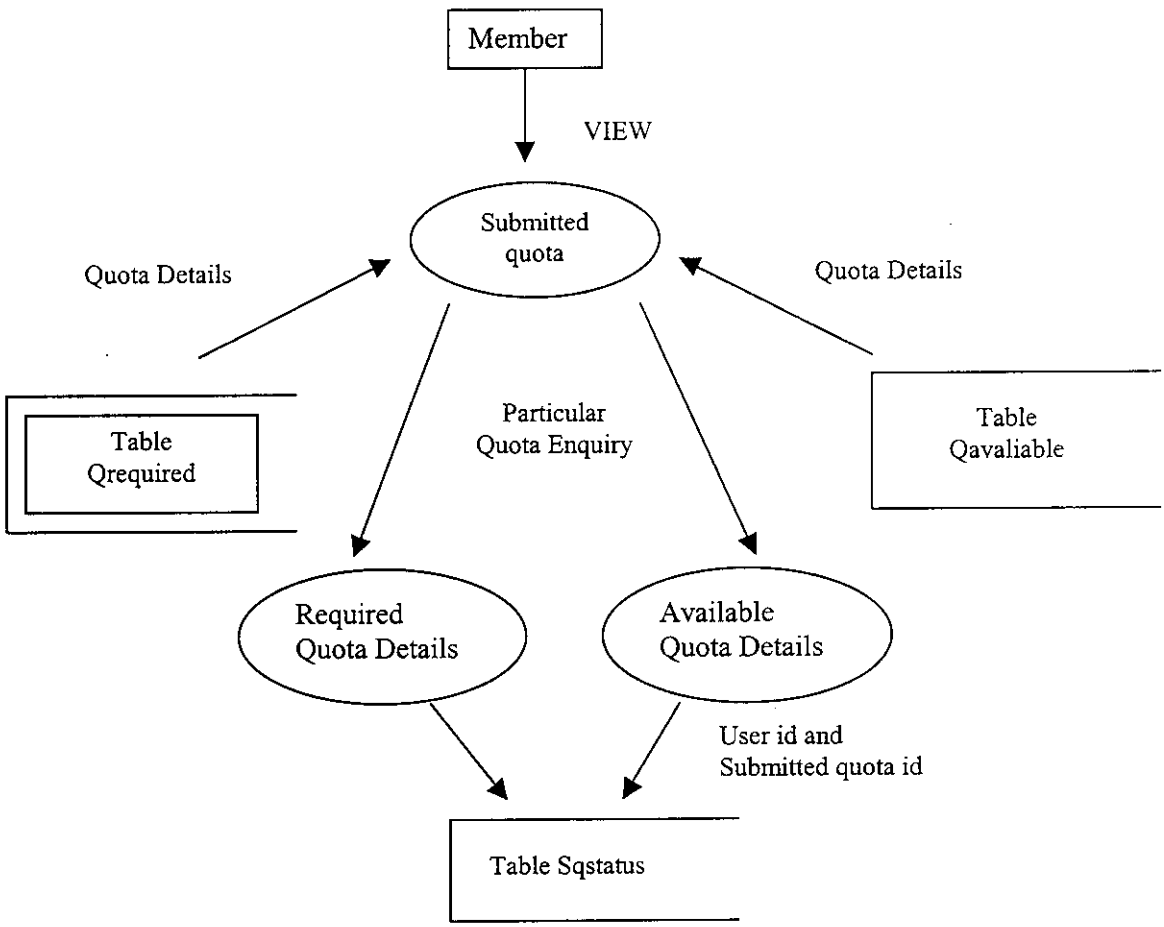
User Rights – Administration:

Administrator and Brokers administrates the user accessibility rights.



Monitoring the Enquiring users:

The quotas are submitted independently and the system monitors the various users who enquired the submitted quotas and stored the user details for helping the him to know the current market demand.



SYSTEM IMPLEMENTATION & TESTING

5 SYSTEM IMPLEMENTATION AND TESTING:

5.1 SYSTEM IMPLEMENTATION.

A crucial phase in the system development is the successful implementation of the new system. Implementation is the process of converting a new system design into an operational one. This involves creating computer compatible files to store the data, converting the data flow diagram into coding and documentation.

Implementation is the stage of the project when the theoretical design is turned into a working system. Implementation stage is carefully planned and controlled. Thus it can be considered to be most crucial stage in achieving a new successful system and in giving the users confidence that the new system will work and be effective. Implementation involves careful planning, investigation of the current system and its constraints on implementation, design of the methods to achieve the changeover, training of staff in the changeover procedures and evaluation of changeover methods. The first tasks is implementation planning, ie., deciding on the methods and time scale to be adopted. Once the planning has been completed, the major effort in computer department is to ensure that the programs in the system are working properly. At the same time the user department must concentrate on training user staff. When the staff has been trained, a full system test can be carried out, involving both the computer and clerical procedures.

This Quota Transaction system analysis and design is converted into implementation with the help of language coding. it is developed using an Object Oriented programming language, JAVA so the base modules are develop first and later it is continued to all the derived modules. This system is developed in the following order,

Using SQL SERVER tables and its respective triggers are created. Later client side HTML pages for user interactions are developed. Then validations are done simultaneously to reduce errors. Server side coding is started for converting the data into information.

Since these developed modules are the part of the entire system, it is implemented in the local network to see its functionality. System administrator module and master maintenance modules are independent when all other module are interdependent to other modules.

Documentation:

Normally documentation occurs after the end of every stage of the software lifecycle. After the testing is completed, the whole system must be documented and must be presented in a readable form. This is to ensure that if any corrections, updations and manipulations can to be performed in the future, the users would find no problem in performing those changes. Documentation is also prepared for the source code, report generation programs, tables that are used to construct the database, forms used for the screen formats etc.

5.2 SYSTEM TESTING:

Only System testing certifies the success of the system functioning. The system is tested for the following,

Input Validations

Referential Integrity Test

Sequence Flow of data Test.

System testing makes a logical assumption that if all the parts of the system are correct, the system will be successfully achieved. The objective of testing is to discover errors. To fulfill these objectives a series of tests are planned and executed. This is the last opportunity to correct any possible flaws in the developed system. Software testing includes selection tests data that have more probability of finding errors.

The first step in system testing is to develop a plan that tests all the aspects of the system. Completeness, correctness, reliability and maintainability of the software are to be tested for the best quality assurance and assure that the system meets the specification and requirements of the user. It is tested by the following phases.

Module Testing:

Each individual programs module is tested for any possible errors. They were also tested for specification, ie., to see whether they are working as per what the program should do and hoe it should perform under the various conditions.

Concurrence Testing:

Since the system is a multi-user it was tested for concurrence problems. The system worked perfectly since the table locking and other security measures were taken care by the database itself.

Login Testing:

The login process was tested with both authorization and authorization. Access was denied for invalid login ids and incorrect passwords. Passwords were changed and addition and deletions of users were done.

Insert, Delete And Update Testing:

The insertion, deletion and updations are tired on all tables in the database. Checking is done to see whether the corresponding entries were made in the different tables when a new record was created. The system should avoid the disallowed attempts.

Display Testing:

The display methods are tested since the data displayed is much important. The different user enters the data in different modules and screens and is checked whether it is stored in the right position. The data should display in the expected place.

In Unit Testing each individual programs are tested with test data. The outputs as per the requirements were found satisfactory. After integrating the entire modules the testing team does both the Black box testing and White box testing. Even though the numbers of users are more and used in different environment, the system is developed in a platform independent language so it is error free.

If this is an informative static page then we could allow the user to get into any subfolders. But in this system other than home page all other pages are fully secured. So during each sub links, sessions validate the user id for making it fully secured. Even though JavaScript is used for Client Side validation, to reduce the constraints on the user some validations are avoided so these null values also tested.

CONCLUSION & SCOPE FOR FUTURE DEVELOPMENT

6 CONCLUSION

Thus as per the Required Specification, the system is successfully developed with user friendly and make the users easy. The design and development of such real time B2B portal concerned with Web Design and publishing has been really a wonderful experience for me. It increases my programming skills and gained immense knowledge on the web designing and exposed in scripting environment. Different users could register and become its member. The different members could do their functions according to their requirement independently.

7 SCOPE OF FUTURE DEVELOPMENT.

Still now the system is not planned for a pay site. So whenever the registered user is a valid one then he got the accessibility rights. In future when the hit increases, then we could increase the hits on every page and also the charges may be collected according to the pages he had visited.

User id could be send automatically through emails. Some profitable steps could be taken by including the dynamically changing advertisements in various pages.

Even it could be converted from E-Commerce Site to M-Commerce Site. So residing in the remote place the user could know the quota enquiry status and transaction status.

BIBLIOGRAPHY

8 BIBLIOGRAPHY

- ✓ E.Stephen Mack, Janan Platt, ***HTML 4.0 No Experience Required***, BPB Publication, New Delhi, First Indian Print, Edition 1998.
- ✓ Robert Orfali, Dan Harkey, ***Client/Server Programming with JAVA & CORBA***, Shroff Publishers & Distributors Pvt Ltd, Calcutta, I Indian Reprint, Edition – 1998.
- ✓ Jason Hunter with William Crawford, ***JAVA Servlet Programming***, Shroff Publishers & Distributors Pvt Ltd, Calcutta, I Indian Edition – March, 1999.
- ✓ Patrick Naughton, Herbert Schildt, ***JAVA 2, The Complete Reference***, Tata McGraw-Hill Publishing Company Ltd, New Delhi, Indian Reprint, Edition – Third 1999.
- ✓ Dusan Petkovic, ***SQL SERVER 7, A Beginner's Guide***, Tata McGraw-Hill Publishing Company Ltd, New Delhi, Indian Reprint, Third Edition 1999.
- ✓ James Goodwill, ***Pure JSP Java Server Page***, TechMedia, New Delhi, I Indian Edition, 2000.
- ✓ Roger S. Pressman, ***Software Engineering***, McGraw Hill International, New Delhi Fourth Edition, 1997.

Web Sites:

http://developer.irt.org

http://developer.java.sun.com

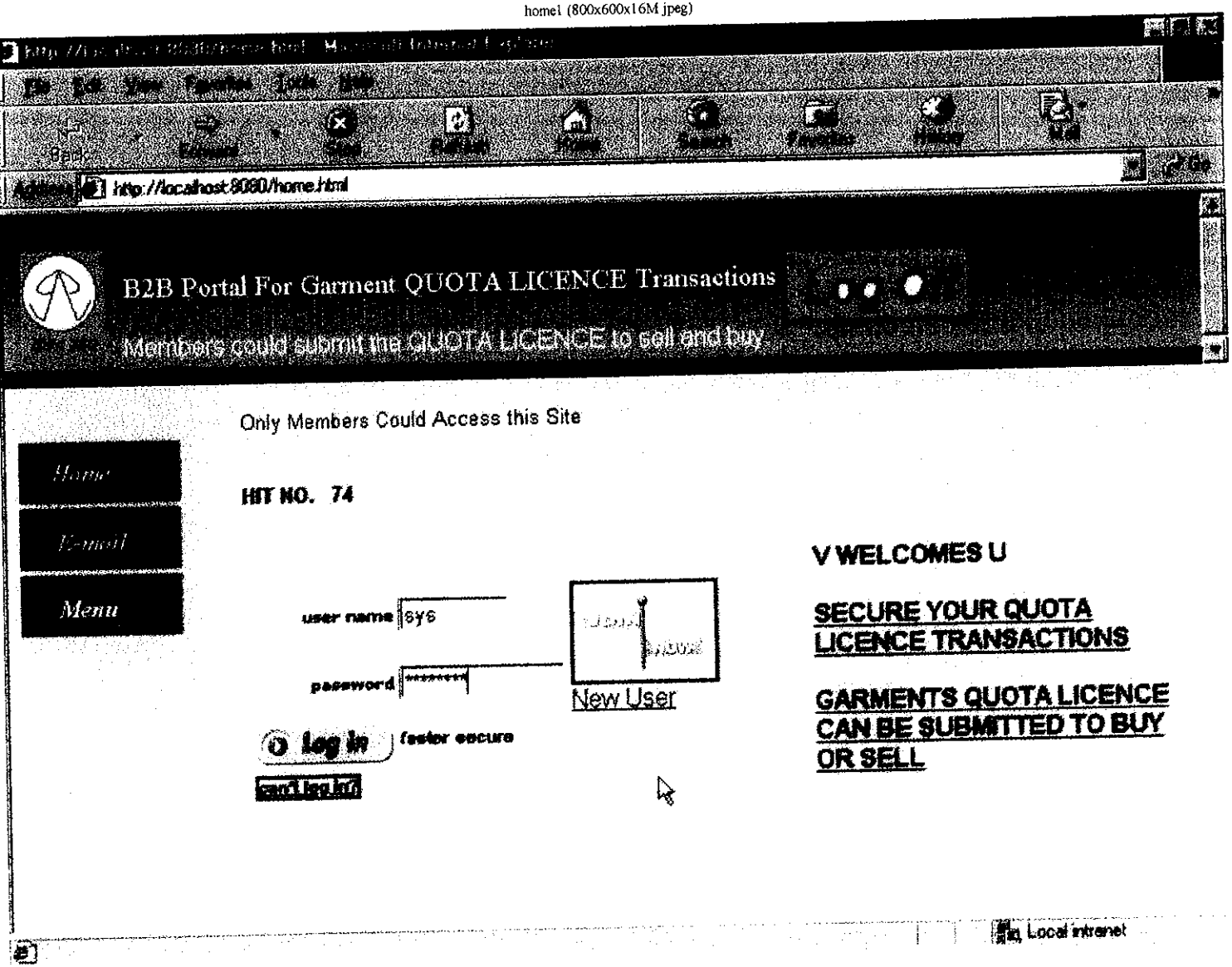
www.weblogic.com

www.javascript.com

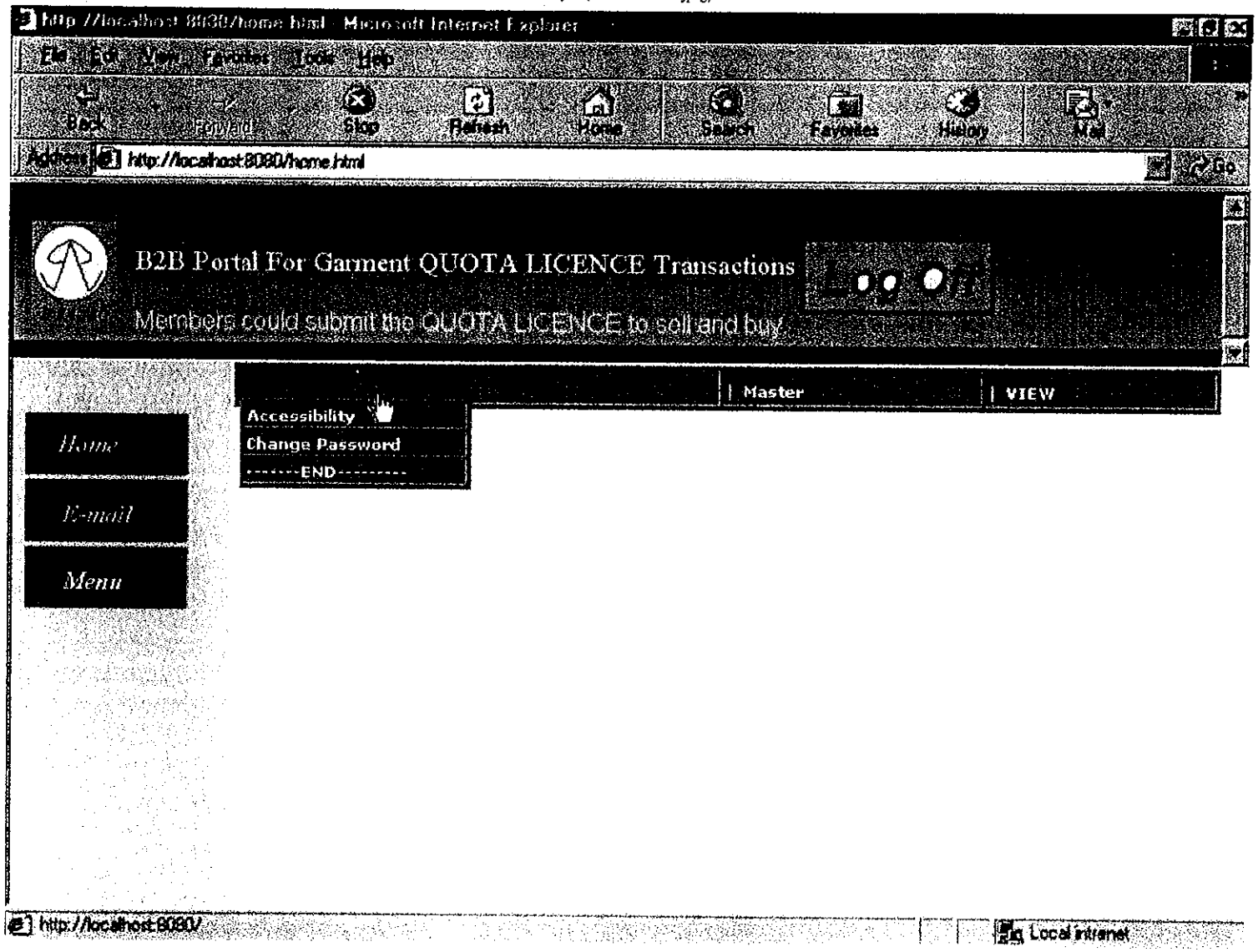
www.apl.jhu.edu

APPENDICES

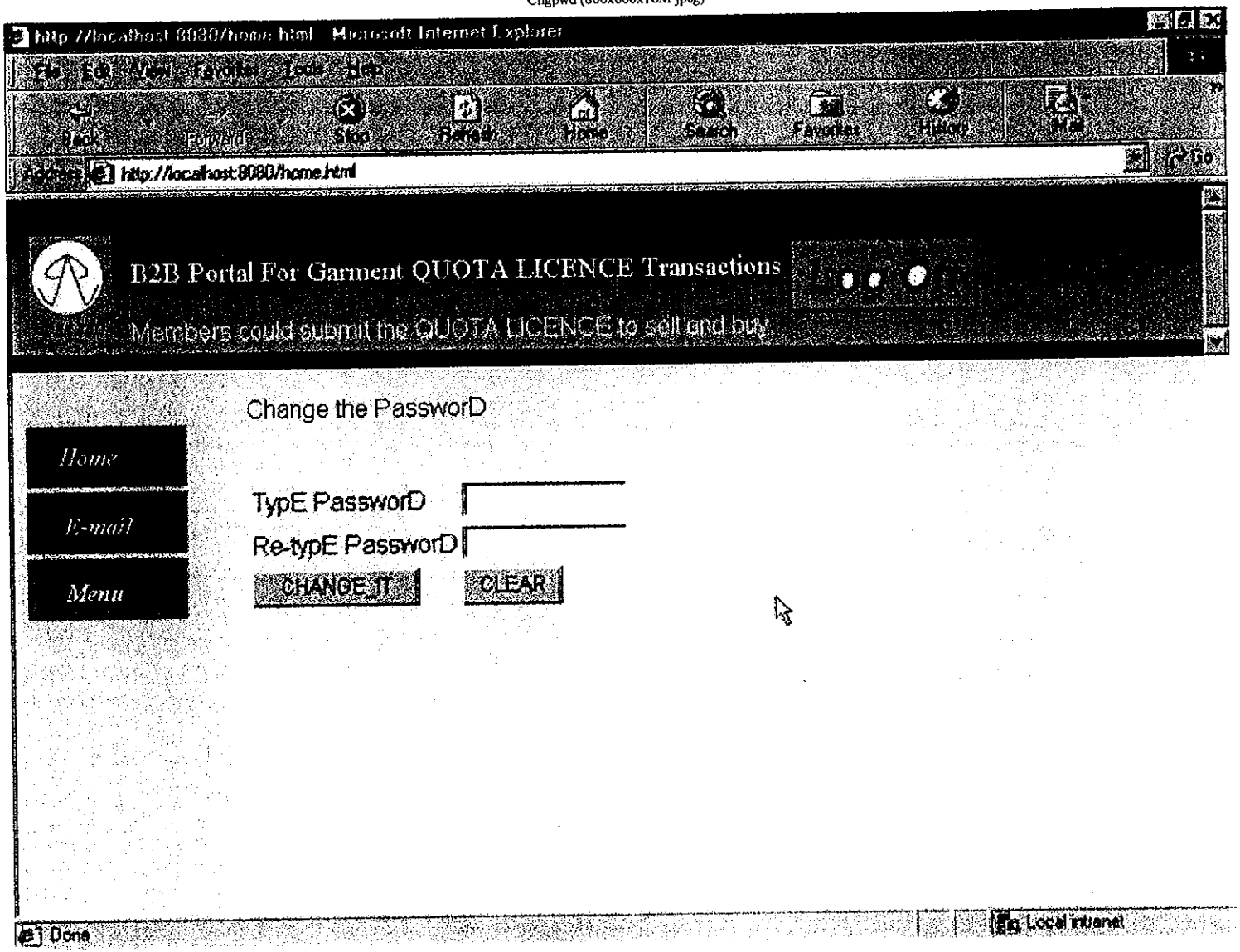
home1 (800x600x16M jpeg)



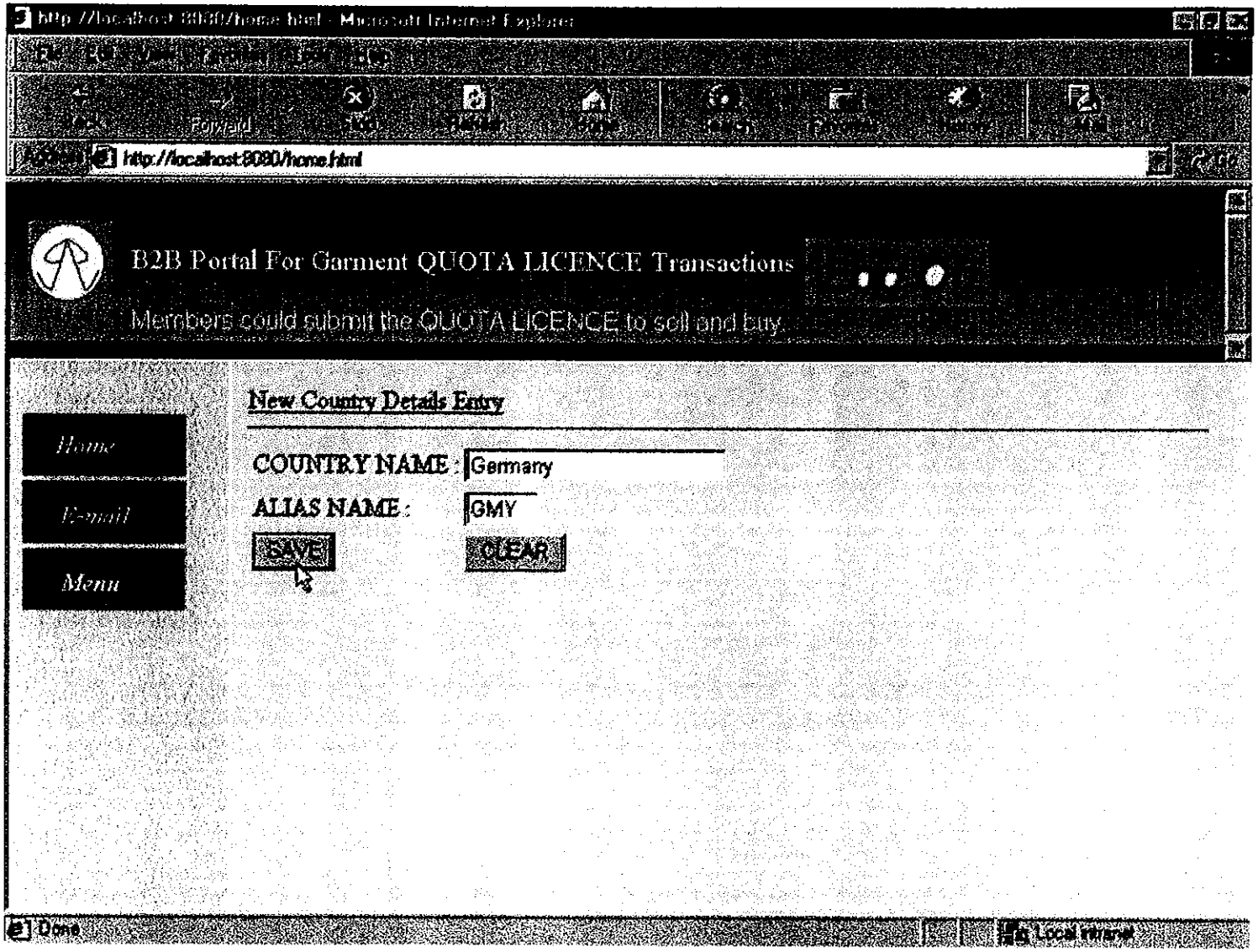
sys1 (800x600x16M jpeg)

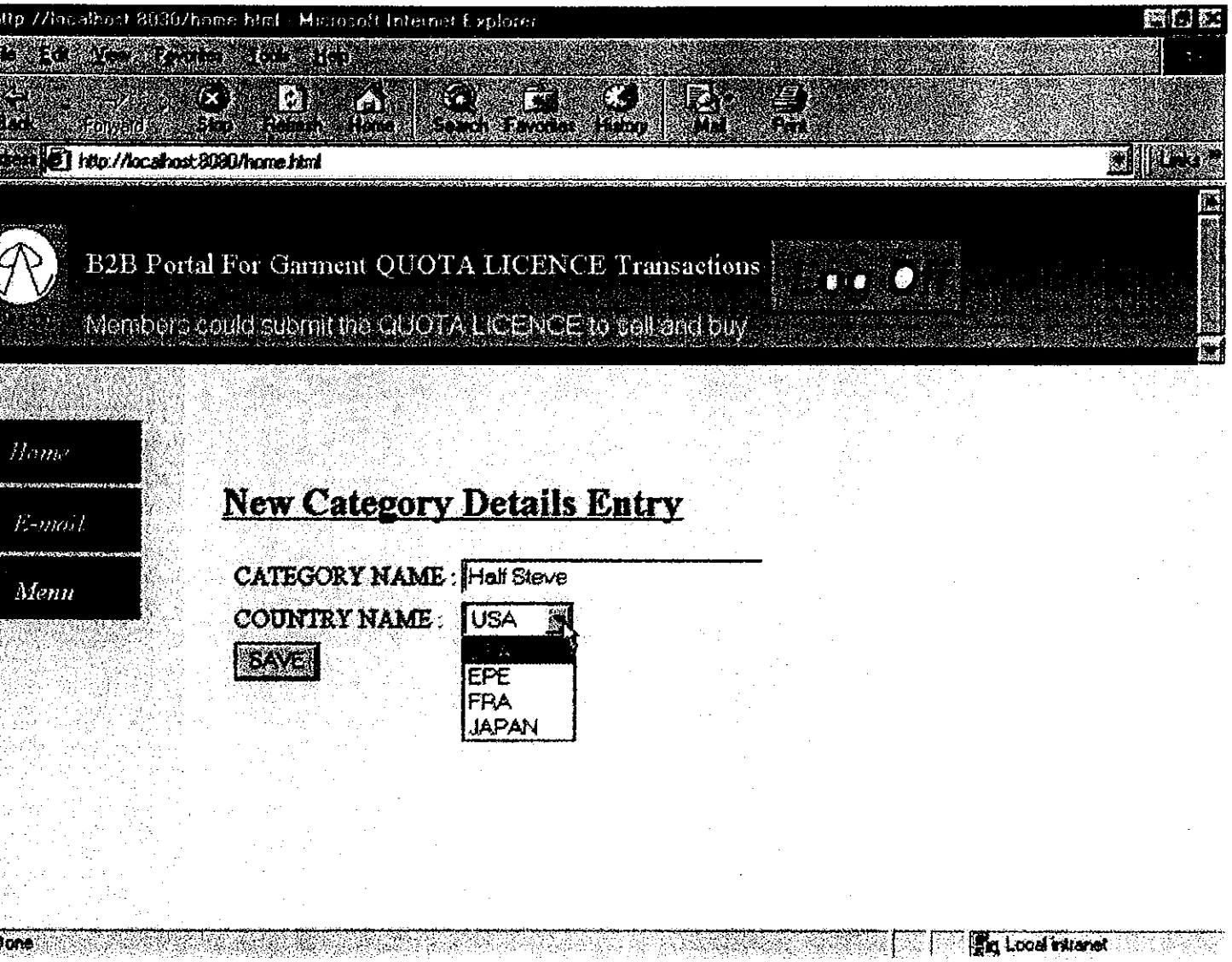


Chgpwd (800x600x16M jpeg)

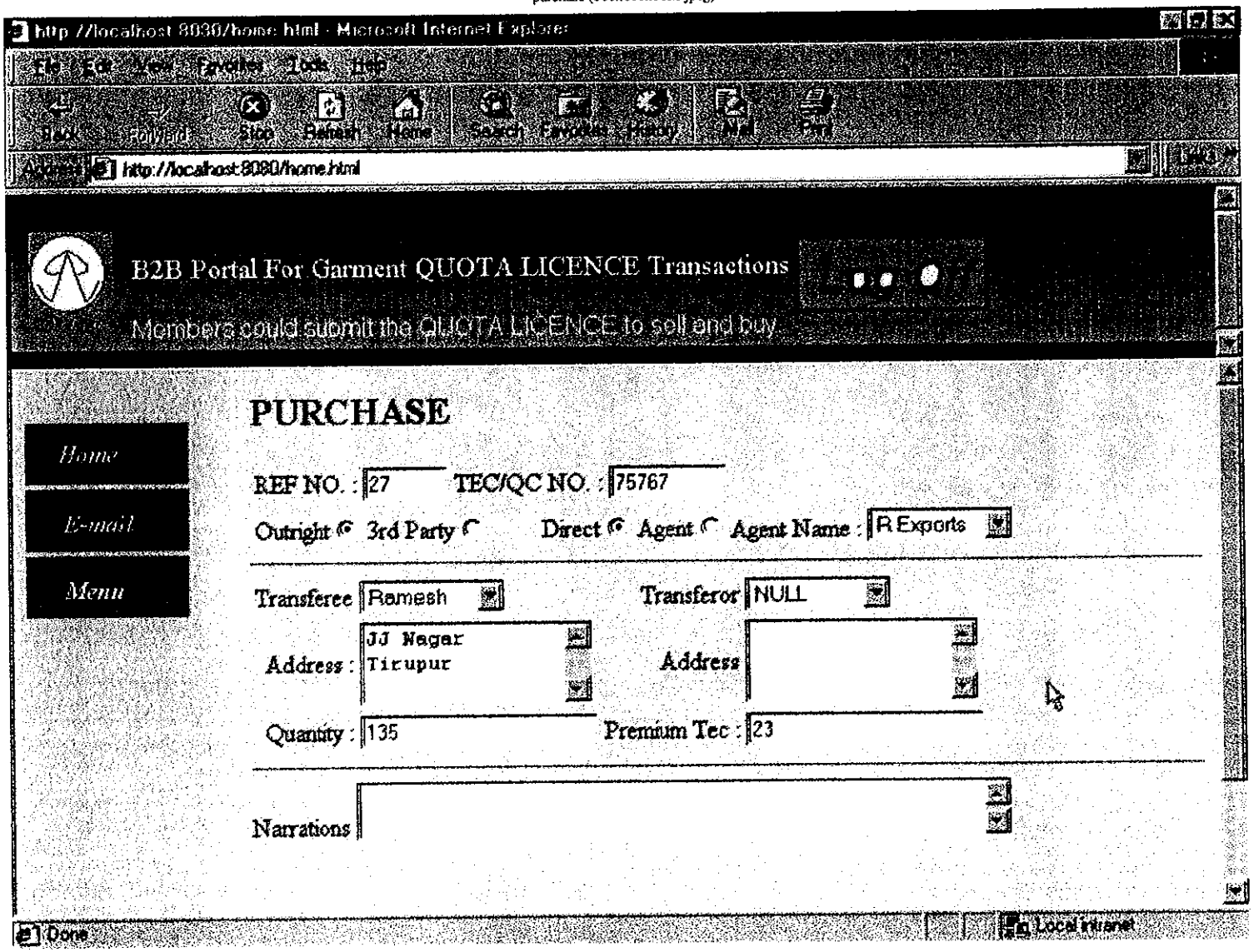


newcountry (800x600x16M jpeg)

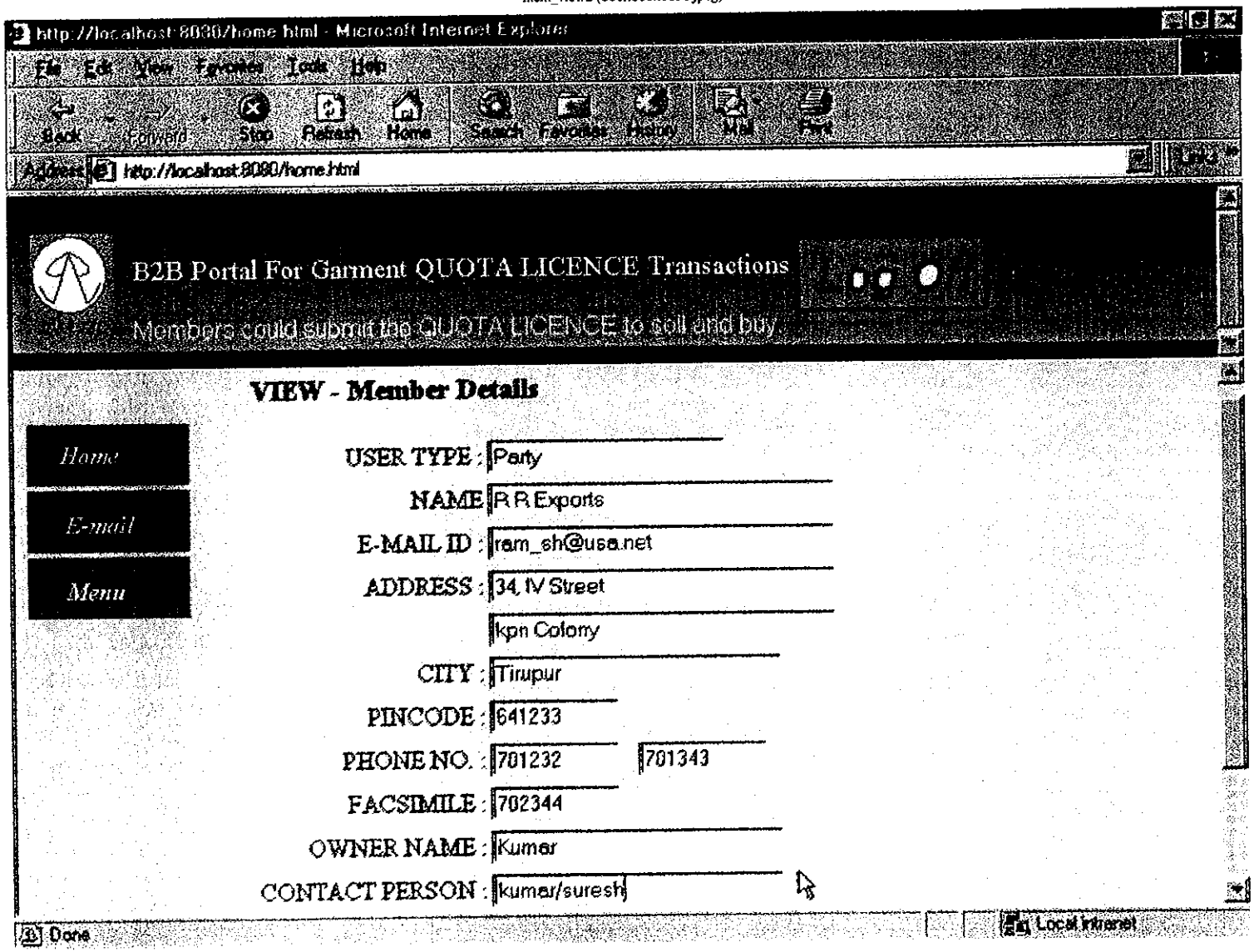



http://localhost:8080/home.html - Microsoft Internet Explorer
http://localhost:8080/home.html
B2B Portal For Garment QUOTA LICENCE Transactions
Members could submit the QUOTA LICENCE to sell and buy
Home
E-mail
Menu
New Category Details Entry
CATEGORY NAME :
Half Steve
COUNTRY NAME :
USA
EPE
FRA
JAPAN
SAVE
Local intranet

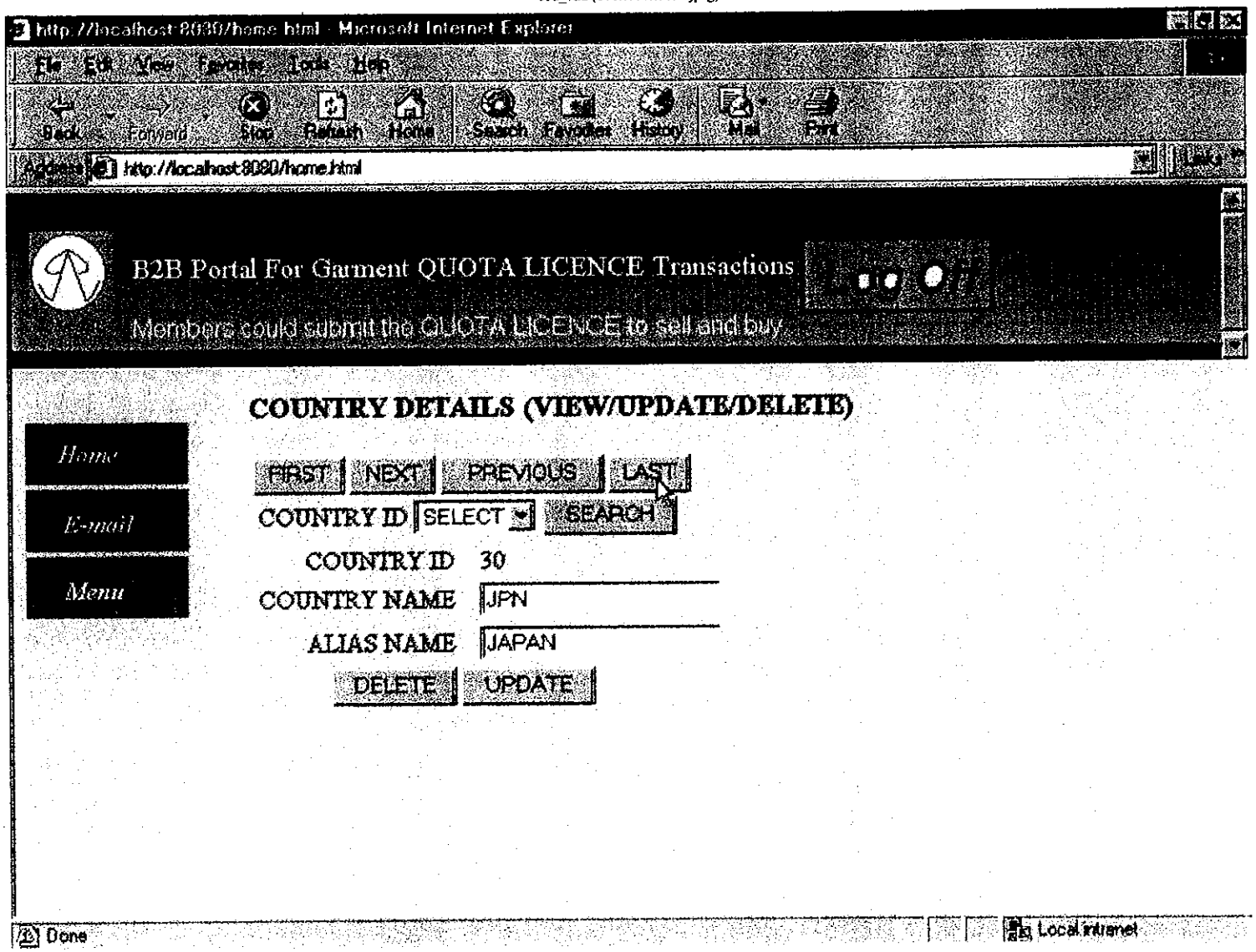
purchase (800x600x16M jpeg)



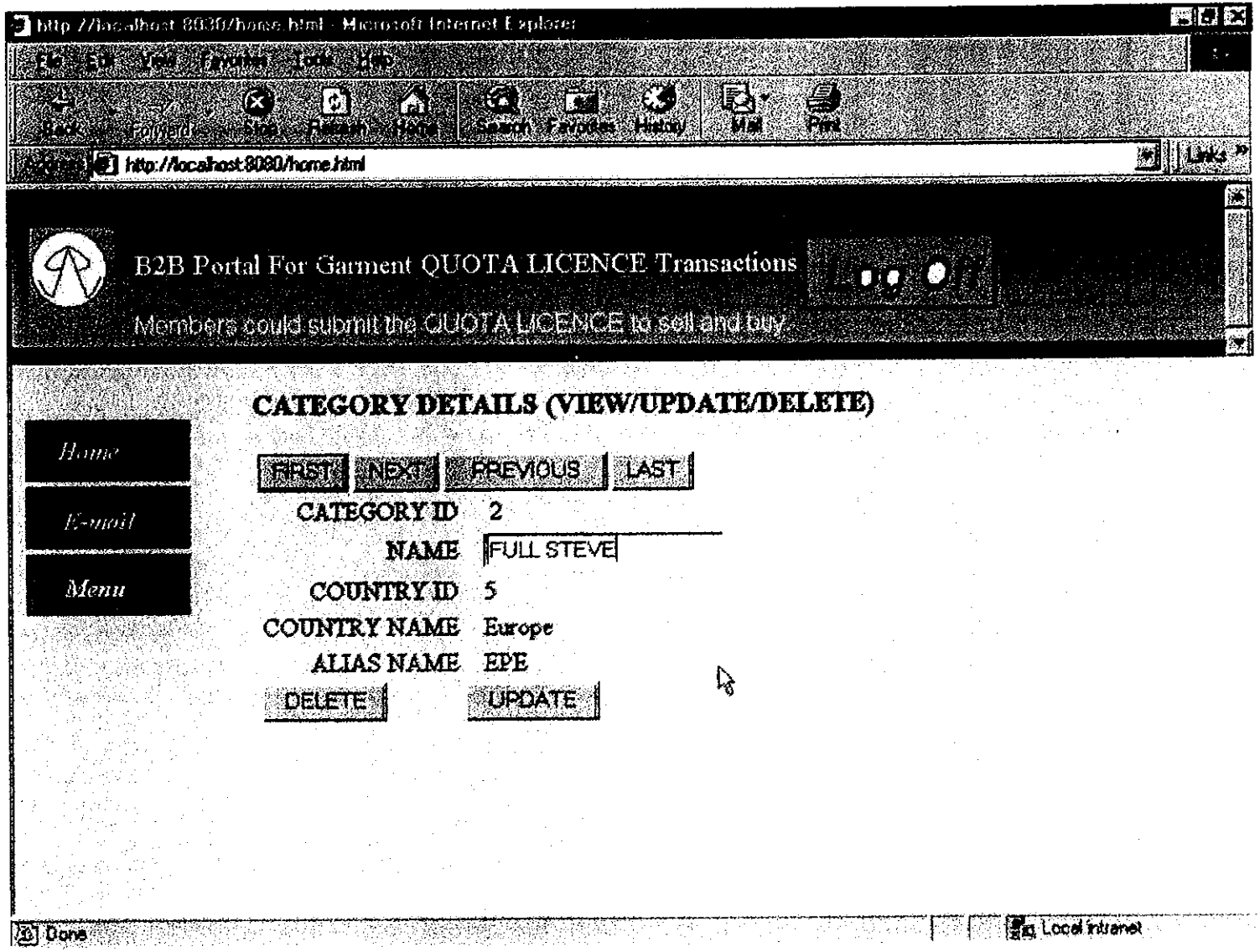
mem_view2 (800x600x16M jpeg)



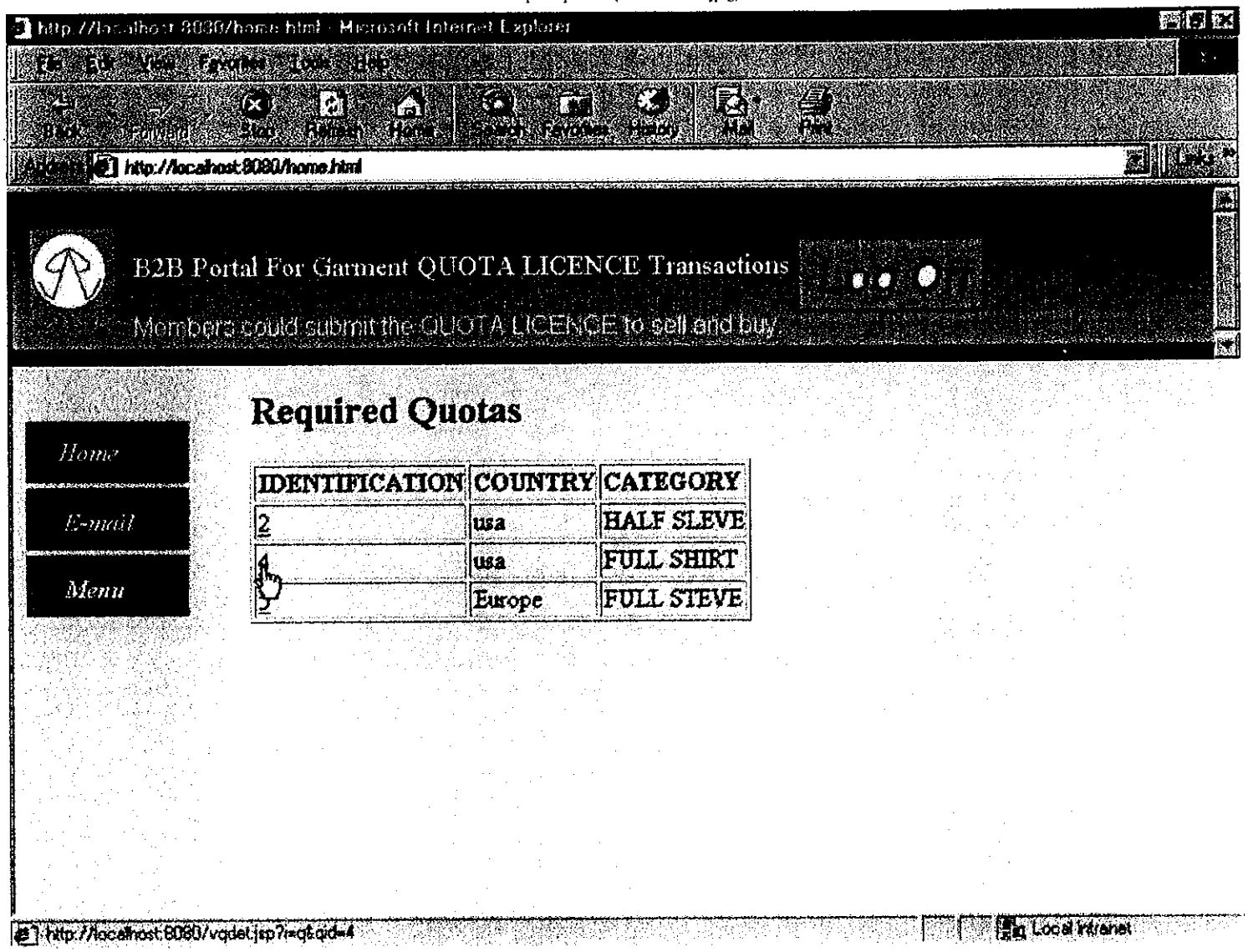
cou_vud (800x600x16M jpeg)



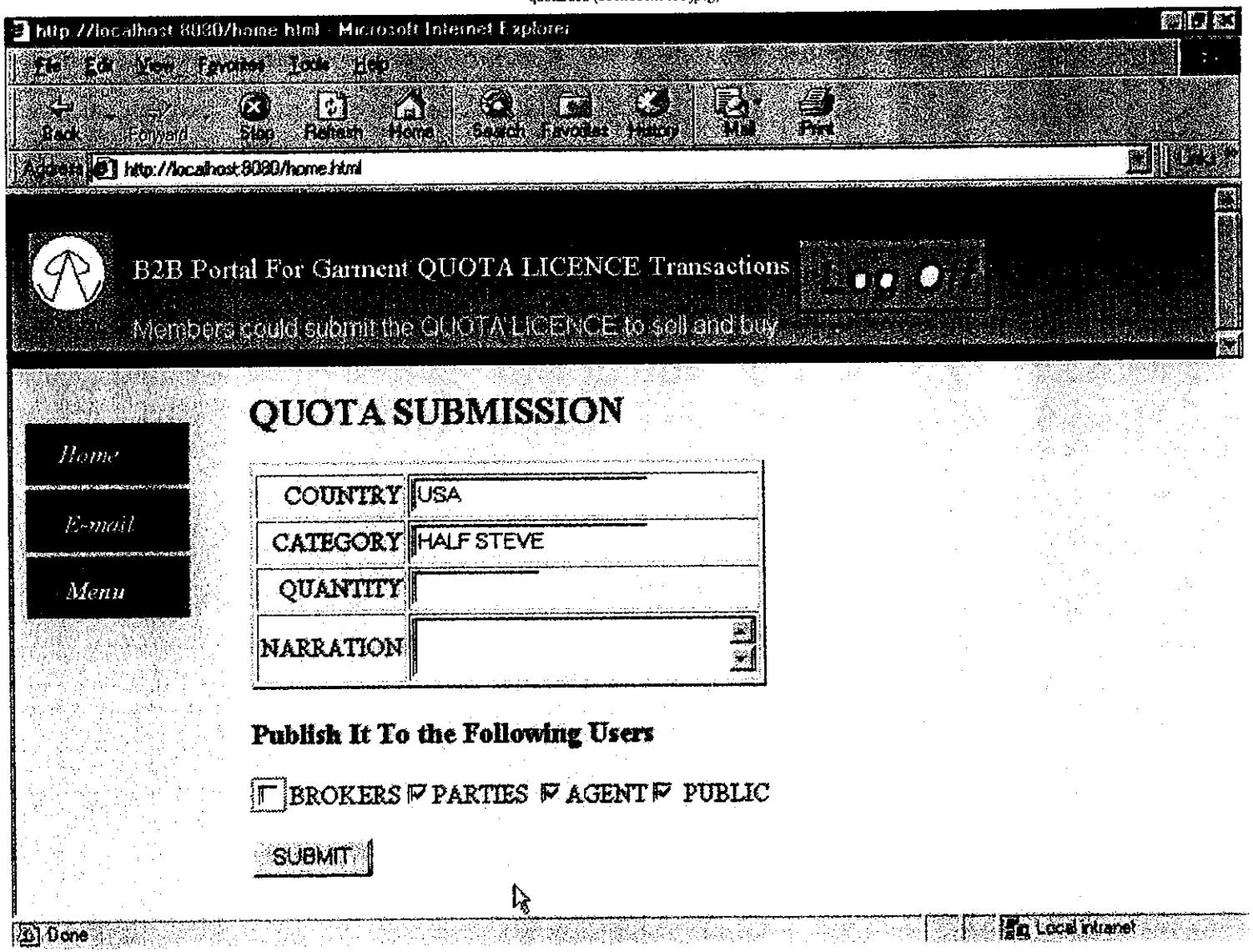
cat_vud (800x600x16M jpeg)



requiredquotatab (800x600x16M jpeg)



quotasub2 (800x600x16M jpeg)



logoff (800x600x16M jpeg)