

FEEDER MANAGEMENT SYSTEM

PROJECT REPORT

P-999

*Submitted in partial fulfillment of the requirements
for the award of the degree of*

MASTER OF COMPUTER APPLICATIONS

Of Bharathiar University

Submitted by

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2002 - 2003



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CERTIFICATE

This is certify that the project entitled

“FEEDER MANAGEMENT SYSYTEM”

Done by

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*Submitted in partial fulfillment of the requirement for the award of the degree of
Master of Computer Applications of Bharathiar University.*

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Head of the Department

[Signature]

Guide

Submitted for the university examination held on

[Signature]
16/4

Internal Examiner

[Signature]

External Examiner

March 21,2003

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Mohanraj.P.C. Who is pursuing his final year M.C.A (Master of Computer Applications) at Kumaraguru College of Technology, Coimbatore has successfully completed his project work entitled “ **FEEDER MANAGEMENT SYSTEM**” as part of his academic curriculum during December 2002 and March 2003.

During the project tenure his attendance was found to be regular.

Due to operational reasons, we are not in a position to give the source code to the student.

We wish him all the best in his future endeavors



B.C.Giri
Director

ACKNOWLEDGEMENT

I express my profound respect and sincere gratitude to **Dr.K.K.Padmanaban, Ph.D.**, Principal, **Kumaraguru college of technology**, Coimbatore, for his kind co-operation in allowing me to take up this project work.

I record my sincere thanks to the Head of the Department **Dr.S.Thangaswamy, Ph.D.**, Computer Sciences and Engineering, **Kumaraguru college of technology**, for encouraging me to take up the project at Kinship Technologies Private Limited, Chennai.

I express my sincere thanks to **Mr. A.Muthukumar, M.Sc, MCA, M.Phil**, Senior Lecture, Master of Computer Application, without his motivation and guidance I would not been able to embark on a project of this magnitude.

I would like to thank my guide **Mr.M.Nageswaraguptha B.E**, Lecturer, Dept. of Computer Science and Engineering, Kumaraguru College of Technology, who has been a constant source of encouragement for our project. I would like to express my special thanks to all staff members, who helped us for the successful completion of the project.

I wish to extend my gratitude to **Mr.K.G.Giri**, Director –Kinship Technologies Private Limited, Chennai for giving me the opportunity to do this project.

I am greatly privileged to express my deep sense of gratitude to **Mr.Suresh**, Project Manager and **Mr.Baskar**, the Project Leader for their valuable advice and encouragement.

My deep sense of gratitude to my parents, friends and all others, for their invaluable help and consideration towards me.

SYNOPSIS

The project work entitled "FEEDER MANAGEMENT SYSTEM"- is an application system developed at Kinship Technologies Private Limited, Chennai for Shipping Companies. This system aims in engineering and in integrating the various business activities. The objectives and goals of the software system are to provide a comprehensive software package for the concern. The entire functionality of collecting information regarding shipping can be managed in a simple and easy to use.

"Feeder Management System" is a web based application. This software will be helpful in automating the various business activities for Shipping Companies. All these functionalities will be possible online through this system.

CONTENTS

1. Introduction	1
1.1 Current Status of the Problem Taken Up	1
1.2 Relevance and Importance	1
2. Literature Survey	3
2.1 Existing System	3
3. Software Requirements	4
3.1 Product Overview and Summary	4
3.2 Development Environment	4
3.3 Operation and Maintenance Environment	4
3.4 Dataflow Diagram	5
3.5 Functional Specifications	5
3.5.1 Voyage	5
3.5.2 Booking	5
3.5.3 Arrival Status	5
3.5.4 Departure Status	6
3.5.5 Invoice	6
3.5.5 Collection	6
3.6 Acceptance Criteria	6
4. Proposed Approach to the product	7
5. Details of Design	8
5.1 Entity Relationship Diagram	11
5.2 Table Details	12
6. Implementation Details	20
7. Testing	24
7.1 Unit Testing	24
7.2 Integration Testing	24
8. Conclusion	26
9. References	27
10. Output and Sample Screens	28

1. INTRODUCTION

1.1 CURRENT STATUS OF THE PROBLEM TAKEN UP:

This web portal is being developed for a Shipping companies. The company is involved in the transportation of the various Products to various countries. The company is known for its shuttle feeder connection. This system is being developed in order to integrate the various businesses activities. This project is developed to increase the efficiency of the workflow by reducing the existing time and resources being consumed. The project is mainly concerned with the Business process Reengineering. The user can get the information from the web. Thus the information is being given only to the right person at the right time. This project involves a business process redesigning of a Feeder Service Provider. The successful completion of this exercise will result in modifications of the existing business operation.

The objective of the project is to reengineer the existing business process where in the workflow is optimized. The newly designed model of business process is to be framed where in the ability of the business system to provide information at right time to the right person at right place with shrinking in the consumption of time and resources. This may result in a modification of the structure in the business process, there by with the objective of minimizing the cost of operation.

Thus web enabling the business process and its operations would make them easy to monitor the various business activities through the web.

1.2 RELEVANCE AND INPORTANCE

The main objective of this project is to develop a Web Based System and user-friendly interface. The company has branches at different places. The major problem between them is sharing of data.

Drawbacks in the existing system:

- Sharing of data is possible.
- Data are entered manually.
- Data redundancy occurs.
- Transaction time is relatively high.
- Tracking can't be done easily.

In the proposed system, all the above drawbacks are removed. The Screens incorporates all predetermined standards and all follow these standards for the uniformity purposes and to be appealing to the user. Availability of reports, is one of the main advantages so as the administrative authorities can easily view the various transactions taking place. Since sharing data takes place, the data regarding that branch can be tracked easily, for this operation the information need not to be sent separately.

2. LITERATURE SURVEY

2.1 EXISTING SYSYTEM

In Existing system they are using FoxPro for their operations. It has so many disadvantages. Listed below...

- No Graphical Interface, not user friendly.
- Data's are entered manually, which results in lot of errors.
- Sharing of data is not possible.
- Transaction time is more.
- Globalization does not exist.

These are the major drawbacks in the existing system, which are Rectified in the proposed system

3. SOFTWARE REQUIREMENTS.

SOFTWARE REQUIREMENT SPECIFICATION DETAILS:

3.1 PRODUCT OVERVIEW AND SUMMARY

This project aims at engineering the business activities. The business process involves in transportation of containers from one port to another port.

3.2 DEVELOPMENT ENVIRONMENT

Platform : Windows
Programming Tools : Cold Fusion, Oracle 8.0
Operating System : Windows NT
Application Server : Apache Web Server

3.3 OPERATION AND MAINTENANCE ENVIRONMENT

SERVER CONFIGURATION

SOFTWARE:

Operating System : Windows NT Workstation 4.0
Front End : Cold Fusion 4.0
Browser : Internet Explorer 6.0
Visual Tool : Macromedia Dream Weaver 4

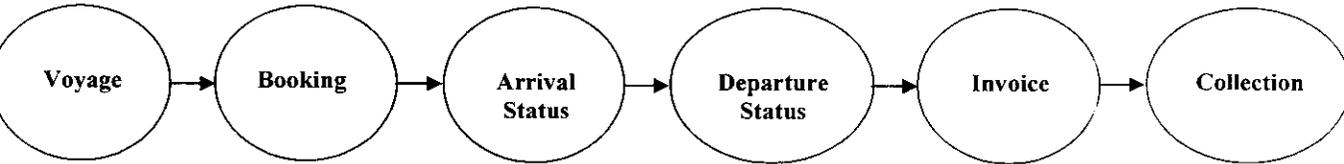
CLIENT CONFIGURATION

SOFTWARE:

Operating System : Windows NT Workstation 4.0
Application Server : Apache Web Server
Front End : Cold Fusion 4.0
Browser : Internet Explorer 6.0
Visual Tool : Macromedia Dream Weaver 4

3.4 DATAFLOW DIAGRAM

LEVEL – 0 DFD



3.5 FUNCTIONAL SPECIFICATIONS

The Project is divided into modules. They are listed as follows

- 1) Voyage
- 2) Booking
- 3) Arrival Status
- 4) Departure Status
- 5) Invoice
- 6) collection

3.5.1 VOYAGE

Voyage is the first stage in the business process. The voyage is defined by selecting the route for the voyage; Route is combination of different sectors. Sector is defined by mentioning the start port and end port. Voyage mentions the appropriate date for the vessel to be arrived in that particular port and finally the vessel is selected for that voyage.

3.5.2 BOOKING

This is the second stage in the business process. After defining the voyage booking is made for different sectors in the voyage. Bookings are made for the sectors with their clients.

3.5.3 ARRIVAL STATUS

When the vessel had arrived at a particular port arrival status is prepared for that particular port. When arrival status is prepared it gives information about the containers that are discharged at that particular port.

3.5.4 DEPARTURE STATUS

After arrival status is prepared departure status is prepared for that voyage in that particular port. Departure status gives the final information about the containers or goods that are loaded in the vessel for that voyage. Even booking is done, if that information is not in the departure status that booking is considered as cancelled.

3.5.5 INVOICE

Invoice is prepared for the client, mentioning the charges for containers that are loaded in the vessel. Charges are defined is defined for that particular client and for that particular sector. Depending upon the charges value invoice amount is calculated and sent to the client.

3.5.6 COLLECTION

Depending upon the invoice value collection is made. Collection can be made at different branches which is mentioned at booking. The collection specifies the mode of collection i.e. by cheque or demand draft or by cash. And if any discount is allowed to that client it is mentioned in collection.

3.6 ACCEPTANCE CRITERIA

The software product, which passes all the test cases, shall be the acceptance criteria for the team to accept the product after User Acceptance Test (UAT).

*PROPOSED APPROACH TO THE
PRODUCT*

4. PROPOSED APPROACH TO THE PRODUCT

The proposed system should be developed in such a way to solve the above problems faced by the present normal system by using latest technology. For this, the ideal environment is the windows environment, as it is the most popular multitasking tool available today. The tool used to develop the system is Cold Fusion for its flexibility and versatility.

The proposed system will help in

- It will help to automate all the services in the organization.
- It gives us any details needed at any time including the status etc.
- All the debugging activities can be done online and so it takes very little time.
- The system is scalable.
- User Friendly

5. DETAILS OF DESIGN

The total system is divided into separately named and addressable components called modules, which are integrated to satisfy problem requirements. Here the system is divided into six modules –

- Voyage
- Booking
- Arrival Status
- Departure Status
- Invoice
- Collection

VOYAGE

Voyage is the first stage in the business process. The voyage is defined by selecting the route for the voyage; Route is combination of different sectors. Sector is defined by mentioning the start port and end port. Voyage mentions the appropriate date for the vessel to be arrived in that particular port and finally the vessel is selected for that voyage.

BOOKING

This is the second stage in the business process. After defining the voyage booking is made for different sectors in the voyage. Bookings are made for the sectors with their clients.

Normally booking is done two ways

- 1) Manual Booking
- 2) Bulk Booking

MANUAL BOOKING

Booking is done for the containers, which are existing in the voyage. The data's are entered. Booking is made for client. Manual booking is efficient for booking less number of containers. It is used for the container's left out in the bulk booking.

BULK BOOKING

Even though booking can be done manually, it takes a lot of time for bulk data. In this case, Booking is done by accessing the file which is in excel format (.xls). The data read from the file are stored in database. The data is then taken for processing.

ARRIVAL STATUS

When the vessel had arrived at a particular port arrival status is prepared for that particular port. When arrival status is prepared it gives information about the containers that are discharged at that particular port. The discharged container spaces are updated at that particular port and bookings can be done in that voyage at that port.

DEPARTURE STATUS

After arrival status is prepared departure status is prepared for that voyage in that particular port. Departure status gives the final information about the containers or goods that are loaded in the vessel for that voyage. Even booking is done, if that information is not in the departure status that booking is considered as cancelled.

Departure status can be done in two ways

- i) Manual Departure
- ii) Bappilie Import.

MANUAL DEPARTURE

In manual departure containers positions i.e. (BAY, ROW, TIER) values are entered manual. It takes lot of time for completion of the process. It is efficient for fewer amounts of bookings in that port.

BAPPILIE IMPORT

Bappilie is an international file format used by the port authorities. During departure status the BAY, ROW, TIER values are added in the file and imported. The information in the Bappilie is the final one. The containers left at booking can also be added in Bappilie. After completion of the departure status, the existing booking status is final one.

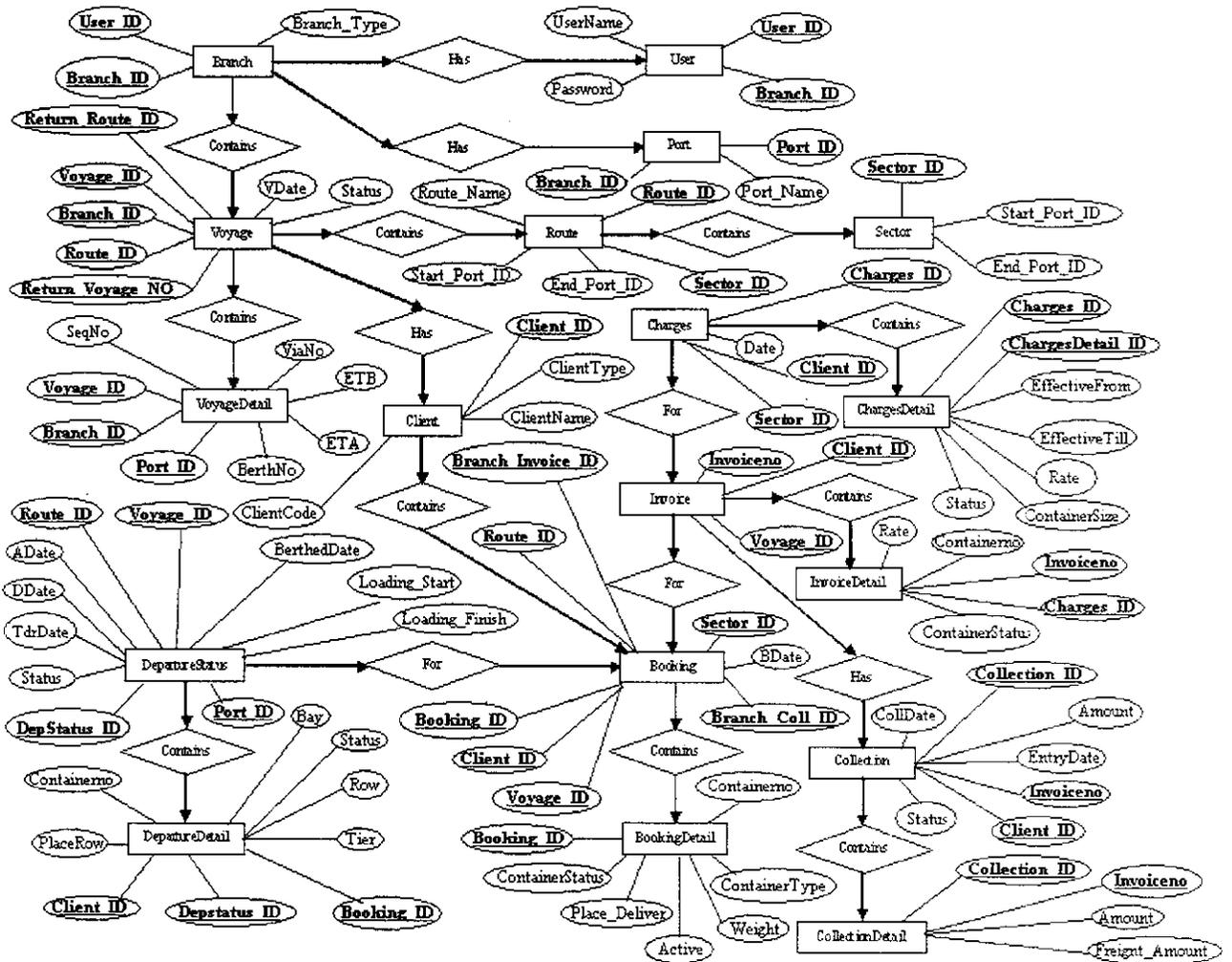
INVOICE

Invoice is prepared for the client, mentioning the charges for containers that are loaded in the vessel. Charges are defined i.e. CCA (Connecting Carrier Agreement) is defined for that particular client and for that particular sector. Depending upon the charges value invoice amount is calculated and sent to the client.

COLLECTION

Depending upon the invoice value collection is made. Collection can be made at different branches which is mentioned at booking. The collection specifies the mode of collection i.e. by cheque or demand draft or by cash. And if any discount is allowed to that client it is mentioned in collection.

5.1 ENTITY – RELATIONSHIP DIAGRAM



5.2 TABLE DETAILS

USER

FIELD NAME	DATA TYPE	DESCRIPTION
USER ID	NUMBER(3)	Primary Key
BRANCH ID	VARCHAR2(10)	Foreign Key
USERNAME	VARCHAR2(30)	
PASSWORD	VARCHAR2(30)	
DESCRIPTION	VARCHAR2(50)	

BRANCH

FIELD NAME	DATA TYPE	DESCRIPTION
BRANCH ID	VARCHAR2(10)	Primary Key
BRANCH	VARCHAR2(15)	
BRANCHTYPE	NUMBER(1)	
ADDRESS ID	NUMBER(5)	

PORT

FIELD NAME	DATA TYPE	DESCRIPTION
PORT ID	VARCHAR2(10)	Primary Key
BRANCH ID	VARCHAR2(10)	Foreign Key
PORT NAME	VARCHAR2(5)	
DESCRIPTION	VARCHAR2(50)	

SECTOR

FIELD NAME	DATA TYPE	DESCRIPTION
SECTOR ID	VARCHAR2(12)	Primary Key
START PORT ID	VARCHAR2(10)	
DISCHARGE PORT ID	VARCHAR2(10)	
DESCRIPTION	VARCHAR2(50)	

ROUTE

FIELD NAME	DATA TYPE	DESCRIPTION
ROUTE ID	VARCHAR2(10)	Primary Key
ROUTE NAME	VARCHAR2(35)	
START PORT ID	VARCHAR2(10)	
END PORT ID	VARCHAR2(10)	
DESCRIPTION	VARCHAR2(50)	

VOYAGE

FIELD NAME	DATA TYPE	DESCRIPTION
VOYAGE ID	VARCHAR2(10)	Primary Key
BRANCH ID	VARCHAR2(10)	Foreign Key
ROUTE ID	VARCHAR2(10)	Foreign Key
VESSEL ID	VARCHAR2(10)	Foreign Key
VDATE	DATE	
RETURN ROUTEID	VARCHAR2(10)	
RETURN VOYNO	VARCHAR2(10)	
REMARKS	VARCHAR2(100)	
STATUS	NUMBER(1)	

VOYAGE DETAIL

FIELD NAME	DATA TYPE	DESCRIPTION
VOYAGE ID	VARCHAR2(10)	Foreign Key
BRANCH ID	VARCHAR2(10)	Foreign Key
ROUTE ID	VARCHAR2(10)P[V-0	Foreign Key
PORT ID	VARCHAR2(10)	Foreign Key
VESSEL ID	VARCHAR2(10)	Foreign Key
BERTHNO	VARCHAR2(10)	
SEQNO	NUMBER(5)	
VIANO	VARCHAR2(10)	
ETA	DATE	
ETB	DATE	

VESSEL

FIELD NAME	DATA TYPE	DESCRIPTION
VESSEL ID	VARCHAR2(10)	Primary Key
CLIENT ID	VARCHAR2(10)	Foreign Key
NAME	VARCHAR2(20)	
BUILT	NUMBER(4)	
FLAG	VARCHAR2(20)	
CLASS	VARCHAR2(10)	
DWT	NUMBER(9)	
GRT	NUMBER(9)	
NRT	NUMBER(9)	
LBP	VARCHAR2(10)	
LOA	NUMBER(11,2)	
CAPACITY	NUMBER(9)	
REEFERS	NUMBER(5)	
SPEED	NUMBER(5)	

BEAM	VARCHAR2(10)	
OFF NO	NUMBER(8)	
PLCLUB	VARCHAR2(10)	
GEARTYPE	VARCHAR2(10)	
TYPE VESSEL	VARCHAR2(10)	
NO OF CREW	NUMBER(10)	
NO OF CRANES	NUMBER(10)	
LIFTCAPACITY	NUMBER(6)	
DRAFT CAPACITY	NUMBER(10)	
NO HOLDS	NUMBER(10)	
BBOX BOW	VARCHAR2(10)	
CALLSIGN	VARCHAR2(10)	
DESCRIPTION	VARCHAR2(50)	
FEEDERCODE	VARCHAR2(5)	

BOOKING

FIELD NAME	DATA TYPE	DESCRIPTION
BOOKING ID	NUMBER(10)	Primary Key
CLIENT ID	VARCHAR2(10)	Foreign Key
VOYAGE ID	VARCHAR2(10)	Foreign Key
BRANCH ID	VARCHAR2(10)	Foreign Key
ROUTE ID	VARCHAR2(10)	Foreign Key
BOOKING BRANCH ID	VARCHAR2(10)	Foreign Key
BRANCH INVOICE ID	VARCHAR2(10)	Foreign Key
BRANCH COLL ID	VARCHAR2(10)	Foreign Key
SECTOR ID	VARCHAR2(12)	Foreign Key
BDATE	DATE	
BOOKINGSTATUS	CHAR(1)	
REMARKS	VARCHAR2(100)	

BOOKING DETAIL

FIELD NAME	DATA TYPE	DESCRIPTION
BOOKING ID	NUMBER(10)	Foreign Key
IMCODE	NUMBER(4)	
UNCODE	NUMBER(4)	
CONTAINERSIZE	NUMBER(3)	
CONTAINERNO	VARCHAR2(15)	
CONTAINERSTATUS	CHAR(1)	
CONTAINERTYPE	VARCHAR2(60)	
PLACE DELIVER	VARCHAR2(20)	
OOG ID	NUMBER(4)	
REEFER VOLT	NUMBER(10)	
WEIGHT	NUMBER(10)	

OOG	CHAR(1)	
DESCRIPTION	VARCHAR2(100)	
ACTIVE	CHAR(1)	
OHEIGHT	NUMBER(5)	
OLENGTH	NUMBER(5)	
OWIDTH	NUMBER(5)	
TRANSPORT	NUMBER(1)	
TEMP UNIT	CHAR(1)	
OLENGTH1	NUMBER(5)	
OWIDTH1	NUMBER(5)	

CLIENT

FIELD NAME	DATA TYPE	DESCRIPTION
CLIENT ID	VARCHAR2(10)	Primary Key
CLIENTTYPE	VARCHAR2(10)	
ADDRESS ID	NUMBER(5)	Foreign Key
CLIENTNAME	VARCHAR2(50)	
CLIENTCODE	VARCHAR2(10)	
DESCRIPTION	VARCHAR2(50)	

ADDRESS

FIELD NAME	DATA TYPE	DESCRIPTION
ADDRESS ID	NUMBER(5)	Primary Key
ADDRESS1	VARCHAR2(50)	
ADDRESS2	VARCHAR2(80)	
CITY	VARCHAR2(40)	
STATE	VARCHAR2(20)	
COUNTRY	VARCHAR2(30)	
PINCODE	VARCHAR2(15)	
EMAIL1	VARCHAR2(200)	
EMAIL2	VARCHAR2(200)	
PHONE1	VARCHAR2(15)	
PHONE2	VARCHAR2(15)	
FAX1	VARCHAR2(15)	
FAX2	VARCHAR2(15)	
MOBILE	VARCHAR2(15)	
PORT ID	VARCHAR2(10)	
STATUS	CHAR(1)	
BRANCH ID	VARCHAR2(10)	
SECTOR ID	VARCHAR2(10)	

DEPARTURE DETAIL

FIELD NAME	DATA TYPE	DESCRIPTION
CONTAINERNO	VARCHAR2(15)	
PLACED ROW	NUMBER(4)	
BAY	NUMBER(4)	
TIER	NUMBER(4)	
STATUS	NUMBER(1)	
CLIENT ID	VARCHAR2(10)	Foreign Key
DEPSTATUS ID	NUMBER(10)	Primary Key
PORTSTATUS	NUMBER(1)	
BOOKING ID	NUMBER(10)	

DEPARTURE STATUS

FIELD NAME	DATA TYPE	DESCRIPTION
DEPSTATUS ID	NUMBER(10)	Foreign Key
VOYAGE ID	VARCHAR2(10)	Foreign Key
ROUTE ID	VARCHAR2(10)	Foreign Key
PORT ID	VARCHAR2(10)	Foreign Key
ADATE	DATE	
DDATE	DATE	
BERTHEDDATE	DATE	
TDRDATE	DATE	
UNLOADING START	DATE	
UNLOADING FINISH	DATE	
LOADING START	DATE	
LOADING FINISH	DATE	
ARRIVAL AVG SPEED	VARCHAR2(10)	
SAILEDON	DATE	
REQUIRED HFO	NUMBER(7,2)	
REQUIRED IFO	NUMBER(7,2)	
REQUIRED MGO	NUMBER(7,2)	
REQUIRED FW	NUMBER(7,2)	
REQUIRED BALLAST	NUMBER(7,2)	
CONSUMED HFO	NUMBER(7,2)	
CONSUMED IFO	NUMBER(7,2)	
CONSUMED MGO	NUMBER(7,2)	
CONSUMED FW	NUMBER(7,2)	
CONSUMED BALLAST	NUMBER(7,2)	
POB	DATE	
A HFO	NUMBER(7,2)	
A BALLAST	NUMBER(7,2)	
A IFO	NUMBER(7,2)	

D IFO	NUMBER(7,2)	
D BALLAST	NUMBER(7,2)	
D MGO	NUMBER(7,2)	
D FW	NUMBER(7,2)	
SHIFT REMARKS	VARCHAR2(200)	
STATUS	NUMBER(1)	
SUPPLIED HFO	NUMBER(7,2)	
SUPPLIED IFO	NUMBER(7,2)	
SUPPLIED MGO	NUMBER(7,2)	
SUPPLIED FW	NUMBER(7,2)	
SUPPLIED BALLAST	NUMBER(7,2)	

INVOICE

FIELD NAME	DATA TYPE	DESCRIPTION
INVOICENO	VARCHAR2(15)	Primary Key
CLIENT ID	VARCHAR2(10)	Foreign Key
SECTOR ID	VARCHAR2(12)	Foreign Key
BRANCH INVOICE ID	VARCHAR2(12)	Foreign Key
CHARGES ID	VARCHAR2(10)	Foreign Key
VOYAGE ID	NUMBER(10)	Foreign Key
BRANCH ID	VARCHAR2(10)	Foreign Key
ROUTE ID	VARCHAR2(10)	Foreign Key
BOOKING ID	NUMBER(10)	Foreign Key
INVOICE DATE	DATE	
PAYABLEBY	DATE	
INVOICE STATUS	CHAR(1)	
COLL STATUS	CHAR(1)	
AMOUNT	NUMBER(10,2)	
DISCOUNT	NUMBER(8,2)	
DESCRIPTION	VARCHAR2(200)	
BRANCH COLL ID	VARCHAR2(10)	Foreign Key
DESCRIPTION	VARCHAR2(250)	

INVOICE DETAIL

FIELD NAME	DATA TYPE	DESCRIPTION
INVOICENO	VARCHAR2(15)	Foreign Key
CHARGESDETAIL ID	NUMBER(10)	Foreign Key
CONTAINERNO	VARCHAR2(15)	
RATE	NUMBER(8,2)	
CONTAINERSIZE	NUMBER(3)	
CONTAINERSTATUS	CHAR(1)	
REMARKS	VARCHAR2(100)	

CHARGES

FIELD NAME	DATA TYPE	DESCRIPTION
CHARGES ID	NUMBER(10)	Primary Key
INVOICE BRANCH ID	VARCHAR2(10)	Foreign Key
COLLECTION BRANCH ID	VARCHAR2(10)	Foreign Key
CLIENT ID	VARCHAR2(10)	Foreign Key
SECTOR ID	VARCHAR2(12)	Foreign Key
OOGPERCENT	NUMBER(3)	
CHARGESDATE	DATE	
CREDIT PERIOD	NUMBER(2)	
EFFECTIVEFROM	DATE	
EFFECTIVETILL	DATE	
DESCRIPTION	VARCHAR2(200)	
SUPPORT	NUMBER(5)	
STATUS	NUMBER(1)	
PAYMENTTERMS	VARCHAR2(5)	
VOYAGE ID	VARCHAR2(10)	Foreign Key
BRANCH ID	VARCHAR2(10)	Foreign Key
ROUTE ID	VARCHAR2(10)	Foreign Key
INVOICETYPE	VARCHAR2(20)	
SEALCONTENT	VARCHAR2(150)	

CHARGESDETAIL

FIELD NAME	DATA TYPE	DESCRIPTION
CHARGESDETAIL ID	NUMBER(10)	Primary Key
CHARGES ID	NUMBER(10)	Foreign Key
SUBTYPE	NUMBER(4)	
GROUP	NUMBER(4)	
OOG	NUMBER(4)	
SHIPMENTTYPE	CHAR(1)	
CONTAINERSIZE	NUMBER(3)	
CONTAINERSTATUS	CHAR(1)	
SLABSTARTPT	NUMBER(5)	
OOGPERCENT	NUMBER(3)	
RATE	NUMBER(8,2)	
SLABENDPT	NUMBER(5)	
STATUS	NUMBER(1)	
EFFECTIVEFROM	DATE	
EFFECTIVETILL	DATE	

COLLECTION

FIELD NAME	DATA TYPE	DESCRIPTION
COLLECTION ID	NUMBER(10)	Primary Key
CLIENT ID	VARCHAR2(10)	Foreign Key
COLL DATE	DATE	
AMOUNT	NUMBER(12,2)	
BANK	VARCHAR2(25)	
CHEQUENO	VARCHAR2(25)	
CHEQUEDATE	DATE	
STATUS	CHAR(1)	
INVOICENO	VARCHAR2(15)	Foreign Key
MODEOFPAYMENT	NUMBER(1)	
REMARKS	VARCHAR2(100)	
ENTRYDATE	DATE	

COLLECTIONDETAIL

FIELD NAME	DATA TYPE	DESCRIPTION
SERIALNUMBER	NUMBER(8)	Primary Key
COLLECTION ID	NUMBER(10)	Foreign Key
INVOICENO	VARCHAR2(15)	Foreign Key
AMOUNT	NUMBER(12,2)	
FREIGHT AMOUNT	NUMBER(12,2)	
PHC AMOUNT	NUMBER(12,2)	
DESCRIPTION	VARCHAR2(100)	

6. IMPLEMENTATION DETAILS

This System is developed using Cold Fusion, as it is one of the best available Graphical User Interface (GUI), enables to create a Website that is dynamic, fast and Interactive without requiring the clients to worry about the capabilities of browsers. Cold Fusion is one of the best available Web based User Interface environments.

REASONS FOR SELECTING COLD FUSION

Cold Fusion is a Web application development tool that enables the rapid creation of interactive, dynamic, and information-rich Web sites. Cold Fusion does not require coding in traditional programming languages. Instead, creating applications by extending your standard HTML files with high level formatting functions, conditional operators, and database commands. These commands are instructions to the Cold Fusion processor and form the building blocks on which to build industrial strength applications. This method of creating Web applications has significant advantages over conventional application development.

- Cold Fusion applications can be developed rapidly because no coding is required other than use of simple HTML style tags.
- Cold Fusion applications are easy to test and roll out.
- The Cold Fusion language contains all the processing and formatting functions you'll need (and the ability to create your own functions if you really run into a dead end).
- Cold Fusion applications are easy to maintain because there is no compilation or linking step, so the files you create are the files used by Cold Fusion.
- Cold Fusion provides all the tools you need to be able to troubleshoot and debug applications.
- Cold Fusion comes with all the hooks needed to link to almost any database application.
- Cold Fusion is fast.

THE DYNAMIC PAGE ADVANTAGE

Linking your Web site to live data is a tremendous advantage, but the benefits of database interaction go beyond extending the capabilities of your Web site. With Cold Fusion you can create dynamic, data-driven Web pages. Dynamic Web pages are becoming the norm, and for a good reason.

STATIC WEB PAGES

Static Web pages are made up of text and images, and HTML formatting tags. These pages are manually created and maintained so when information changes, so must the page. This usually involves loading the page into an editor, making the changes, reformatting text if needed, and then saving the file. Of course, not everyone in the organization can make these changes. The Webmaster, or Web design team, is responsible for maintaining the site and implementing all changes and enhancements. This often means that by the time information finally makes it onto the Web site, it is out of date.

DYNAMIC WEB PAGES

Dynamic Web pages contain very little actual text. Instead, they pull needed information from other applications. Dynamic Web pages communicate with databases to extract information.

FEATURES OF COLDFUSION

Cold Fusion provides you with a full range of database interaction functions to create complete dynamic, data-driven Web pages. The features include:

- The ability to query existing database applications for data.
- The ability to create dynamic queries facilitating more flexible data retrieval.
- The ability to execute stored procedures in databases that support them.
- The ability to execute conditional code on-the-fly, to customize responses for specific situations.
- The ability to enhance the standard HTML form capabilities with data validation functions.
- The ability to customize the display of dates, times, and currency values with formatting functions.

REASONS FOR SELECTING JAVASCRIPT

JavaScript is a compact, object-based scripting language for developing client and server Internet applications. Browser interprets JavaScript statements embedded in an Webpage, and Livewire enables you to create server-based applications similar to Common Gateway Interface (CGI) programs. JavaScript is an easy to use object-scripting language designed for creating live online applications that link together objects and resources on both client and server. JavaScript is designed for use by HTML page authors and enterprise application developers to dynamically script the behavior of objects running on either a client or server. Netscape develops JavaScript and Microsoft develops Jscript. With JavaScript we can easily create interactive web pages.

Java script is

- Designed to create net-centric application
- Complementary to and integrate with java
- Complementary to and integrate with HTML
- Open and cross platform.

REASONS FOR SELECTING ORACLE 8.0

A database management system is essentially a collection of interrelated data and set of programs to access the data. This collection of data is called the database. RDBMS is the acronym for Relational Database Management System. Oracle products are based on a concept known as the 'Client Server Technology'. This concept involves segregating the processing of an application between two systems. One performs all the activities related to the database (server) and the other performs activities that help the user to interact with the application (client). A client or front end database application also interacts with the database by requesting and receiving information from the 'database server'. It acts as an interface between the user and the database. Further it also checks for validation against the data entered by the user. The database server or back end is used to manage the database tables optimally among multiple clients who concurrently request the server for the same data. It also enforces data integrity across all client applications and

Oracle provides various tools for application development and for performing administrative functions:

- Oracle Enterprise Manager (OEM)
- SQL*Plus
- PL/SQL
- Net8
- Precompilers

SQL*Plus

The only interface available between end users and an RDBMS is Structured Query Language (SQL). All other applications and tools that users utilize to interact with the RDBMS act as translators/interpreters. These tools generate SQL commands based on a user's request and pass the generated SQL commands on to the RDBMS.

SQL*Plus, Oracle's version of SQL, is one of the most commonly used Oracle tools. SQL*Plus enables users to instruct the Oracle instance to perform the following SQL functions:

- Data definition or DDL operations, such as creating, altering, and dropping database objects
- Data query to select or retrieve the stored data
- Data manipulation or the DML operations to insert, update, and delete data
- Access and transfer data between the databases
- Allow user to enter data interactively
- DBA functions or the database administrative tasks such as managing users (creating, altering, and dropping users), managing space (creating, altering, and dropping table spaces), and backup and recovery

7. TESTING

Testing is an important process, which leads to the success of the system. System is mainly performed with the intention of finding errors to give the client an error free system. System testing makes a logical assumption that all parts of the system are correct and move towards it to make the system error free.

Inadequate testing of the system will lead to errors, which even can arise after long time of system implementation. The purpose of system testing is to consider all the likely variations, and then push the system to its limits and achieve the results.

The various testing done were,

7.1 UNIT TESTING

Each and every program needed to be tested, which is known as unit testing. The module interface is to be tested to ensure that information properly flows in and out of the unit under test. The local data structure is to be examined to ensure that data stored temporarily maintains integrity throughout the unit's lifetime. Boundary condition is tested thoroughly. All independent paths through the control structure are to be exercised to ensure that all the statements in the modules have been executed at least once. All error-handling paths are to be tested.

TEST CASE

- Testing of improper formats of data entered.
- Testing for incorrect values for the fields, which are below the range or above the range.
- Testing date fields by giving date values that is above or below the range.
- Testing the behavior when null values are entered

7.2 INTEGRATION TESTING

Once the modules are tested individually under the unit testing strategy, it is necessary to put all these modules together. It is here that the data can be lost across the interface. One module can have an inadvertent, adverse effect on another.

Integration testing is a systematic technique for constructing the program structure while at the same time conducting test to uncover errors associated with interfacing. The objective is to take unit-testing modules and build a program

TEST CASE

- The navigation between different blocks has been tested for any inconsistencies.
- The block is tested in various modes such as insert, delete and updating entries.
- Also it has been ensured that the changes done in one module are reflected in all the other modules.

TEST CASE**COMMON FUNCTIONALITY TO ALL SCREENS**

SL.NO	TEST CASE	RESULT
1	Click button in the screen	Enters the appropriate screen
2	Invalid Date input	Returns an alert message asking the user to enter in the dd/mm/yyyy format
3	On Loading combo boxes	All data has to be loaded relating particular box, and sorted
4	Invalid Numeric input	Returns an alert message
5	NOT NULL check	Returns an alert message
6	Length Check for all text fields	Not allow to insert beyond the length
7	Click on Hyper Links	Loads appropriate screens

8. CONCLUSION

To achieve higher speed and ultimately the speed of light has been the aim of those in information Technology. Faster microchips, faster methods always keep cropping now and then. Keeping this in mind this software has been developed. The sole aim is to ease the burden on the user and enable the user to perform complex queries in a very less time.

PROJECT ACHIEVEMENTS

The system entitled “Feeder Management System” is a very generic application that can be used to solve the various problems. This software is user friendly and the users can view the various transactions from any part of the world. With the help of the various reports the Administration is able to check the various business transactions taking place. The screens are being designed in such a way that there is minimum input and a lot of choice inputs. The forms are designed in a user-friendly manner.

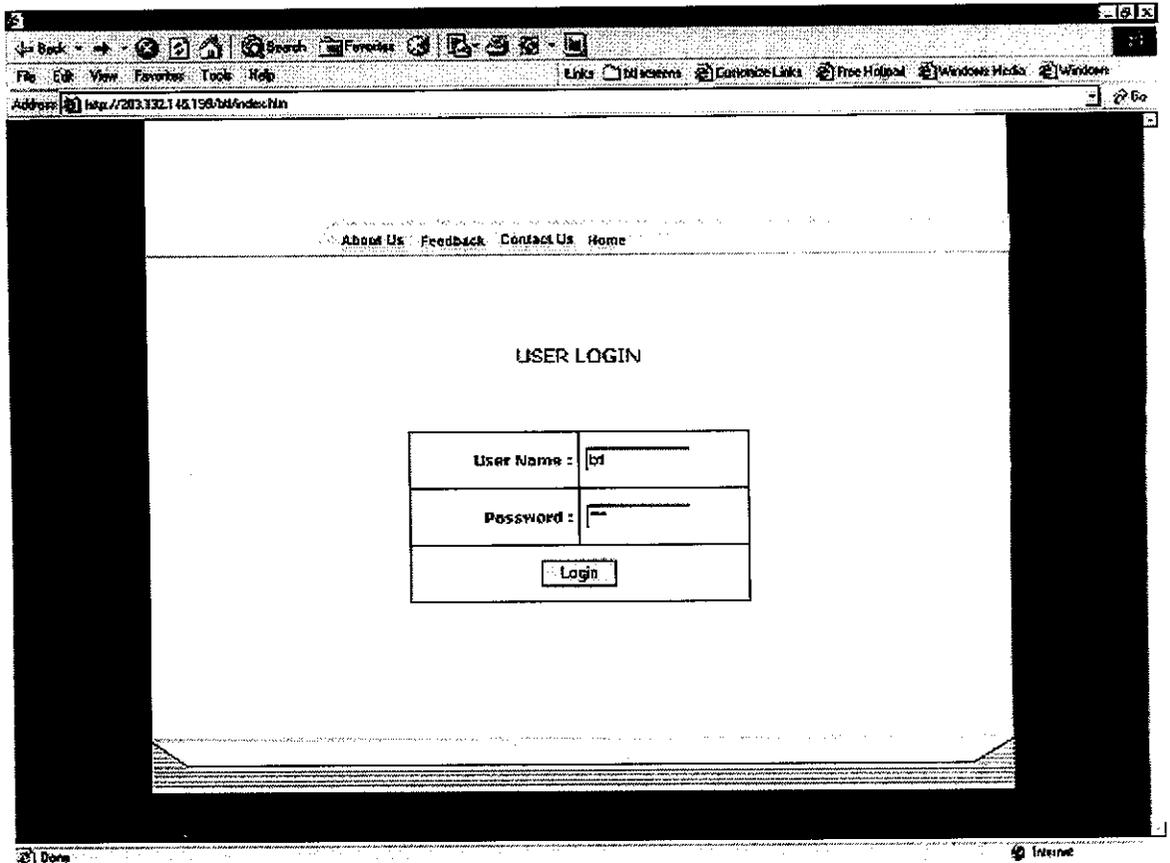
The system is able to make the information available to the right person at the right time. With the help of reports the administration is able to take decisions about the company’s Development.

9. REFERENCES

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- Charles Mohnnike , “**SAMS Teach Yourself Allaire’s Cold fusion in 21 Days**”, First Edition, Sams Publishing , 2000
- “**Allaire’s COLDFUSION 4.0**” E-book
- “**Oracle 8 The Complete Reference**” – E-Book
- “**Teach Yourself Oracle 8 in 21 Days**” – E-Book.

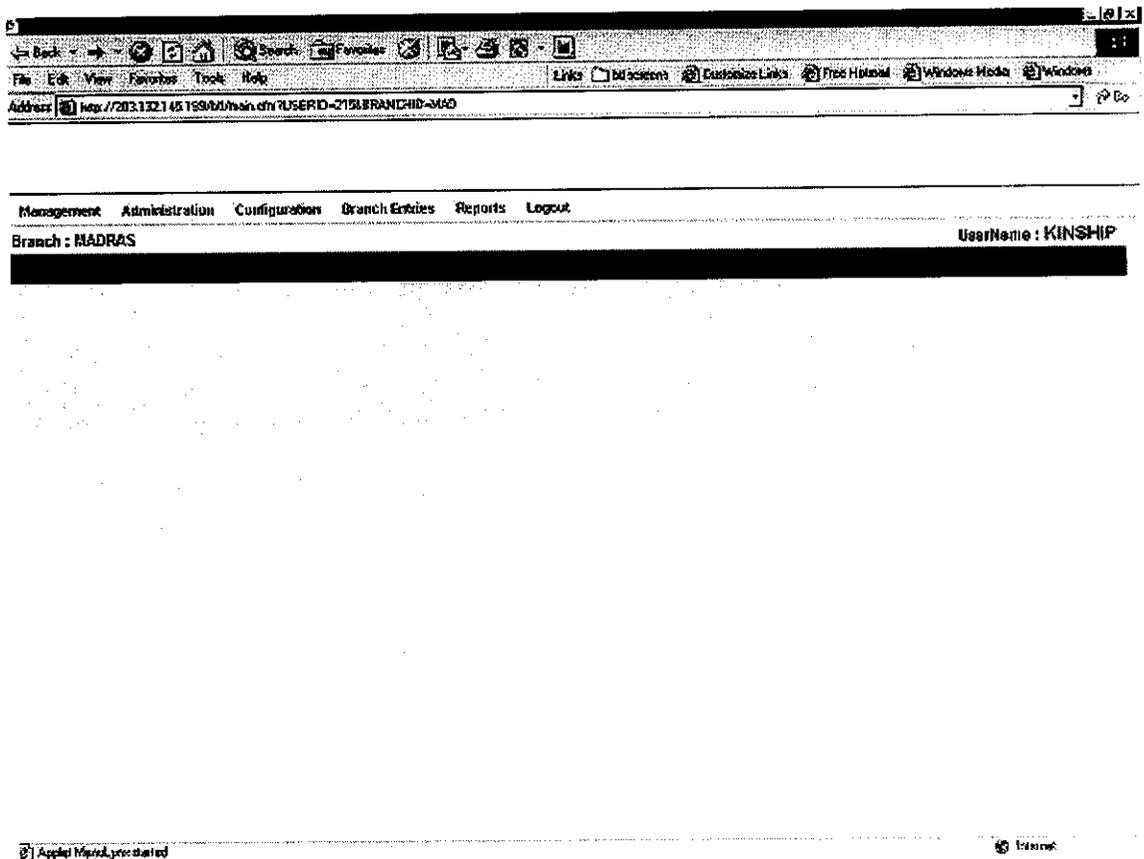
10. OUTPUT AND SAMPLE SCREENS

LOGIN SCREEN



This is the login screen. After verifying the user name and password the user allowed to use the software. The user can view only his related information. Unauthorized users can be avoided.

MAIN SCREEN



This is the main screen. The main screen contains a menu. All the operations to be performed can be selected from the menu.

BRANCH

Management Administration Configuration Branch Entries Reports Logout

Branch - Add

* Branch ID :

* Branch Name :

Address

* Address 1 :

Address 2 :

* City :

* State :

* Country :

* Pin Code :

Mobile :

E-mail 1 :

E-mail 2 :

Telephone 1 :

Telephone 2 :

Fax 1 :

Fax 2 :

[Back to Branches](#)

Applied Market, you are logged in Internet

The screen uses to add a branch. The branch details are entered here and stored. Similarly screens are designed to delete, modify and view the branch details.

USER

Management Administration Configuration Branch Entries Reports Logout

User - Add

* User :

* Password :

* Confirm :

* Branch :

Description :

[Back To User](#)

Applied Menu, generated Internet

This Screen used to add user. Similarly we can modify, delete and view the users.

PORT

Management Administration Configuration Branch Entries Reports Logout

Port - Add

* Port Name :

* Expansion :

Description :

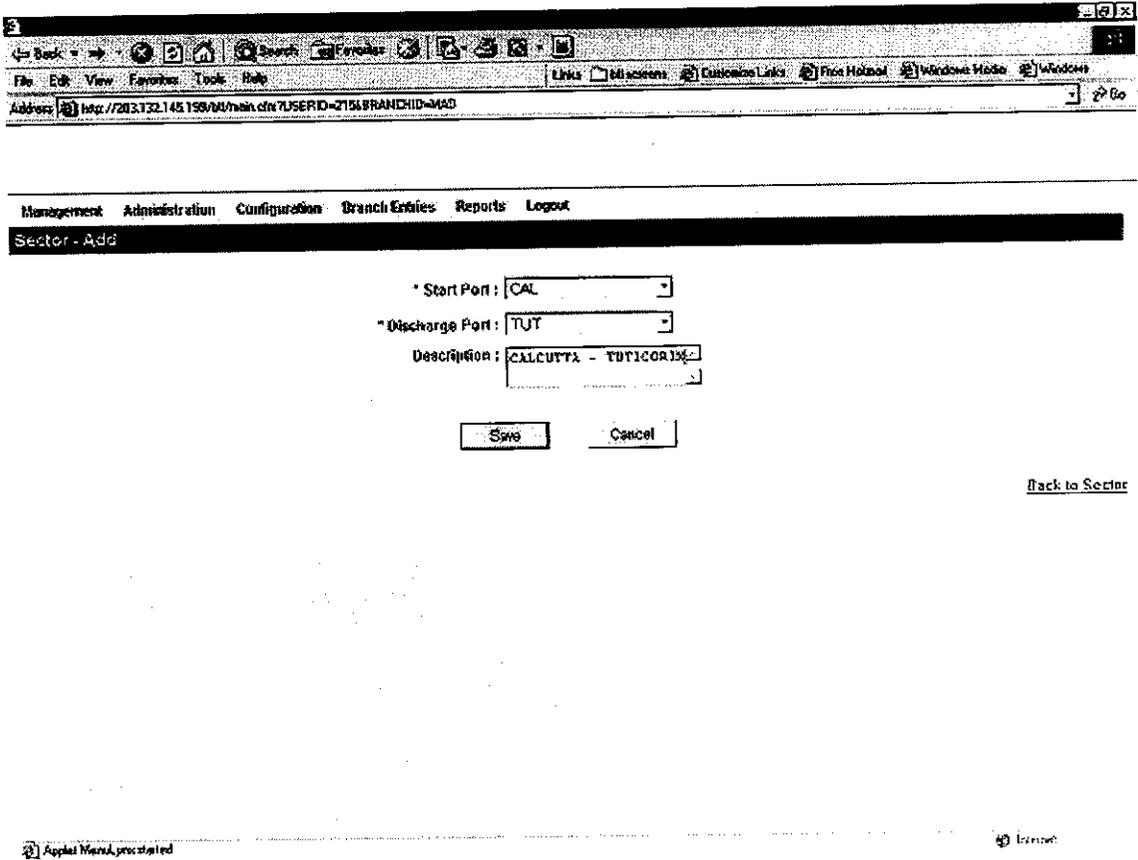
[Back to Port](#)

Applet: /res/nu/proccreated

Internet

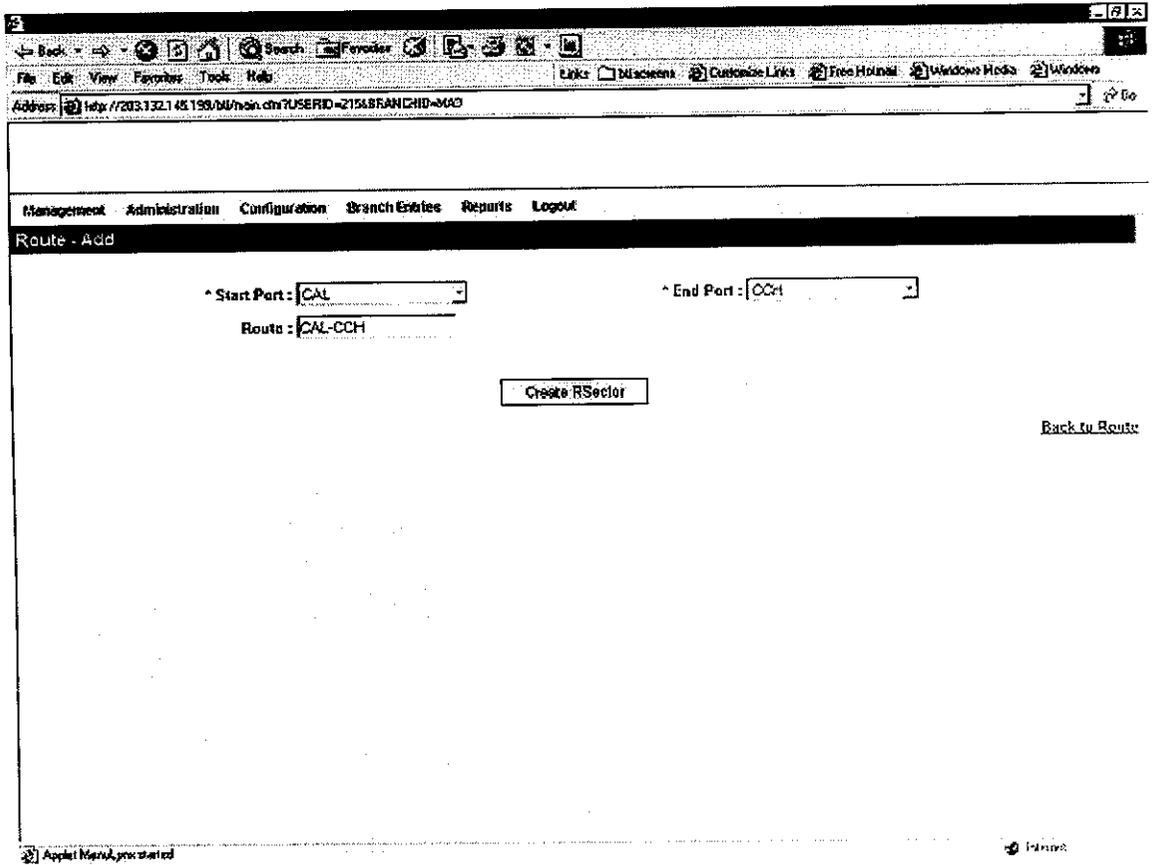
This screen uses to add port information. Options are provided to modify, delete and view the port information

SECTOR



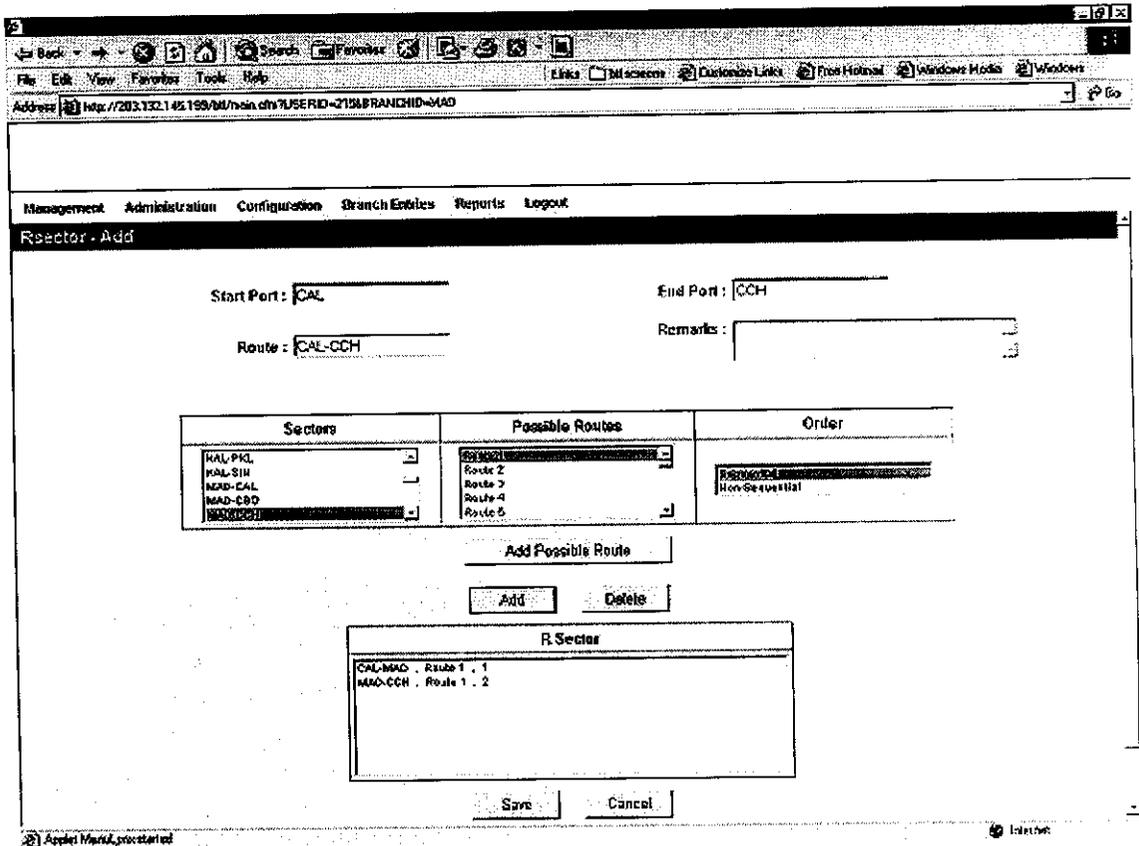
This screen defines the sector combinations by selecting the ports.

ROUTE



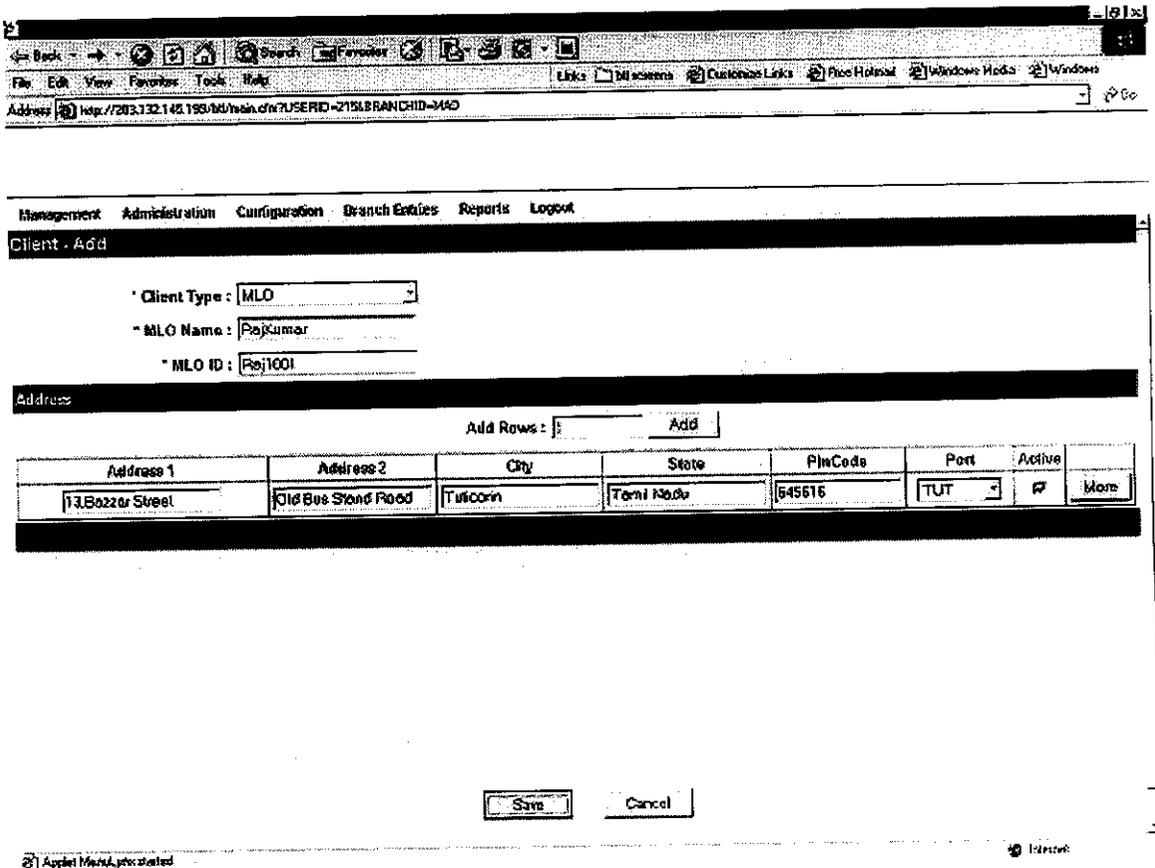
Route is defined by selecting the start port and end port.

ROUTE SECTOR



Route Sector is combination of different sectors. The sector combination defines via of the route.

CLIENT



This screen is used to add the client information. Options are provided for deleting, modifying and viewing the client information.

VESSEL

Management Administration Configuration Branch Entries Reports Logout

Vessel Details - Add

* Vessel ID :	VES112	* Vessel Name :	NGERISLAND
Nationality of Vessel :	INDIA	* Class of Vessel :	CARGO
* Year of Built :	1985	* DWT :	10 (1T)
* Length Over All (LOA) :	250 (M)	* LBP :	139 (M)
* GRT :	19 (MT)	* HRT :	2380 (MT)
* Capacity :	19 (MTP)	* Reefers :	1500 (P/T)
Voltage :	300 (V)	* Call Sign :	90
* Registered Port :	TUT	* Vessel Speed :	300 (KNOTS)
ExitName :	APRILIA	* Owner Name :	CENTAUR NAVIGATIO
Beam :	23	Office Number :	12
PIClub :	12	Gear :	5
Vessel Type :	LARGE	Crew Number :	22
No of Cranes :	5	Lift Capacity :	1700
Draft Capacity :	3345	No of Holds :	22
FProp :	90	Box Row :	23
Telefax :	123454	Description :	VESSEL WITH

Apple Menu, protected

This screen adds the vessel information. Options are provided for deleting, modifying and viewing the vessel information.

SCREEN 2:

_ [91x]
Back
Search
Printer
Links
Bill Systems
Customize Links
File History
Windows Media
Windows
Address
http://203.132.145.198/Menu.cfm?USERID=215&BRANCHID=MAD
Go

Management
Administration
Configuration
Branch Entries
Reports
Logout

Calling Port : CCH

<p>^ Expected Arrival Date Time : 28/12/2002 10:10:10</p> <p>Cargo Admittance Start Date Time : 23/12/2002 10:10:10</p> <p>EM Filling Date : _____</p> <p>Berth No. : _____</p>	<p>Expected Berth Date Time : 27/12/2002 10:10:10</p> <p>Cargo Admittance End Date Time : 24/12/2002 10:10:10</p> <p>Via No : _____</p> <p>Bill Number : _____</p>	<p>^ Expected Departure Date Time : 28/12/2002 10:10:10</p> <p>EM Number : _____</p> <p>Remarks : _____</p>
---	--	--

End Port : CBO

<p>^ Expected Arrival Date Time : 03/01/2003 10:10:10</p> <p>Cargo Admittance Start Date Time : 29/12/2002 10:10:10</p> <p>EM Filling Date : _____</p> <p>Berth No. : _____</p>	<p>Expected Berth Date Time : 03/01/2003 10:10:01</p> <p>Cargo Admittance End Date Time : 31/12/2002 10:10:10</p> <p>Via No : _____</p> <p>Bill Number : _____</p>	<p>^ Expected Departure Date Time : 05/01/2003 10:10:10</p> <p>EM Number : _____</p> <p>Remarks : _____</p>
---	--	--

[Back to Voyage](#)

Apple Mail, just started
1 Entry

ARRIVAL STATUS

telx
17
Links | My screen | Customize Links | Free Helpmail | Windows Mode | Windows
Address http://203.132.145.198/MAIN.CHN?USERID=215&BRANCHID=MAD

Management Administration Configuration Branch Entries Reports Logout

Arrival Status : Add

Voyage ID : 592	VRoute : UP	Route : MAD-CBO	Branch : MADRAS
Port : MAD			
* Arrival Date : 27/12/2002 10:10:01 <small>cdmm/yyyy hh:mm</small>	* Berthed Date : 27/12/2002 11:01:10 <small>cdmm/yyyy hh:mm</small>		
* Arrival Average Speed : 33	* No of Crew : 5		
* Draft Before Arrival : 23	* Draft After Arrival : 34		
* Pilot on Board : 28/12/2002 10:10:10 <small>cdmm/yyyy hh:mm</small>	CBF : 12		
Work Commenced : 28/12/2002 10:10:10 <small>cdmm/yyyy hh:mm</small>			

BUNKERS R.O.B ARRIVAL

Ballast On Arrival : 135	MGO On Arrival : 145
HFO On Arrival : 1523	IFO On Arrival : 17.23
FW On Arrival : 18.12	

BUNKERS CONSUMED

Average Consumed Ballast : 18.23	Average Consumed MGO : 21.31
Average Consumed HFO : 22.45	Average Consumed IFO : 56.33
Average Consumed FW : 33.21	

BUNKER REQUIREMENTS AT NEXT PORT

Apple Mail, protected
Internet

When the vessel arrives at a port, arrival status is prepared. The arrival status informs the containers that are going to be discharged at that particular port.

DEPARTURE STATUS

Management Administration Configuration Branch Entries Reports Logout

Departure Status : Edit

Voyage ID : SRS1	VRoute : UP	Route : MAD-CAL	Branch : MADRAS
Port : MAD			
Arrival Date : 18/12/2002 15:10:00	Berthed Date : 18/12/2002 15:15:00		
Unloading Start : 18/12/2002 15:25:00	Unloading Finish : 18/12/2002 15:30:00		
Loading Start : 18/12/2002 15:25:00	Loading Finish : 18/12/2002 15:35:00		
Departure Draft F : 99	Departure Draft AFF : 99		
Arrival Average Speed : 300	No of Crew : 900		
POB : 18/12/2002 15:40:00	Sailed On : 18/12/2002 15:45:00		
TDR Date : 18/12/2002 15:25:30	ETA Mad Port : 18/12/2002 15:50:00		
Imports and Exports Happened Simultaneously : No			

BUNKERS R.O.B ARRIVAL

Balast Oil Arrival : 12:21	MGO Oil Arrival : 13:33
HFO Oil Arrival : 13:12	IFO Oil Arrival : 13:14

Apple Menu, Unstarted

Departure status is prepared when the vessel is ready for departure. The screen provides to add the departure information such as container positions and so on.

SCREEN 2:

Back Forward Home Search Print Refresh Stop Go

File Edit View Favorites Tools Help Links Diagnose Database Links Free History Windows Mode Windows

Address <http://203.132.145.198/Menu.dhx?USERID=215&BRANCHID=340> Go

Management Administration Configuration Branch Entries Reports Logout

Supplied FW : 116.76

BUNKERS R.O.B DEPARTURE

Ballast On Departure : 15.34	MGO on Departure : 19.70
HFO on Departure : 11.23	IFO on Departure : 14.45
FW on Departure : 18.93	

BUNKERS CONSUMED

Average Consumed Ballast : 13.22	Average Consumed MGO : 13.23
Average Consumed HFO : 12.22	Average Consumed IFO : 11.23
Average Consumed FW : 19.78	

BUNKER REQUIREMENTS AT NEXT PORT

Required Ballast at next Port : 59.12	Required MGO at next Port : 78.12
Required HFO at next Port : 57.12	Required IFO at next Port : 56.12
Required FW at next Port : 45.23	Required At Port : CALCUTTA

Ship Master Name : VASU

Remarks : Arrived at Madras Port	Shift Remarks : Madras Port
----------------------------------	-----------------------------

Update Cancel

Back

CCA - CHARGES

Management Administration Configuration Branch Entries Reports Logout

Flat CCA - Add

* Client: 001BASKER_P_BASKER * Date (dd/mm/yyyy): 19/12/2002

* Sector: CAL-MAD * Credit Days: 3

* Invoice Branch: TUTICORIN * Collection Branch: TUTICORIN

* Support: 2 * CCA / Quot: CCA

* Effective From (dd/mm/yyyy): 19/12/2002 * Effective Till (dd/mm/yyyy): 19/01/2003

* Payment Terms: FIO * Status: Active

Description:

Existing Invoice Types	Selected Invoice Types
SURCHARGE	PRT
PHC	
PRT+SUR	
PRT+PHC	
SUR+PHC	

Voyage: TUTICORIN-CAL-MAD

Apple Mac OS, generated Internet

CCA defines the charges for the client booking that exists in the voyage. Depending upon the charges value invoice is generated.

SCREEN 2:

Management Administration Configuration Branch Entries Reports Logout

Existing Invoice Types	Selected Invoice Types
SURCHARGE	FRT
PHC	
FRT+SUR	
FRT+PHC	
SUR+PHC	

Voyage: INTERNATIONAL CEO

Add Rows:

Sl No.	CCA Type	Shipment	Container Size	Container Status	Group	OOG Type	OOG Percentage	Rate (US \$)	From	To	St
1	FRT	Local	20'	Laden	NORMAL	LF-WP-VL-H	3	1120	19/12/2002	18/01/2003	Act
2	FRT	Transjamen	40'	Prefer	NORMAL	WR-WL	6	1130	19/02/2002	18/01/2003	Act
3	FRT	Both	40'	Empty	NORMAL	WR-WL-H	1	1140	19/02/2002	18/01/2003	Act

[Back to CCA](#)

Apple Mac OS, Java enabled

INVOICE

_ | 6 | >
Back Home Search Forward Print Refresh Stop Go

File Edit View Format Tools Help
Links Microsoft Customize Links Free Help Windows Media Windows

Address http://203.132.145.139/MI/mah.cfm?USERID=22&BRANCHID=CAL

Management Administration Configuration Branch Entries Reports Logout

Creates New Invoice

Invoice NO : CAL00001	Invoice Type : FRT
Voyage : 1234	Voyage Direction : UP
Route : CAL-CBO	Vessel : TASMANIA TIGERS
Booked Sector : CAL-MAD	Exchange Rate : 1
Client : MORCLU ~ MOHANCLENT	Invoice Branch : Kolkata
Collection Branch : Kolkata	Payable By : 19/12/2002
Payment Terms : FIO	Description : Invoice

Invoice based on container level

Number of Container	Charge Type	Size/Status	Shipment	Group	OOG Type	OOG(%)	Rate / Container	Amount
2	FRT	40 / Laden	T/S	NORMAL	LF-LB-WR-WL-H	2	127.50	255.00
1	FRT	20 / Reefer	Local	NORMAL	LF-LB-WR-WL-H	2	125.48	125.48
1	FRT	20 / Reefer	T/S	NORMAL	LF-LB-WR-WL-H	2	125.45	125.45
1	FRT	20 / Empty	Local	NORMAL	LF-LB-WR-WL-H	2	128.52	128.52
Total Amount								635.46

Discount : Discount Amount : Total Amount After Discount :

[Back to Invoice](#)

Invoice is generated for the booking in the voyage. Invoice value is generated depending upon the charges value.

COLLECTION

Management Administration Configuration Branch Entries Reports Logout

COLLECTION

Client : AISSA Client Type : MLO
 Mode of Payment : Collection Date : (dd/mm/yyyy)
 Bank Name : Cheque/ D.D / T.T Number :
 Cheque/ D.D / T.T Date : (dd/mm/yyyy) Amount :
 Remarks :

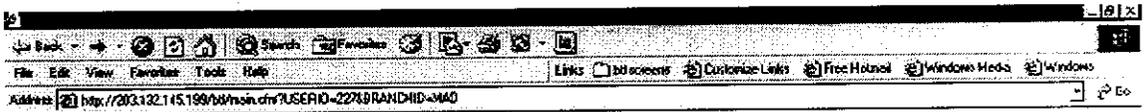
Collection Details

FREIGHT		Surchage	PHC	Total Amount (INR)
		NIL	NIL	
Invoice No. :MAD02 00001 Vessel Name : TIGER SKY Voyage No. : 33 Sector :MAD-SIM Ex Rate : 1				
Invoice Amount (USD)	130			
Pending (INR)	10			10
Current (INR)	10			10
Remarks : MAD02 0000: [Cr] 130 , MAD02 0001: [S] 1 , MAD00019 [Cr] -1 .				

Applied Manual processed

Invoice amount is to be collected. This makes an entry when the amount is collected. This contains information such as invoice no and amount.

REVENUE REPORT



Management Administration Configuration Branch Entries Reports Logout

REVENUE REPORT

VESSEL : TIGER SKY VOYAGE : 1234
 LOAD PORT : MAD OCHG PORT : 690
 REPORT DATE : 20120602 SAILED : 14000000

LINE	TOTAL UNITS	FIO RATE	FRT PAYMENT RATE	TERMS	TOTAL FREIGHT	BTLAC	DCHG PNC	LOAD PNC	PAYABLE AT	PAYABLE AT	PAYABLE AT
3	1 X20L TS 009	1,230.00	1,230.00	FIO	1,230.00	1,230.00	0.00	0.00	MAD	CBD	MAD
TOTAL :					1,230.00	1,230.00	0.00	0.00			

NOTE:	PAYABLE AT	BTLAVE	DCHG PNC	LOAD PNC
	MAD/MAS	1,235.00	0.00	0.00
TOTAL		1,235.00	0.00	0.00

TOTAL UNITS:
 1X20 & 0X40 & 0X45 LADEN
 0X20 & 0X40 & 0X45 REEFER
 0X20 & 0X40 & 0X45 EMPTY

REMARKS:
 1. CLIENT/RAU BILLING & PAYMENT AT MAD
 2. FOLLOWING NO CONTAINERS LOADED
 1 X 20' LADEN - RC 3 000 - LF-UB-WB-WC-H



Revenue Report is a special form of report, which is generated after departure status; this gives information about revenue which is going to be got, with this voyage.

CCA REPORT

CCA Report Page No. 1

Charges_ID : 36 Date : 20/12/2002
 Client : CUENTRAJ Description : MADRAS CUENT
 Sector : MAD-CBO Credit Days : 0
 Collection Branch : MAD Invoice Branch : MAD
 Effective From : 20/12/2002 Effective Till : 19/01/2003
 CCA Type : FLAT CCA Status : Active

Shipment	Container Size	Container Status	Start Point	End Point	Group	CCG Type	CCG %	Status	Charge Type	Rate (in USD)
Transshipment	20	LADEN	--	--	NDGMAL	LF-LB-WR-WL-FS	3	Active	FR7	1200.00

This report mentions the cca information for the clients and sector.

SCREEN 2:

Management Administration Configuration Branch Entities Reports Logout

LOADING SUMMARY(COLOMBO)

MLO'S	LADEN			REEFER			EMPTY			TOTAL			WEIGHT
	20'	40'	45'	20'	40'	45'	20'	40'	45'	20'	40'	45'	
A/C : BTL													
3	1	0	0	0	0	0	0	0	0	1	0	0	1,200.00
TOTAL	1	0	1	0	0	1,200.00							
TOTAL UNITS	:			1									
TOTAL TEUS	:			1									

Applet Manager started Internet

TERMINAL ARRIVAL REPORT:

The screenshot shows a web browser window with the following content:

BENGAL TIGER LINE (INDIA) PVT. LTD. **MAXLINK**

Management Administration Configuration Branch Entries Reports Logout

TERMINAL ARRIVAL REPORT

VESSEL NAME : TIGER SKY
 LOAD PORT : MADRAS
 SAILED ON : 03/01/2003 20:10
 DATE : 20/12/2002

VOYAGE NO : 1234
 DISCHARGE PORT : COLCHMO
 ETA : 15/02/2003 10:10
 PAGE NO : 1

SL NO	CONTAINER NO	STOWAGE			SIZE	STATUS	GROSS WEIGHT	COMMODITY	PLACE OF DELIVERY	LINE
		BAY	ROW	TIER						
1	ABC123DEF01	01	02	03	20	LAD	1,200	CARGO	CBO	CLENTRAJ

This report is generated after preparing arrival status. This gives the information about containers that are ready to discharge at that particular port.