KUMARAGURU COLLEGE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Coimbatore – 641006

April 2003.

EXECUTIVE INFORMATION SYSTEM – SERVER SIDE INCLUDES

PROJECT WORK DONE AT

INDIAN OIL CORPORATION LTD

CHENNAI.

PROJECT REPORT

Submitted in partial fulfillment of the requirements for the award of the Degree of **Master of Computer Applications** of Bharathiar University, Coimbatore.

SUBMITTED BY

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REG. NO.: 0038M1069

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CERTIFICATE

KUMARAGURU COLLEGE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Coimbatore – 641006

April 2003.

CERTIFICATE

This is to certify that the project work entitled

"EXECUTIVE INFORMATION SYSTEM – SERVER SIDE INCLUDES"

Done By

Srinivas. J
Reg. No. : 0038M1069

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

Professor and HOD

Internal Guide

Submitted to University Examination held on 16.07.2003

Internal Examiner

External Examiner

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sion

SRT/34
06.03.2003

To
Prof.Dr.S.Thangasamy, Ph.D.,
Professor and Head,
Dept. of Computer Science and Engineering,
Kumaraguru College of Technology,
Coimbatore – 641 006.

Dear Sir,

CERTIFICATE

This is to certify that ***Shri J.Srinivas*** has done his project on **"Executive Information System – Server Side Includes"** at our Organisation from December 2002 – March 2003. During this period, his conduct and character was found satisfactory.

6/3/03.

(S.GANESH KUMAR)
MANAGER(TRG)

DECLARATION

DECLARATION

I here by declare that the project entitled " **EXECUTIVE INFORMATION SYSTEM-SERVER SIDE INCLUDES**", submitted to Bharathiar University as the project work of Master of Computer Application Degree, is a record of original work done by me under the supervision and guidance of Mr.T.R.Murali, Deputy IS Manager, **Indian Oil Corporation Ltd., Chennai** and Miss. N.Rajathi M.E Senior Lecturer, Department of Computer Science & Engineering, Kumaraguru College of Technology and 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.

Name of Candidate	Register Number	Signature
J.SRINIVAS	**0038M1069**	J. Srinivas

Place: Coimbatore

Date: 10.4.2003

ACKNOWLEDGEMENT

ACKNOWLEDGMENT

To add meaning to the perception, it is my indebtedness to honor a few who had helped me in this endeavor, by placing them on record.

With profound gratitude, I am extremely thankful to Dr.K.K.Padmanaban B.Sc. (Eng.), M.Tech, Ph.D., Principal, Kumaraguru College of Technology, Coimbatore for providing me an opportunity to undergo the M.C.A (Master of Computer Application) course and there by this project work also.

I extend my heartfelt thanks to my CSE department head Prof.Dr.S.Thangasamy B.E (Hons), Ph.D., for his kind advice and encouragement to complete this project successfully.

It's my privilege to express my deep sense of gratitude and profound thanks to Mr..S.Ganesh Kumar, Manager Training of Indian Oil Corporation Ltd., for having allowed me to do my project work in his esteemed team and for helping me in all means in successful completion of this project work.

Gratitude will find least meaning without thanking my guide Miss.N.Rajathi B.E and course coordinator Mr.A.Muthukumar M.Sc., MCA.,M.Phil for the valuable guidance and support throughout my project.

Words are boundless for me to express my deep sense of gratitude and profound thanks to Deputy IS Manager Sri. T.R.Murali and to my Junior IS Manager Sri. S.Gunasekaran and all my associates at Indian Oil Corporation Ltd., for all their kind guidance and encouragement towards my project work.

My gratitude is due to all staff members of CSE department, my parents and all my friends for their moral support and encouragement for successful completion pf my project

SYNOPSIS

SYNOPSIS

The objective of "**Executive Information System – Server Side Includes**" is to gather data from various branches of IOC and to generate the reports which is used for Management purposes in the administration level. There are four states coming under the southern region namely Tamil Nadu, Kerala, Andhra Pradesh and Karnataka. The systems in the regional office have to dialup to their Divisional Office, State Office and Territory Office to gather flat files and finally producing the consolidated reports for the IOC products.

This project contains four modules namely *Authentication and Authorization, File transferring; Flat file Processing and Formatting Data.* Authentication and Authorization provides the security for the system. File transferring is done using FTP and MSCOMM control. Flat file Processing examining the downloaded file and converting it into compatible file format. Filtering and storing the data is done by Formatting Data module. Once the data is inserted in to the database then required reports like *Ten product report, Daily update report* and *Daily FTP report* can be generated. These details provide sufficient information for the Management level.

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CONTENTS

INTRODUCTION

1. INTRODUCTION

1.1 PROJECT OVERVIEW

The explosion in the size and complexity of today's local and wide area networks, combined with the increasing demands placed upon them for their resources has resulted in establishing remote file access as a factor of paramount importance

"Executive Information System – Server side includes" is used to receive files and then insert those data into database. It uses Java for Intranet file transferring and update file to database. Moreover MSCOMM control is developed in Visual Basic to transfer file for those offices does not have Intranet or Internet facilities.

- Authentication & Authorization.

  Username and password is check in local database for proper entry of the system.

- Flat file Processing

  Examining the downloaded file and converting it into compatible file format.

- File Transfer.
  - ❖ Intranet

    Remote file were fetched using File Transfer Protocol (Java).
  - ❖ Dial Up.

    Remote file were fetched using Telephone connection (VB).

- Formatting Data.

  The downloaded file is formatted using delimiter and stored in MS-SQL Database.

1.2 ORGANIZATIONAL PROFILE

Indian Oil Corporation (IOC) continues to be the country's largest commercial organization. It is presently the only Indian Company to be featured in the Fortune Global 500 listing and improved its ranking from 317 to 257 this year. Among the top Asian companies, it is currently ranked 76. The Govt. of India has identified Indian oil as one of the 'Navaratnas' with a potential to emerge as a global giant.

Customer focus as a customer-friendly organization, Indian oil has always aimed to provide its customers prompt, courteous and efficient service, and quality products at reasonable prices. The retail visual Identity programme - 'Vision - 2000' - has ushered in 'new look' retail outlets across the country. These have selectively 'convenio' shopping store, snap services, quick lube oil change, and automatic car wash, unmanned card operated pumps and 24-hours ATM. A start has recently been made in Introduction of multi-fuel dispensing units. Over 1200 retail outlets were upgraded under the 'Vision-2000' programme during 1996-97. In line with its commitment to environment protection, low sulphur diesel was introduced in the metros and later in the Taj Trapezium area low lead petrol which had earlier been introduced in the metros and radial routes, was extended to cover all over the country effective January 1997. For easy product availability, Indian oil commissioned 146 petrol/diesel stations and 51 SKO/LDO dealerships during the year raising their total number to 6731 and 3413 respectively. The reseller points and consumer outlets are assured of uninterrupted product supplies from 47 Coastal and inland installations and 131 bulk depots. To cater to the fuel and other special needs of rural areas, the Corporation has set up 231 multipurpose distribution centers. In addition, 33 Taluka Kerosene Depots are operating to augment availability of kerosene in remote and far-flung areas. To enhance the range of products offered to our customers, regular marketing was begun of Hexane ex-Koyali refinery and Propylene and IOC Solvent' 95 ex-Mathura refinery.

During the year, Indianoil assisted 37 private parties in the import of SKO for sale of 2.6 lakhs tonnes under the parallel marketing scheme.

Indian oil's Aviation Service continued to be the market leader in the aviation fuel business with a market share of 68% through sales of 1.51 million tonnes. The total aviation fuel requirement of the Indian Navy and Army and over 89% of the Indian Air Force, besides, the requirements of other market segments like Indian Airlines, Air India, private airlines and International airlines were catered to by the Corporation. With the setting up of an aviation fuel station (AFS) at Bhuj, the Corporation has 92 AFSs to meet customer needs. Indian Oil continues to provide technical assistance to neighbouring countries like Maldives, Nepal and Bhutan.

Indian oil's Research & Development Centre, which completed 25 years on 10th March, 1997, was showered with accolades during fiscal year 1996. Its titanium complex grease, patented in USA and Australia, won the National Research Development Corporation (NRDC) award 1996 as the 'best invention of the year'. It also bagged the silver medal of the World Intellectual Property organization, an arm of UNIDO, as well as the ICMA citation award for the best Invention. The Federation of Indian Chamber of Commerce (FICCI) selected it for the 1996 Annual Award for best contribution In Service & Technology. Commercial production of this novel grease has already commenced and is marketed under the brand name SERVO Titex HT. During the year, the R&D Centre developed a catalytic converter for two and three wheelers which has also been field-tested. Formulations for 80 new products were developed during the year and approvals obtained from 21 International & National Equipment Manufacturers for SERVO lubricants. With the commissioning of the multi purpose pilot plant during the year, the scale-up of R&D efforts at commercializing new technologies is expected to receive a boost

. Local Area Networks installed at HO, Regions, State Offices, Divisional Offices, Terminals, Depots, LPG Bottling plants and AGSs. Lotus Notes mail implemented at HO, Regions and State Offices. A virtual private network set-up between Corporate Office, Head Office and Koyali Refinery using Windows 2000 Advanced Server. Guruji Groupware package was further upgraded. Multi-point video-conferencing installed at Head Office, Regions and State Offices.

SYSTEM STUDY

2.SYSTEM STUDY

2.1 EXISTING SYSTEM

The Existing system is partially manual. The company receiving flat files from various offices (State, Divisional, Territory) through Fax machine or Floppy. Then they enter these flat files into system and then insert those data into Database, which they may use for further manipulation.

Problem faced in the existing system

- Time consuming process.
- Require lot of manpower.
- Cost ineffective.
- If the file size is too large then it cannot be transferred by floppy.

NEED FOR PROPOSED SYSTEM

The existing system was studied to get an overview about the proposed system. There was manual process of file transfer between systems either by Fax or Floppy. This kind of activities is time consuming and hence in order to overcome the above said difficulties the need for the proposed systems arises.

2.2 PROPOSED SYSTEM

The proposed system aims to provide better solution to the problem encountered in the existing system. The Proposed system fully automates file transfer and report generation. The proposed systems were using Java and Visual Basic 6.0.

Features of proposed system

- No file size limitation.
- Handle various errors occurring during transferring files, insert data into database
- Reducing manpower and time.
- Cost effective.
- User friendly.

PROGRAMMING ENVIRONMENT

3. PROGRAMMING ENVIRONMENT

3.1 HARDWARE CONFIGURATION

Server Machine

RAM – Minimum 256 MB

HARD DISK capacity – 20 GB IDE

CPU – PENTIUM III or above

MONITOR – SVGA Color monitor

KEYBOARD – 104 keys keyboard

MOUSE – Windows PS/2 – two buttons

NIC (LAN) card – INTEL PCI PRO 100 or above

Modem - Rockwell 128KBPS

Client Machine

RAM – Minimum 64 MB

CPU – PENTIUM II or above with Windows 95/98/ Windows NT

MONITOR – SVGA Color monitor

KEYBOARD – 104 keys keyboard

MOUSE – Windows PS/2 – two buttons

NIC (LAN) card – INTEL PCI PRO 100 or above

Modem - Rockwell 128KBPS

3.2 SOFTWARE CONFIGURATION

The following Technologies have been used in the development of EIS –Server Side Includes.

Front End / User Interface	:	Java, Java Swing.
Back End / Business Logic	:	Microsoft SQL-Server 7.0
Protocol	:	File Transfer Protocol.
IDE	:	Sun ONE Studio 4 Update1, Community Ed

SYSTEM DESIGN

4. SYSTEM DESIGN

The system design is the final phase that indicates the proposed system and its process.

4.1 DATA BASE DESIGN

Database design are crucial in managing the data received through the forms, the management of data involves both the definition of structures for storage of information for the mechanism of information .In addition, the database, must have a unique and appreciable security features.

A good database must furnish the following:

- Ease of use
- Data independence
- Accuracy and integrity
- Recovery from failure
- Performance

Data redundancy can be controlled by extensive normalization of the tables.

The Executive Information System – Server Side Includes consists of tables that are normalized to maximum extend, the normalization is the process of simplifying the relationship between data elements in a record

Normalization has been carried out for 4 reasons:

- To structure the data so that any persistent relationship between entities can be represented.
- To permit simple retrieval of data in response to query and reports required
- To simplify data maintenance procedures such as insertion, deletion and updating.

The database tables used in the system in desired in Appendix A.

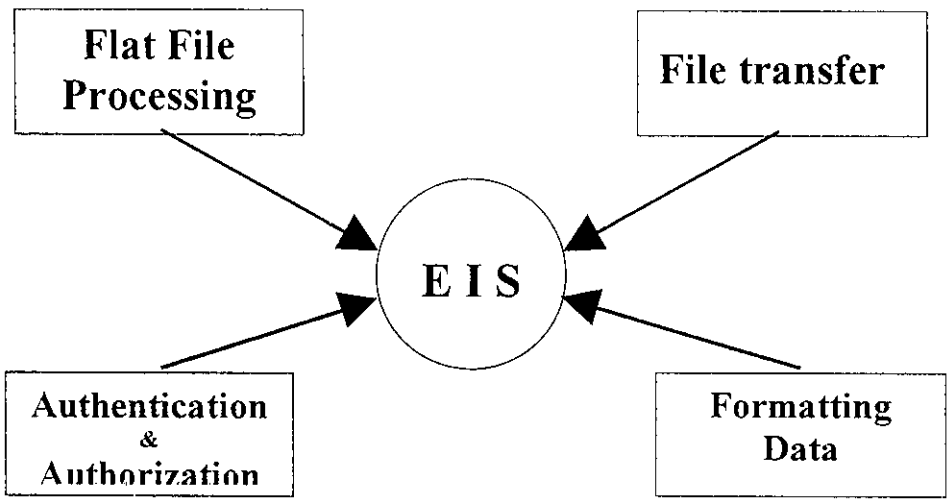
4.2 Process Design

The process design is defined as a ordered set of events that accomplishes some tasks required for a system. The events are actions, operations, or series of changes taking place in a definitive manner.

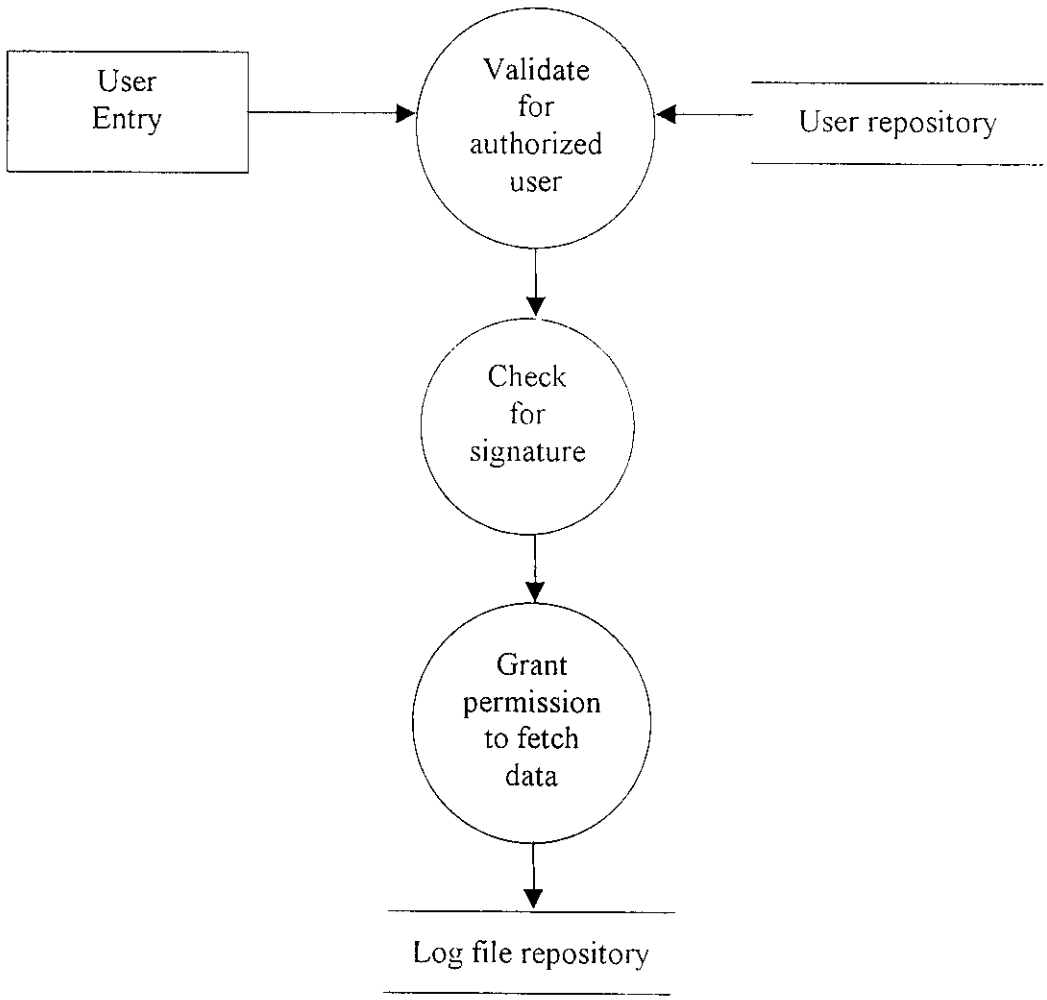
Process design consists of three levels polices, procedures and standards. The architectural framework provides a definition for basic elements, how they relate and how are decomposed into greater detail, the basic element of process design is unit cell.

A DFD consists of numerous unit cells which is defined to the accomplish a specific task and is uniquely identified. Each cell has required entry condition with inputs, task standards, procedures, methods, responsibilities and measures. Exit conditions define the result produced, there level of validation, and may post task condition.

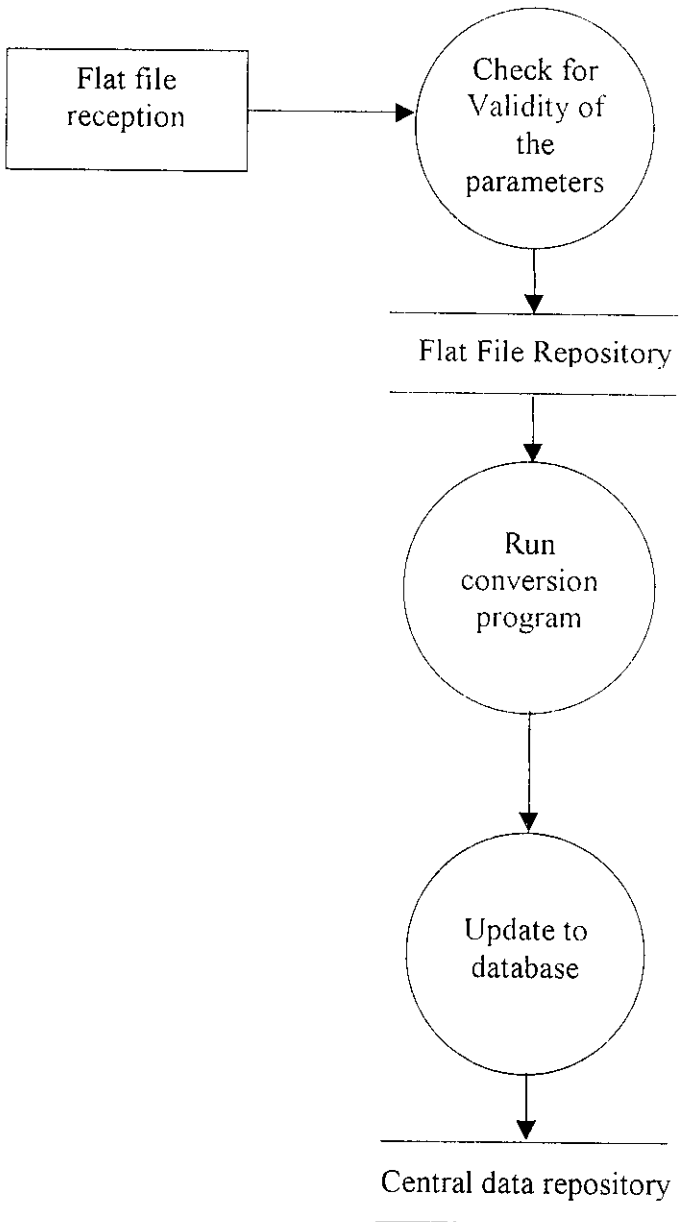
Overview of EIS

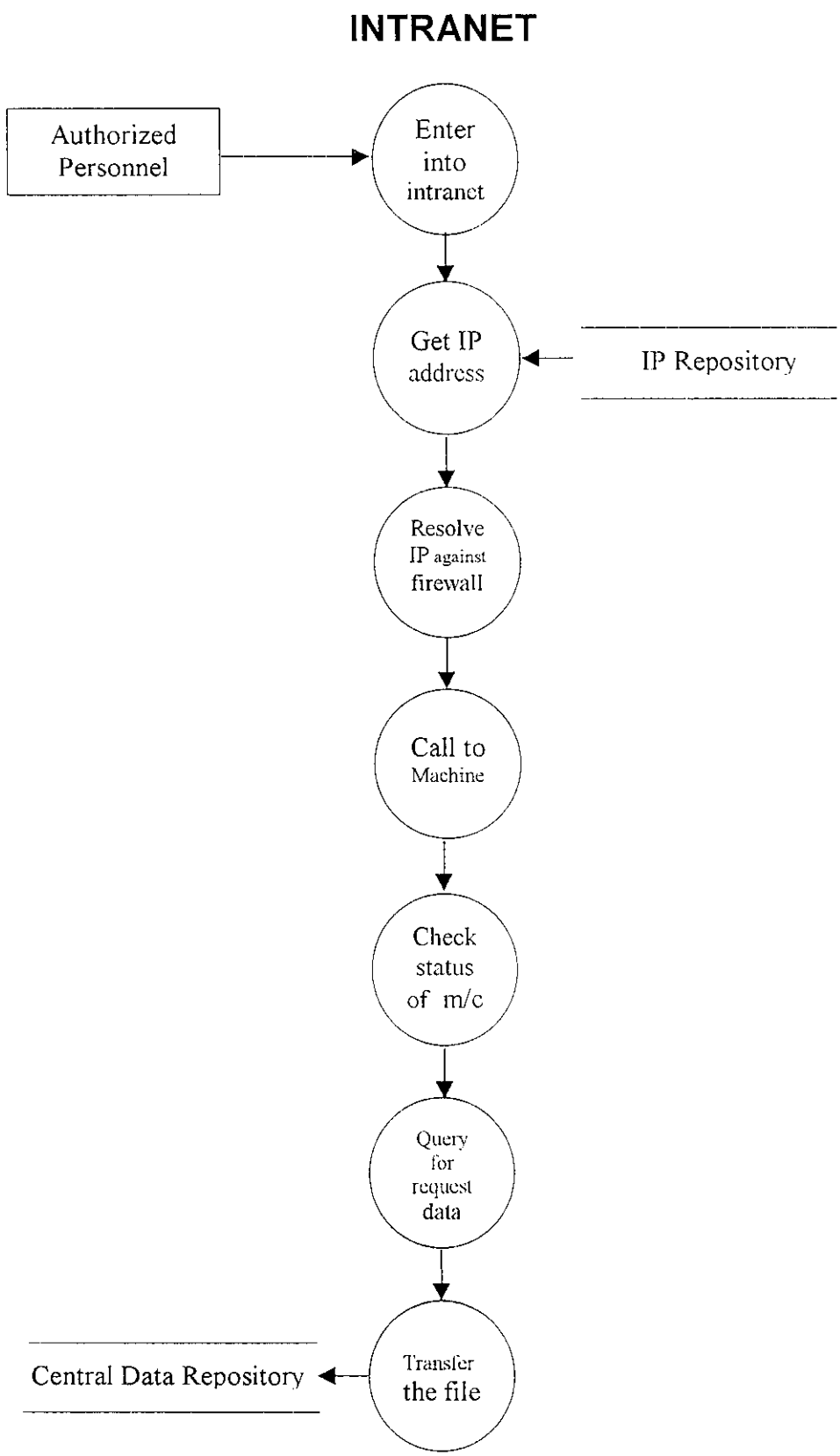


AUTHENTICATION AND AUTHORIZATION

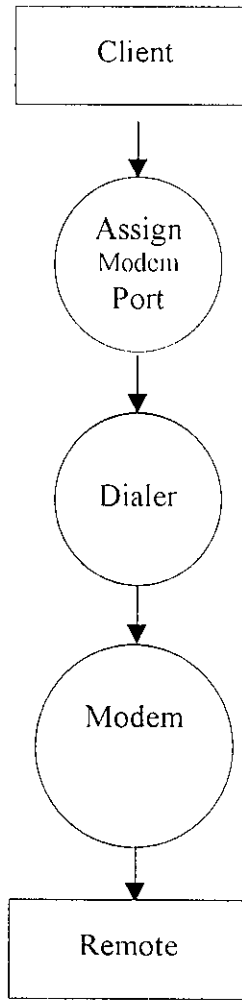


FLAT FILE PROCESSING

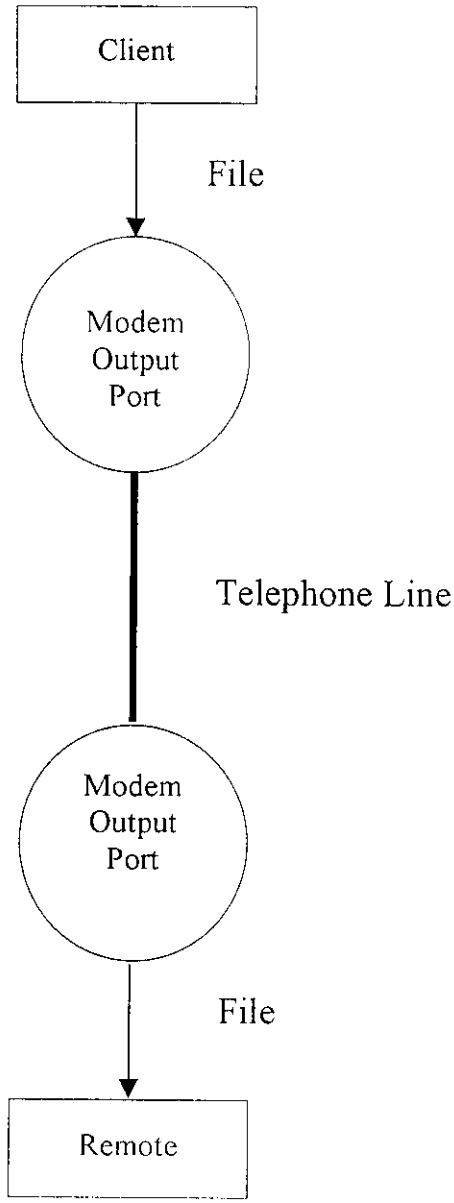



INTRANET
Authorized Personnel
Enter into intranet
Get IP address
IP Repository
Resolve IP against firewall
Call to Machine
Check status of m/c
Query for request data
Transfer the file
Central Data Repository

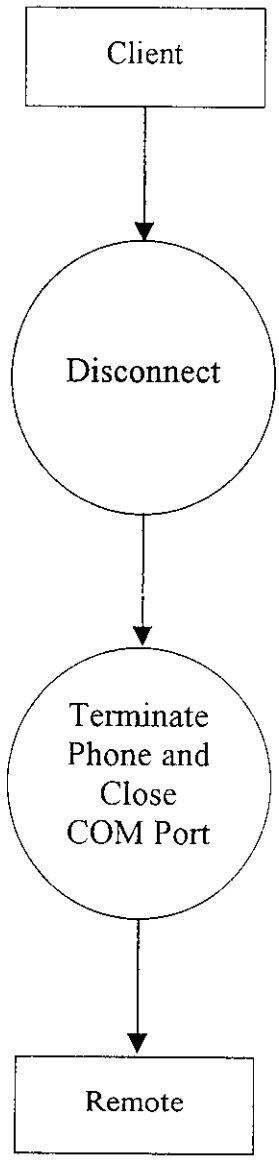
DIAL UP - CONNECTION ESTABLISHMENT



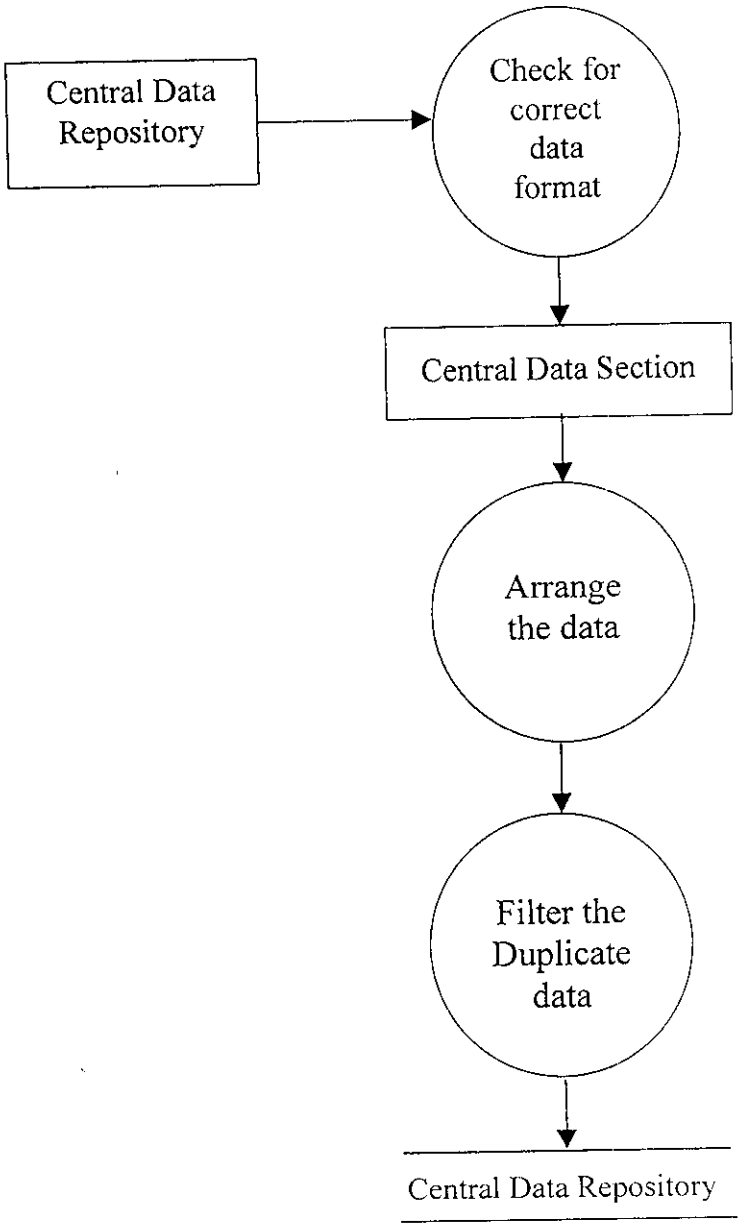
DIAL UP – RECEIVING MODULE



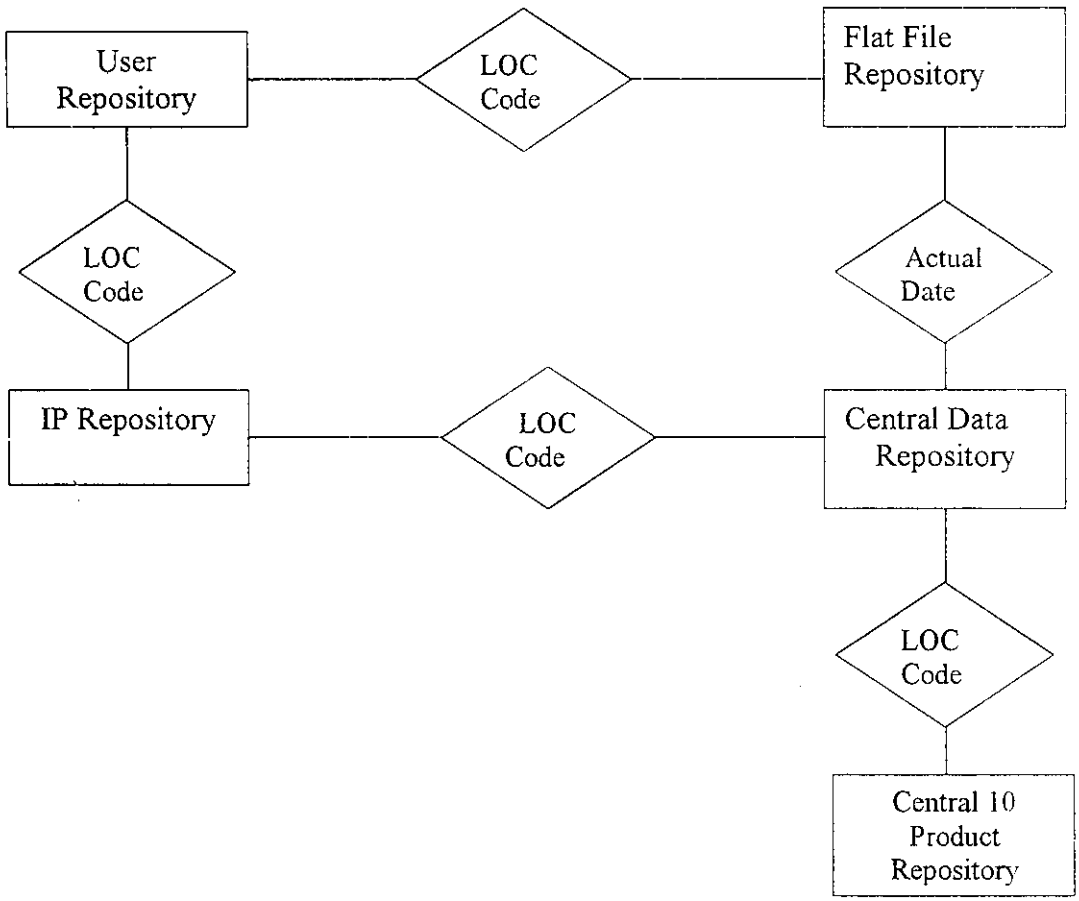
DIAL UP – DISCONNECTION



FORMATTING FILE



Entity Relation Diagram



SYSTEM IMPLEMENTATION AND TESTING

5. SYSTEM IMPLEMENTATION & TESTING

5.1 SYSTEM IMPLEMENTATION

Implementation is the stage of the project when the theoretical design is turned into a working system. At this stage the main workload, the upheaval and the major impact on the existing practice shifts of the user department. If the implementation stage is not carefully planned and controlled. It can cause chaos. Thus it can be considered to be the 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 methods to achieve the changeover, training of staff in the changeover procedures and evaluation of changeover methods. The first task is implementation planning, i.e., deciding on the methods and time scale to be adopted.

Once the planning has been completed, the major effort in the 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.

Education involves creating the right atmosphere and motivation the user. Staff education section encourages participation from all sides.

CODING:

Conversion of design specification into source code in the software product developed includes the usage of set of factors given below:

Structured Coding Techniques:

- Single Entry, Single Exit Constructs.
- Efficiency Considerations.

Coding Styles:

- Use of few Standards, agreed upon control constructs.
- Use of User defined data types.

In the code sheet, the code written for particular event of the selected object will get executed if the control acquires the object. For Example, control passes through the code written in the key code event of the object, says Text Box, if the key press action takes place in the corresponding Text Box on the screen. This implies that the data variables and functions written for that object are encapsulated to it. Hence the security for the execution of code holds goods. Also comments have been included in the coding when the part of the program needs to specify the remarks.

Documentation Guidelines:

Supporting documents such as requirement specifications, design documents, test plans and maintenance reports have been included. Thus documents are the result of systematic development and maintenance of software.

Program until completion notebook has been maintained on the due date of the module's completion. Also remarks are entered which are then referred in further coding.

Internal Documentation:

This consists of a standard prologue for each program init with the commenting conventions in it. The factors that are used in the commenting conventions are as follows.

- The needs are attached to block of code that perform major data manipulations perform Exception Handling.
- The needs for embedding the comments are minimized.
- Blank lines, border and identification to highlight the comments have been used.

Comments and code are written in such a way that they agree with each other and with the requirements and design specification.

5.2 SYSTEM TESTING

Software testing can be looked upon as one among the many processes. This is the last opportunity to correct any possible flaws in the developed system. Software testing includes selection test and test data that have more probability of finding errors.

System is the stage of implementation that is aimed at ensuring that the system works accurately and efficiently before live operation commences. In principle, system proving is an on-going activity throughout the project.

The logical design and the physical design should be thoroughly and continually examined on paper to ensure that they will work when implemented. Thus the system test in implementation should be a confirmation that all is correct and an opportunity to show the users that the system works.

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 – an assurance that the performance.

System testing is the most useful practical process of executing a program with explicit intention of finding errors that make the program fail. The following phases were developed.

Test Plan:

This document describes the plan for testing the shape factor computation and it's GUI software. All major testing activities are specified here.

Test Units:

In this project i perform two levels of testing Unit Testing and System Testing. The basic units to be tested are:

- Modules and Object of Database
- Modules and Object operation to forms and menus

The testing for these different units will be done independently.

Features to be tested:

1. All the functional features specified in the requirement document will be tested.
2. Performance testing will be done to
    - Increase system speed
    - Decrease saving time response.
    - Decrease the time taken for request and response from server.

Approach for Testing:

For Unit testing, structural testing based on statement, branch and path coverage criteria will be used as per need in the modules and operations. The goal is to achieve branch and path coverage of more than 95%. The focus is on the invalid and valid cases boundary value and special cases.

Test Deliverables:

The following documents are required (besides this test plan):

a. Unit report for each unit.
b. Test case specification for System Testing.
c. The report for system testing.
d. Error report.

The test case specification for system testing has to be submitted for review testing commences.

Unit Test Report:

Here i present the test report for major modules and operation., the goal of testing is to achieve over 95% branch or path coverage.

Black Box Testing:

This is conducted at the software interface. This test though is designed to uncover errors, is used to demonstrate that software functions are operational., input is properly accepted and outputs are produced correctly and that integrity of external information is maintained. Black box testing attempts to find errors in the following categories.

- Incorrect or missing functions.
- Interfaces errors.
- Errors in data structure/external database access.
- Performance and termination errors.

Accordingly, all the inputs to each if the modules were checked and like wise all the outputs were tested to meet requirements of the system under development.

White Testing:

White box testing of software is predicated on close examination of procedural details. Providing test cases that exercise specific tests of condition and/or loops tests logical paths through the software. White box testing attempts to guarantee that all independent paths within a module have been exercised atleast once.

Integration Testing

The objective is to take unit tested modules and build the program structure that has been dictated by design. All modules are combined in advance. The entire program is tested as a whole.

In Integration testing the modules are combined to form clusters. Each of these clusters is tested using a driver. In general, a combined approach (sometimes called sand witch testing) that uses the top down strategy for the upper levels of the program structure, coupled with a bottom-up strategy for subordinate level can be considered as the best.

Thus the different units that were tested were put together to see its functionality and flow of data from module to module.

Refinement based on feedback

Proper unit testing had been underwent to check that the changes made to the system as a result of feedback after testing, have not affected the modules of the system.

CONCLUSION

6. CONCLUSION

This system has been developed to overcome all the difficulties that were faced in the manual file transfer method. The whole system is automated which reduces the workload and eliminates the error that creep into the system by providing proper validation techniques.

The programming techniques used in the design of the system provide a scope for further expansion and implementation of any changes, which may occur in future. The various reports generated by the system have provided to be quite useful.

The system has been tested with sample data covering all possible options for each function. Its performance is satisfactory. The system is under implementation.

This system is developed with the specifications and abiding by the existing rules and regulations of the company.

Since the requirements of any organization and their standards are changing day to day the system has been designed in such a way that its scope and boundaries could be expanded in future with little modifications. As a further enhancement this system can be integrated with any other system.

This package has been developed using JAVA and VB for designing phase and SQL Server for storage of data. The main aim behind the development of this package is to provide a comprehensive solution that is capable of handling and meeting the company's stated and implied requirements.

FUTURE ENHANCEMENTS

7. FUTURE ENHANCEMENT

- Simultaneously receiving multiple files.
- Faster file transfer than current times.
- Communication between systems in a full duplex mode.
- Transferring multimedia data.
- Automated report creation.
- Telephonic conferencing,
- Suggestions and tips for the accurate usage help line.
- Automatic error and bug tracking facility.

BIBLIOGRAPHY & ONLINE REFERENCES

8. BIBLIOGRAPHY

[1] Herbert Schildt, "Java 2 – The Complete Reference ", TataMcGrawHill, 3rd edition, 2001.

[2] Dr. Satyaraj Pantham, "Pure Java Swing", SAMS Techmedia, 2nd edition, 1999.

[3] Elliotte Rusty Harold "Java Secrets", Comdex Computer Publishing, 1st edition, 2002.

[4] Rob Thayer, "Visual Basic 6 Unleashed, ", SAMS, 1st edition, 1998.

[5] Kurt Cagle, "Visual Basic Client/ Server and Programming ", Comdex Computer Publishing, 1st edition, 1999.

[6] Gayle Coffman, " SQL Server 7 -Complete Reference", Tata – McGraw Hill, 1st edition, 1999.

[7] Ronald R.Talmage, "Microsoft SQL Server 7", BPB Publications, 1st edition, 1999.

[8] Elias M Award "Systems Analysis & Design," Prentice Hall India, 10th edition, 1999.

[9] Richard Farley "Software Engineering," ABJ Publishing, 1st edition, 1998.

Online References

1. www.microsoft.com
2. www.vbip.com
3. www.sun.java.com

APPENDICES

APPENDIX

A. DATA DICTIONARY

Table Description:

Table Name	Description
LOGIN	User / password is stored in this table.
SALES	IOC products are maintained
LOCATION	Various location of IOC office
PHONE	Phone number of territory office
FTP	Details of downloaded file
UPDATE_DB	Details of File Inserting Process

Table Design

1. LOGIN

Field Name	Data Type	Size	Description	Key Relationship
username	Text	15	ID for user authentication	Primary Key
password	Text	15	Password for user authentication	
Permission	Text	4	Privileges of user	

2. LOCATION

Field Name	Data Type	Size	Description	Key Relationship
Lcode	number		Location code	Primary Key
Lname	Text	20	Location name	
St_name	Text	2	State name	
Ipaddress	Text	20	IP address	
u_name	Text	10	Username	
Password	Text	15	Password	
Pathname	Text	30	Pathname of file	

3. PHONE

Field Name	Data Type	Size	Description	Key Relationship
Lcode	Number		Location code	Foreign Key
Phonenumber	Text	15	Phone number	

4. SALES

Field Name	Data Type	Size	Description	Key Relationship
do_code	Number		Divisional office code	Primary Key
Loc_code	Number		Location code	Foreign Key
Chln_da	Date		Chelan date	
Actu_da	Date		Actual date	
Date_in	Text	1	Status	
Msr	Number		Motor spirit retailer	
Msc	Number		Motor spirit consumer	
Mst	Number		Motor spirit total	
Hsdr	Number		High speed diesel retailer	
Hsdc	Number		High speed diesel consumer	
Hsdt	Number		High speed diesel total	
Skor	Number		Superior kerosene oil retailer	
Skoc	Number		Superior kerosene oil consumer	
Skot	Number		Superior kerosene oil total	
Ldor	Number		Light diesel oil retailer	
Ldoc	Number		Light diesel oil consumer	
Ldot	Number		Light diesel oil total	
Fo	Number		Furnace oil	
Lshs	Number		Low Sulphur High Speed diesel	
Bitp	Number		Bitumen	
Bitb	Number		Bitumen	
Bittot	Number		Bitumen total	
Lubr	Number		Lube retailer	
Lubc	Number		Lube consumer	
Lubt	Number		Lube total	
Grer	Number		Grease retailer	
Grec	Number		Grease consumer	
Gret	Number		Grease total	
Lpgr	Number		Liquid petroleum gas retailer	
Lpgc	Number		Liquid petroleum gas consumer	
Lpgt	Number		Liquid petroleum gas total	
Nath	Number		Naphtha	
Atf	Number		Aviation Turbine Fuel	
Others	Number		Others	

5. FTP

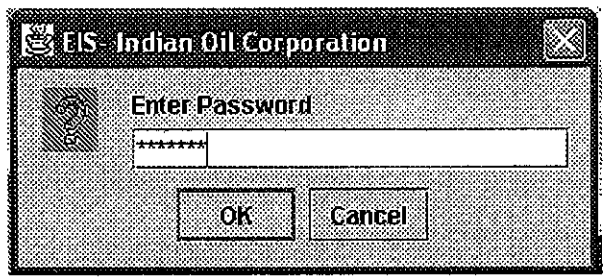
Field Name	Data Type	Size	Description	Key Relationship
Lcode	Number		Location code	Foreign Key
Date	Date		Date of ftp	
Dialedtime	Time		Ftp dialed time	
Status	Text	25	Status of ftp	
Filesize	Number		File size	
Timetaken	Number		Time taken for ftp	

6. UPDATE_DB

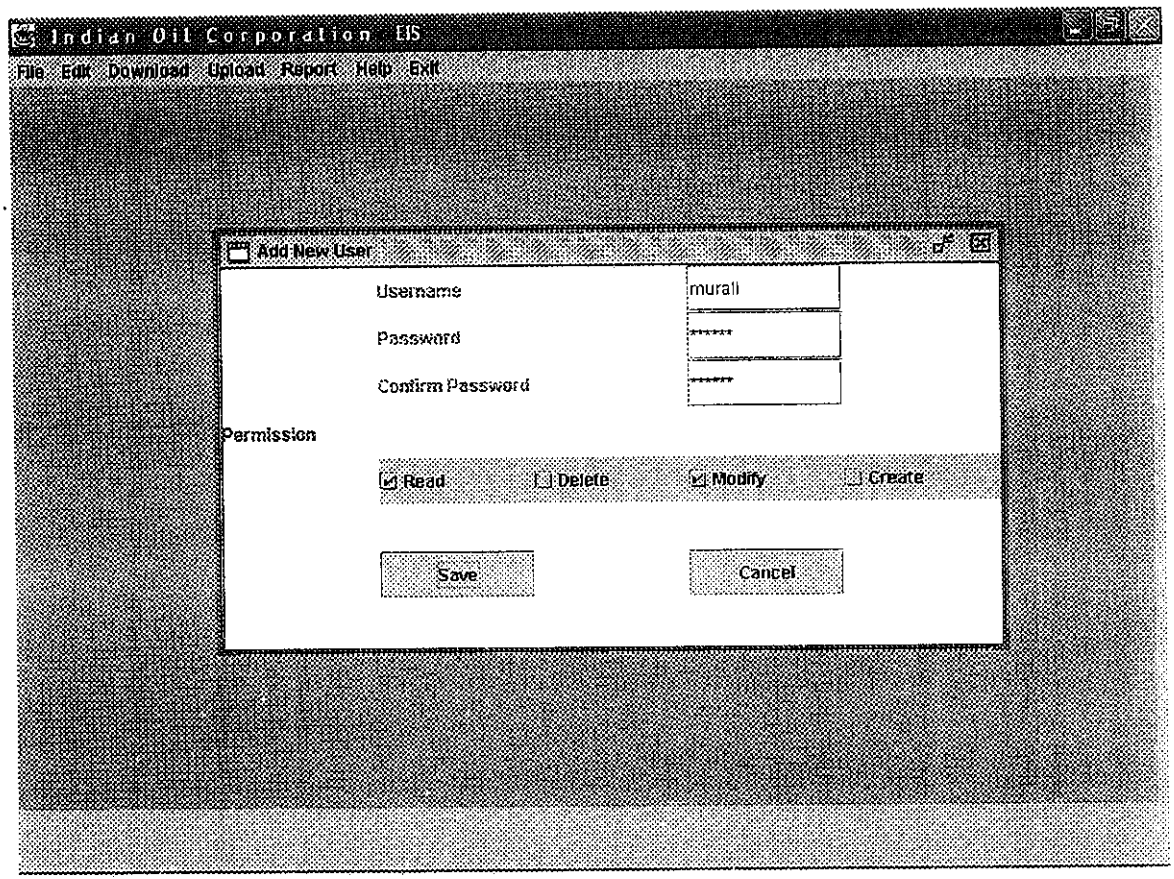
Field Name	Data Type	Size	Description	Key Relationship
Lcode	Number		Location code	Foreign Key
Date	Date		Date of insertion	
Dup_rec	Number		Number of duplicated records	
Ins_rec	Number		Number of inserted records	
Tot_rec	Number		Total records	
Timetaken	Number		Time taken for insertion	

B. Screens

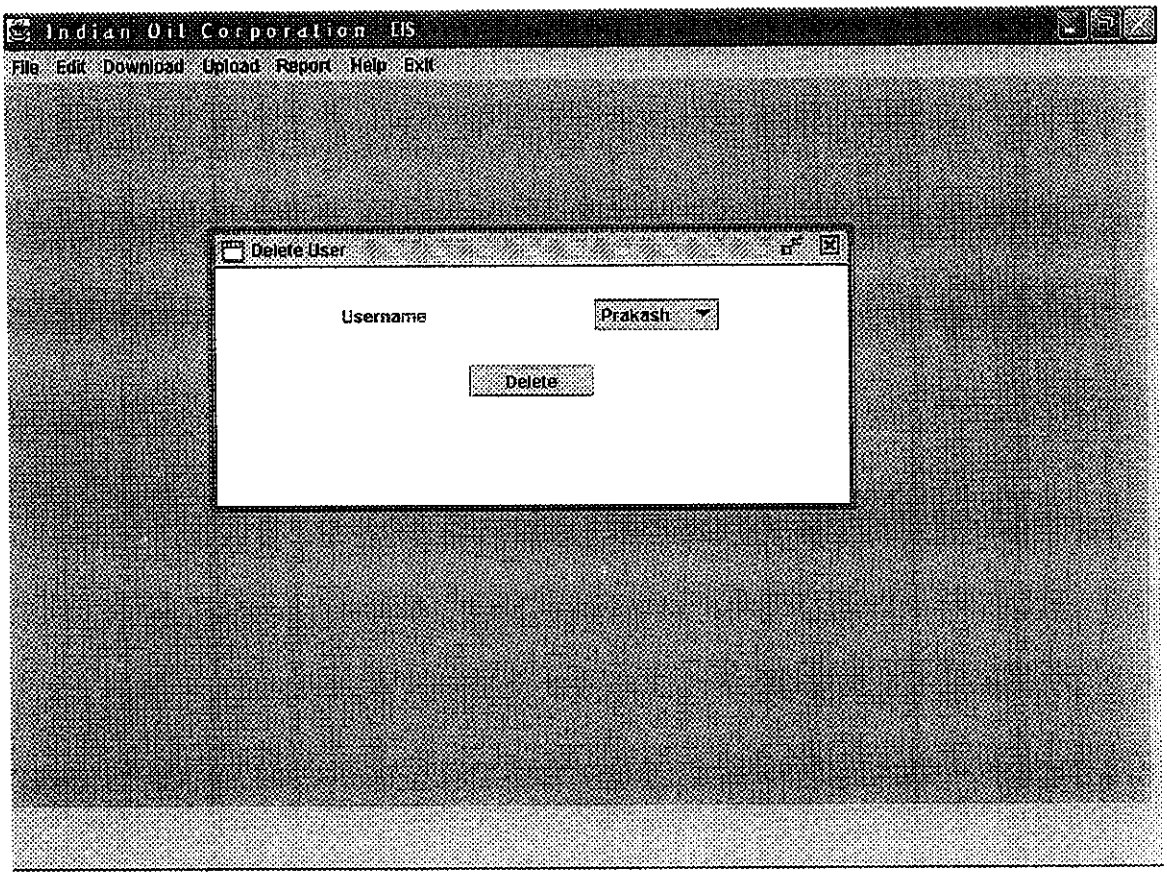
Login Screen



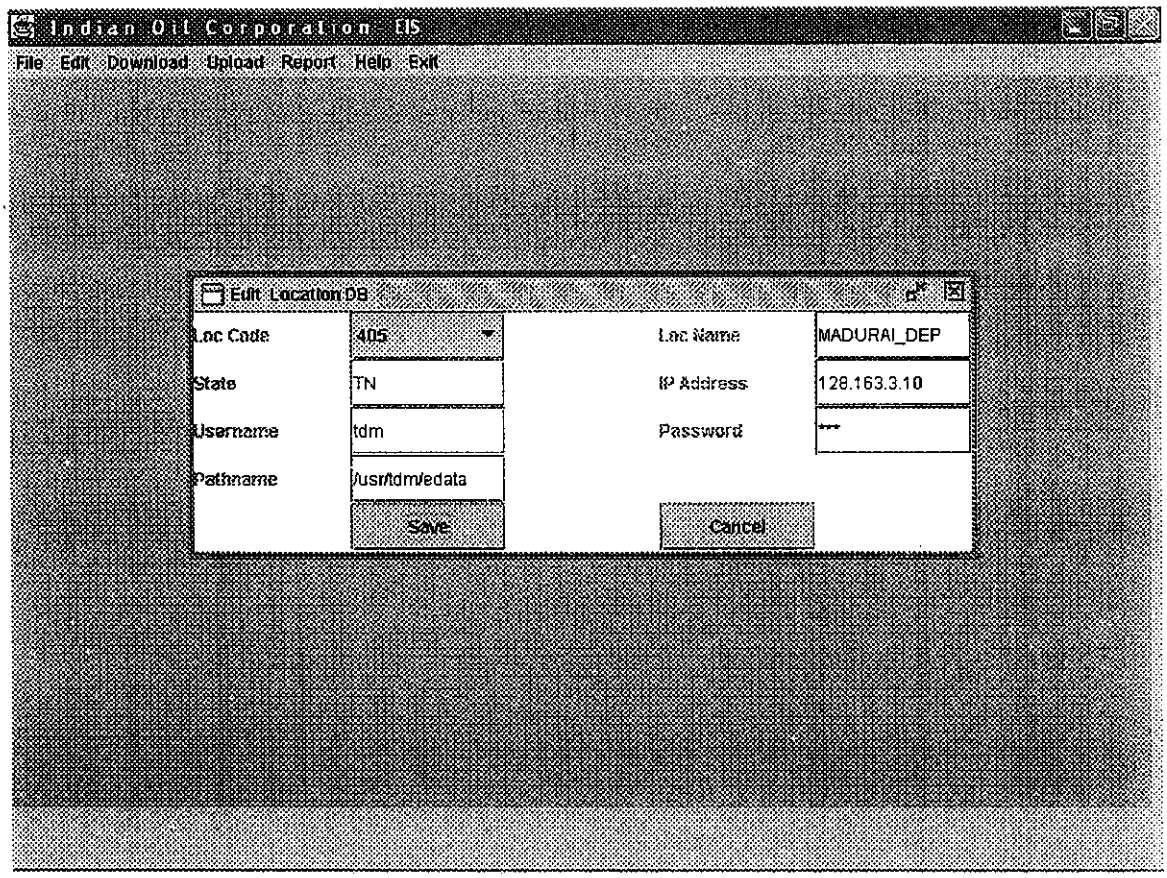
Add New User


Indian Oil Corporation - EIS
File Edit Download Upload Report Help Exit
Add New User
Username
murali
Password
Confirm Password
Permission
Read
Delete
Modify
Create
Save
Cancel

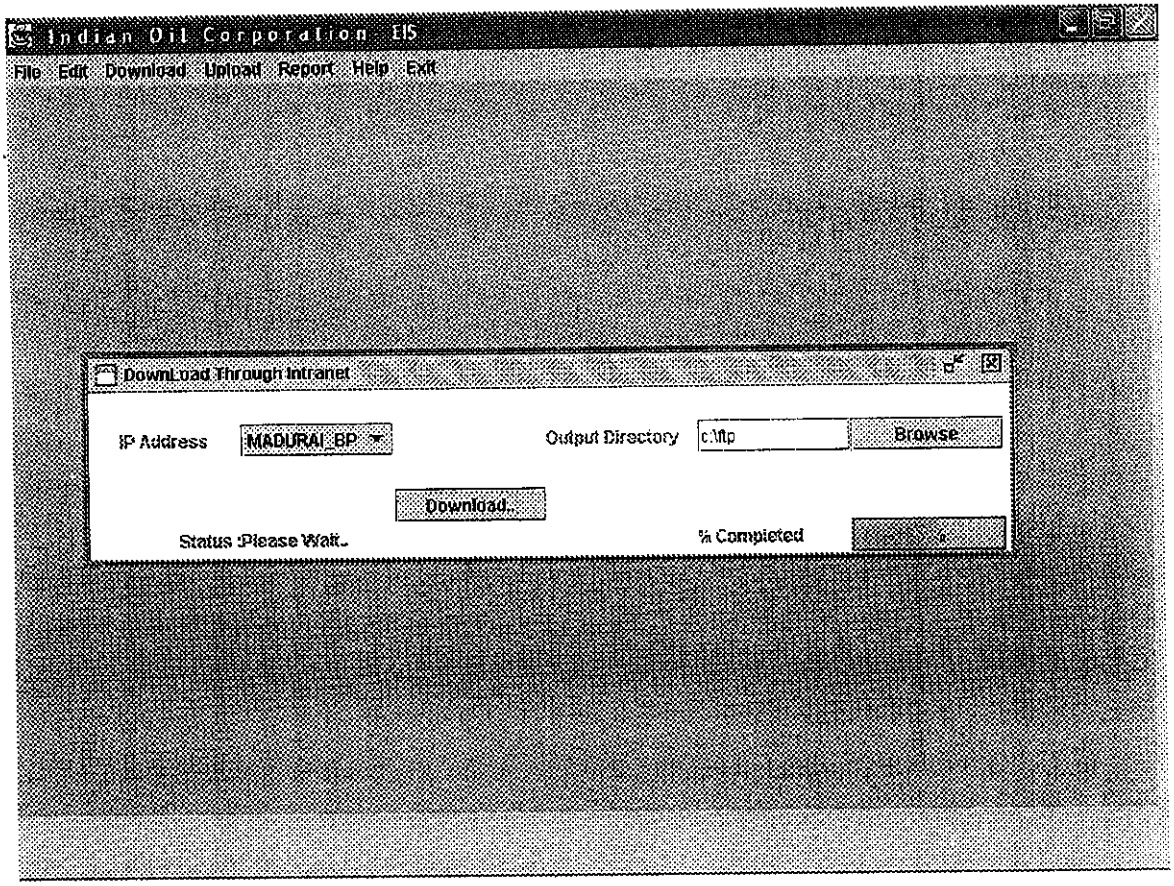
Delete User


Indian Oil Corporation LIS
File Edit Download Upload Report Help Exit
Delete User
Username
Prakash
Delete

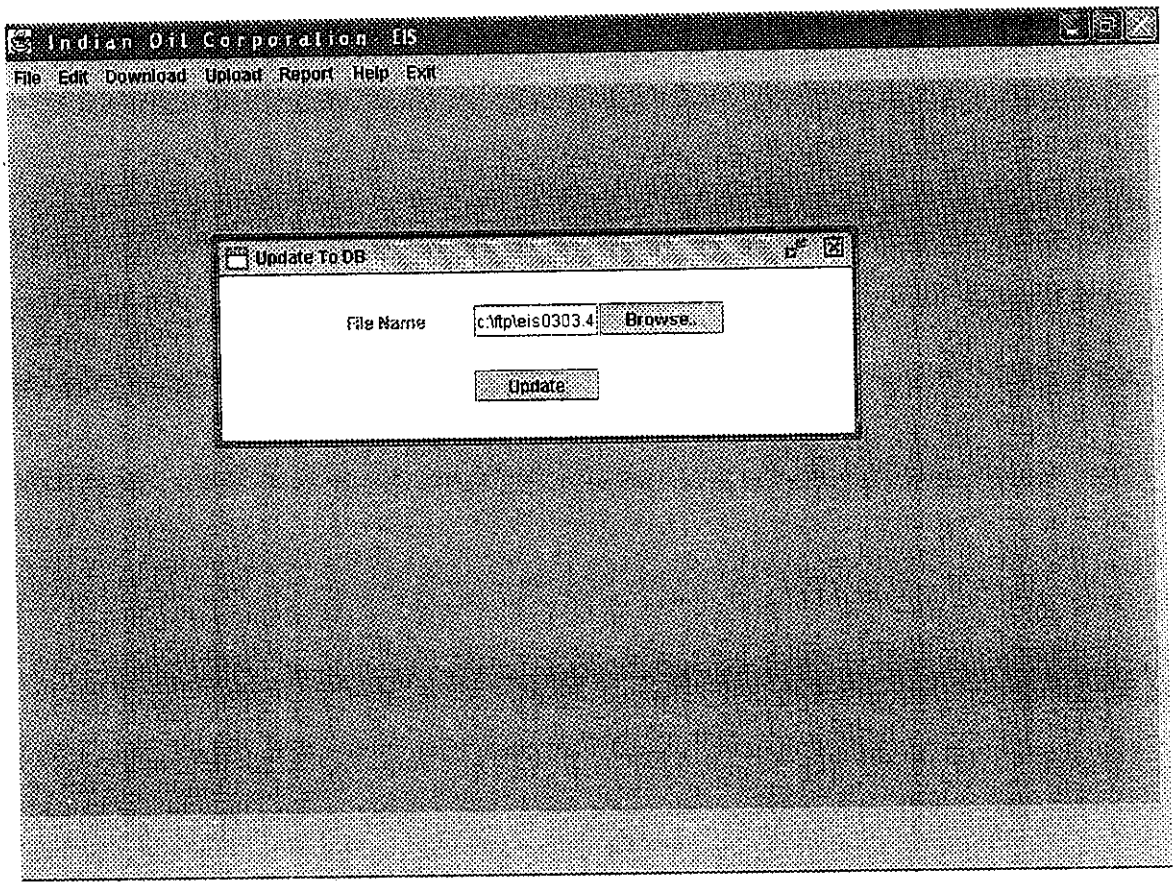
Edit Location DB



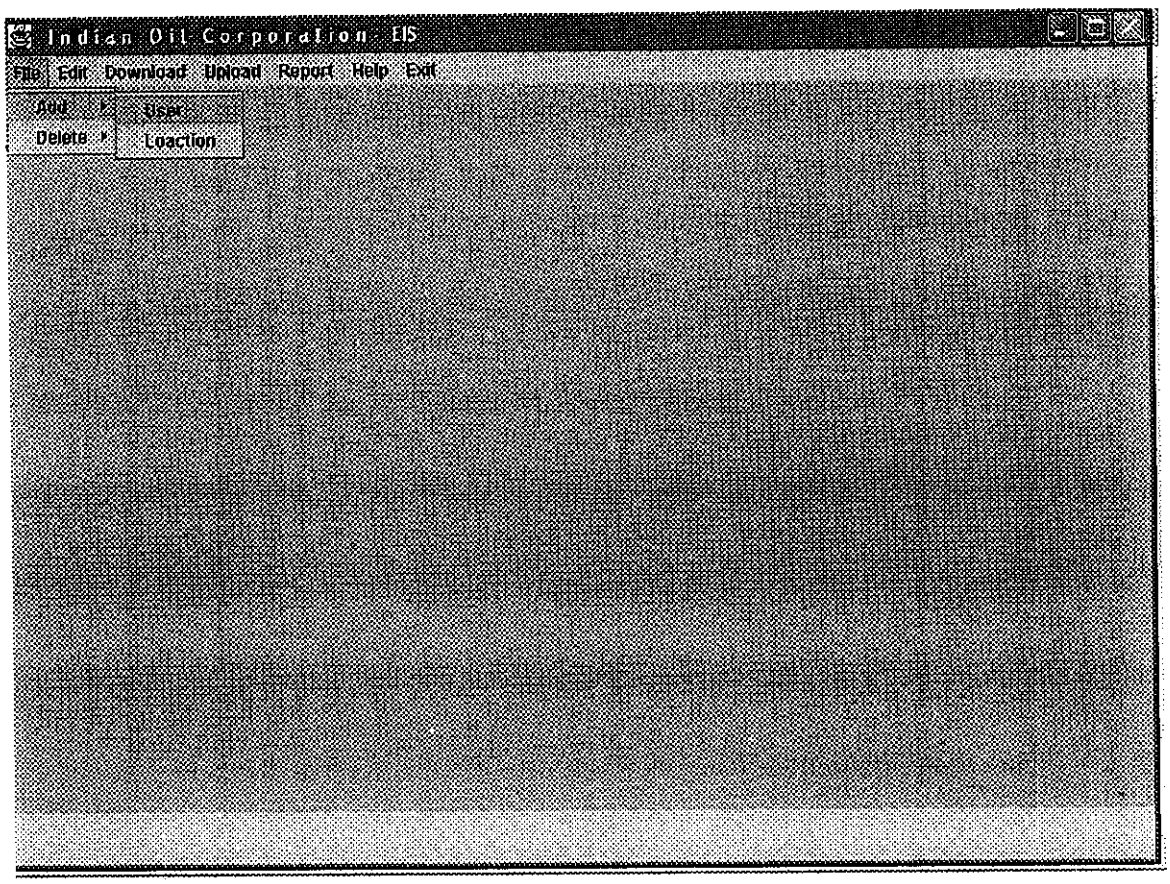
Download FTP

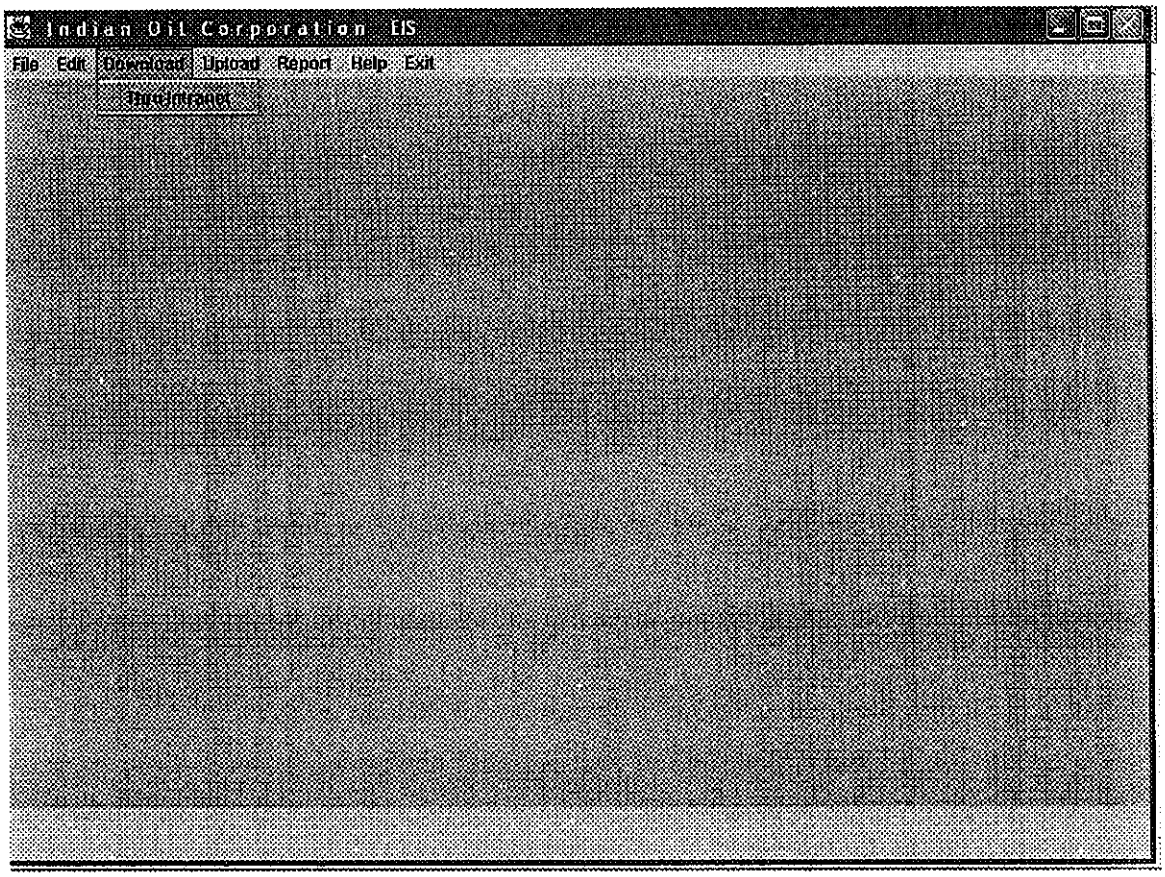


Update DB


Indian Oil Corporation Ltd
File Edit Download Upload Report Help Exit
Update To DB
File Name
c:\ftp\eis0303.4
Browse..
Update

Menu Screens




Indian Oil Corporation EIS
File
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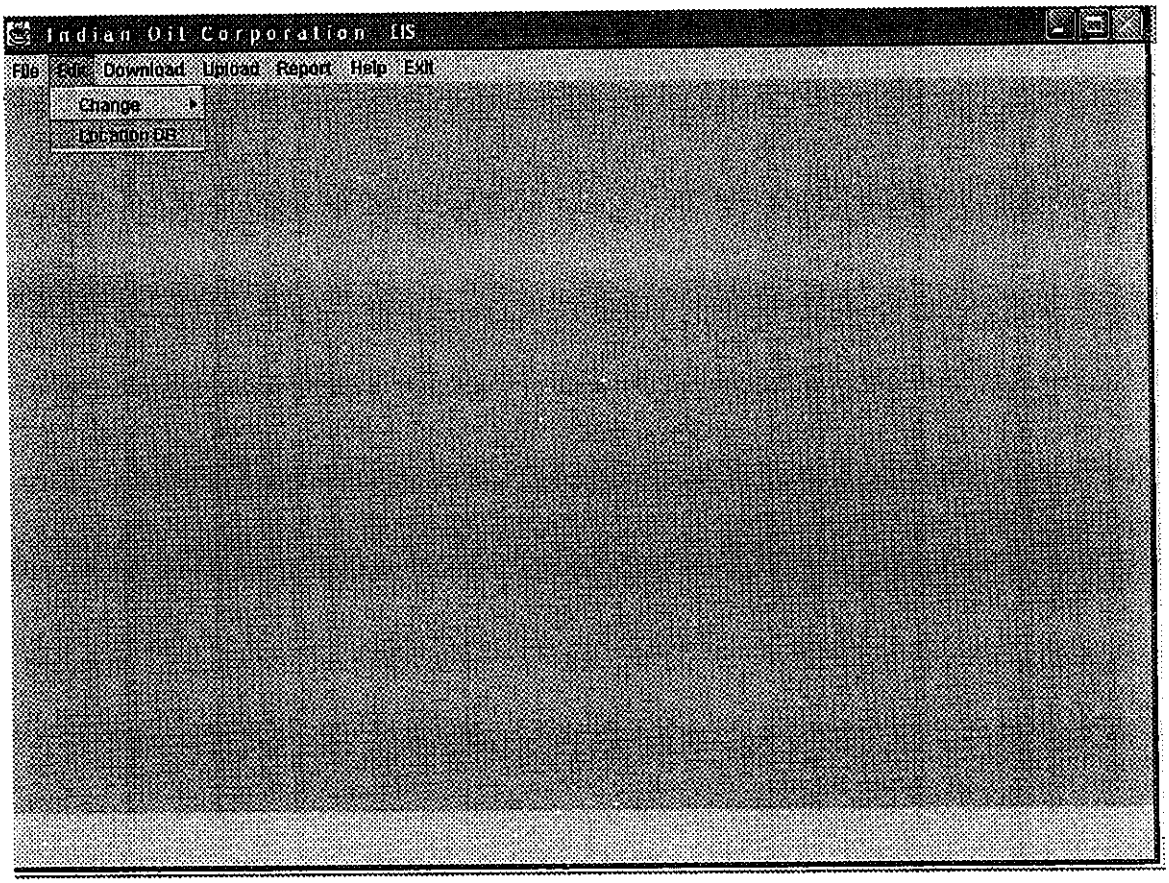
Upload
Report
Help
Exit
Thru Intranet


Indian Oil Corporation LIS
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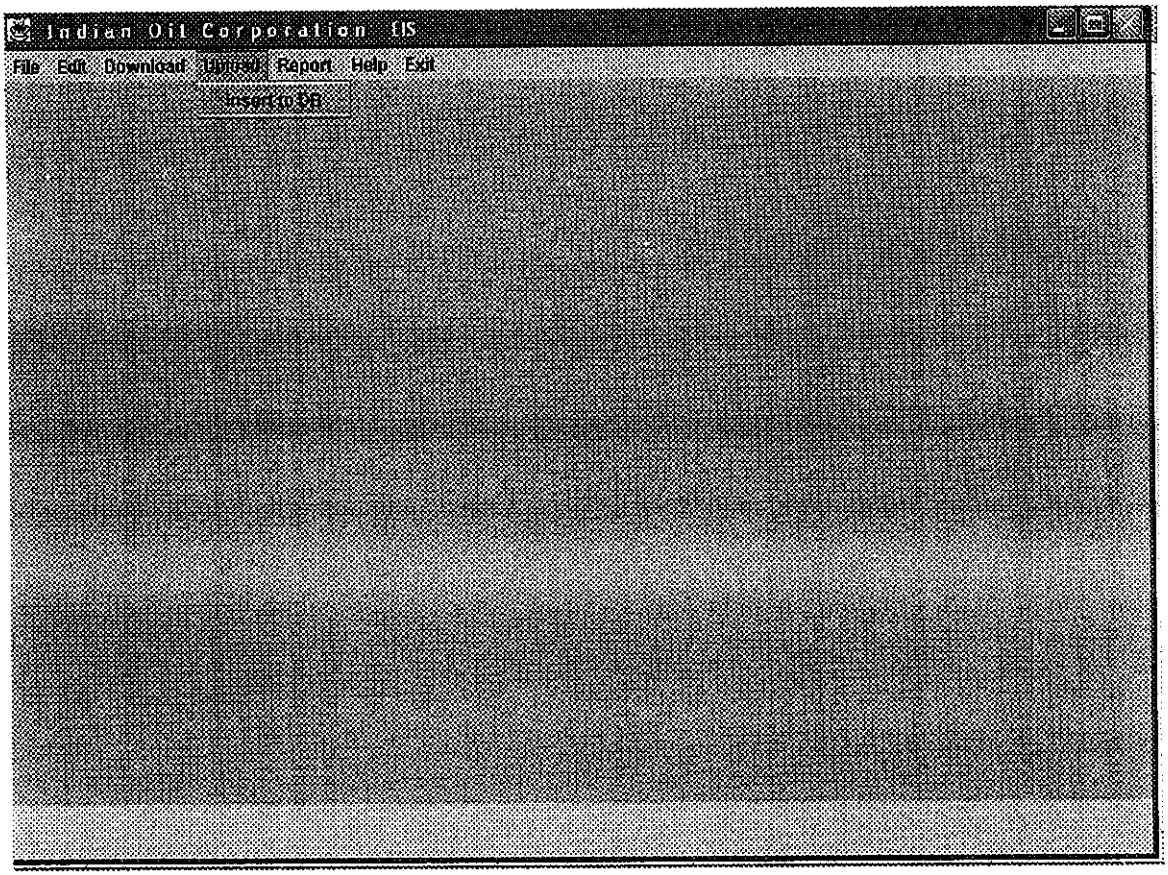
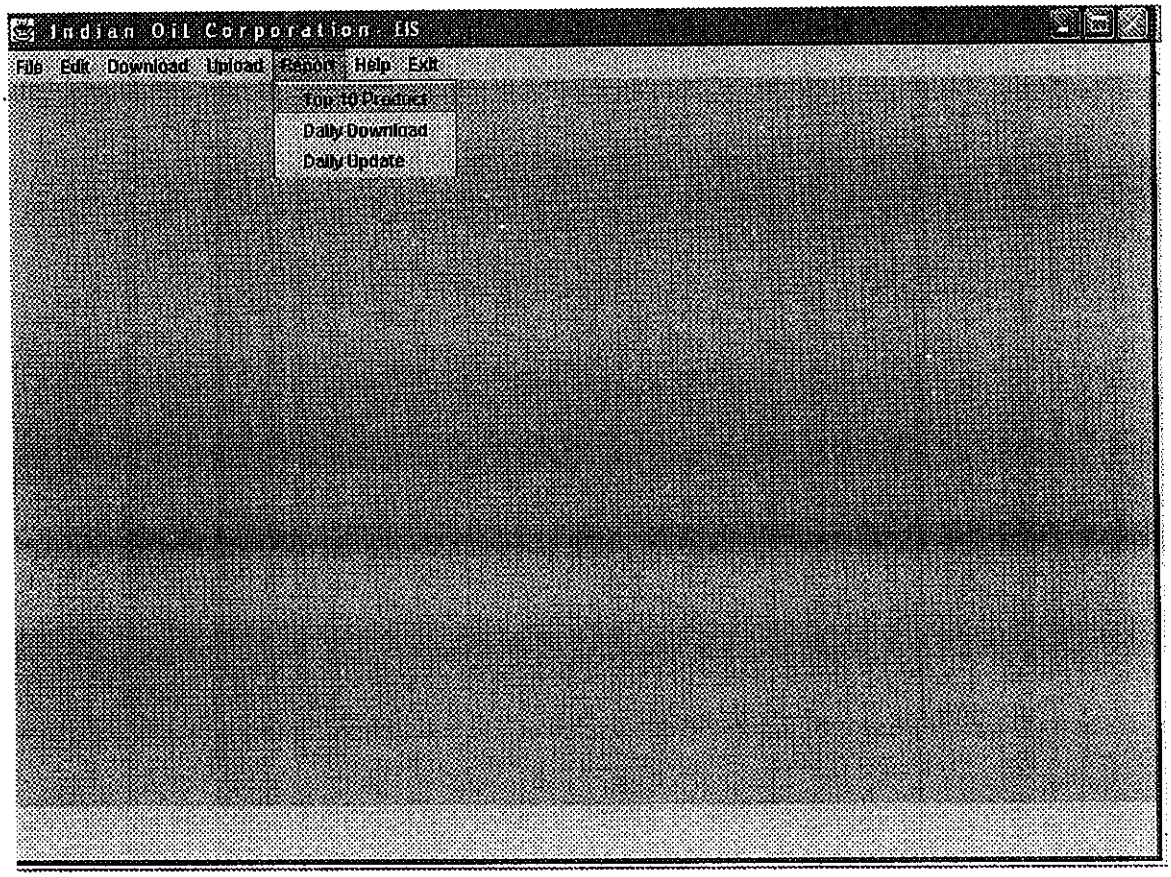
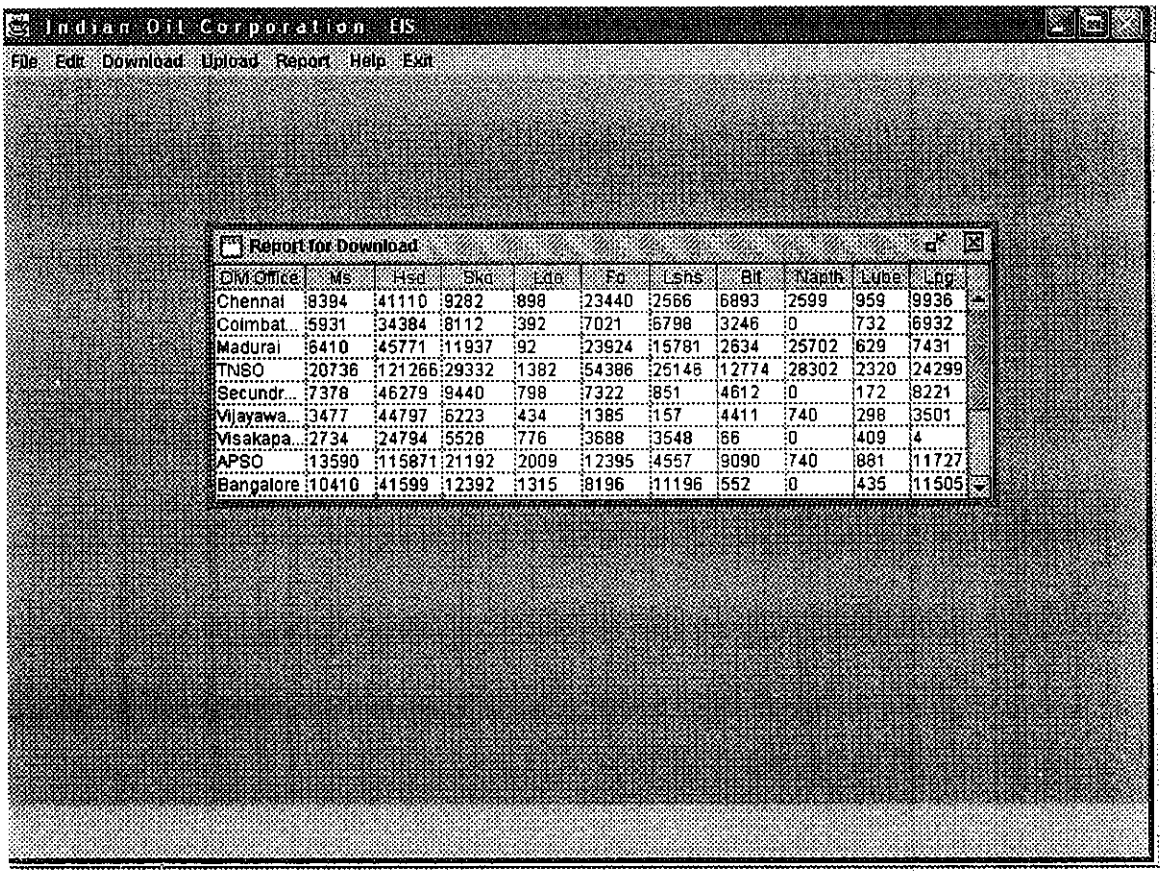
Location DB


Indian Oil Corporation DS
File Edit Download Upload Report Help Exit
Insert to DB

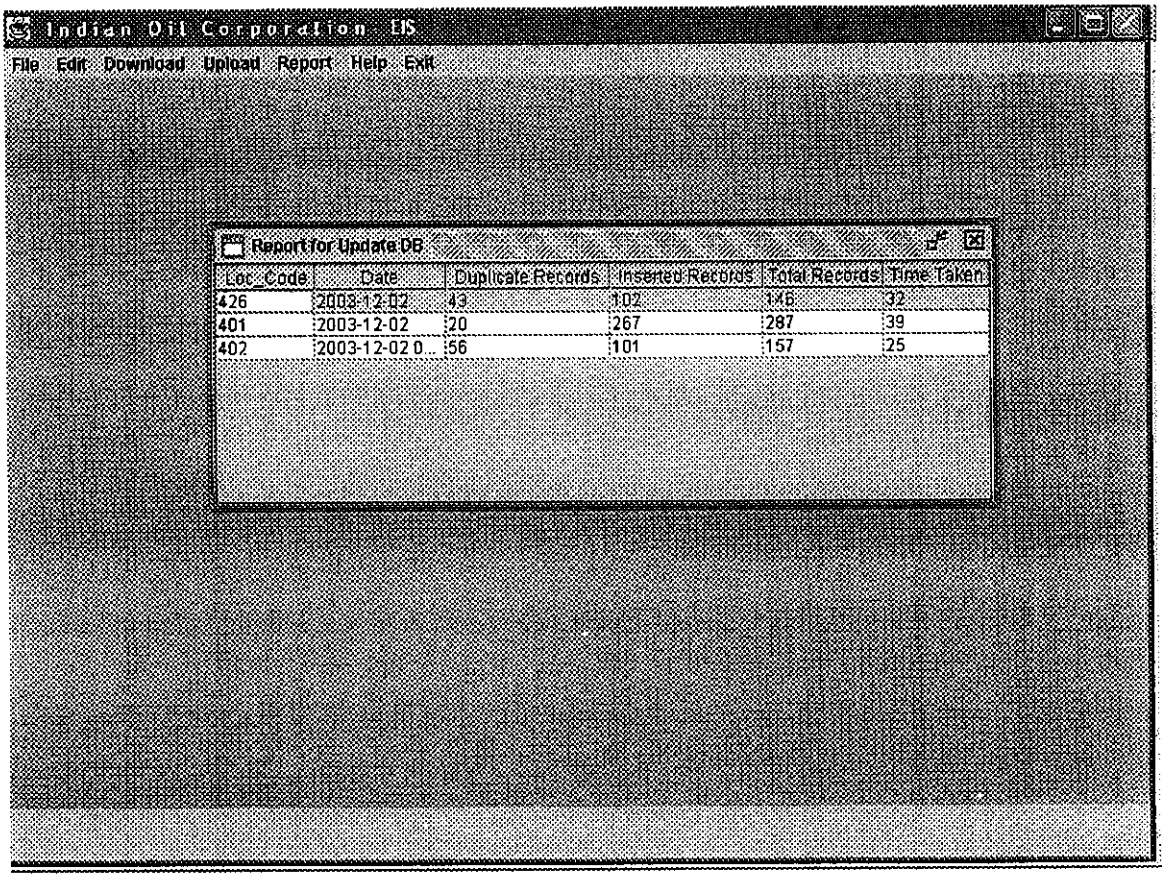

Indian Oil Corporation - IIS
File Edit Download Upload Report Help Exit
Top 10 Product
Daily Download
Daily Update

Top 10 Product Report

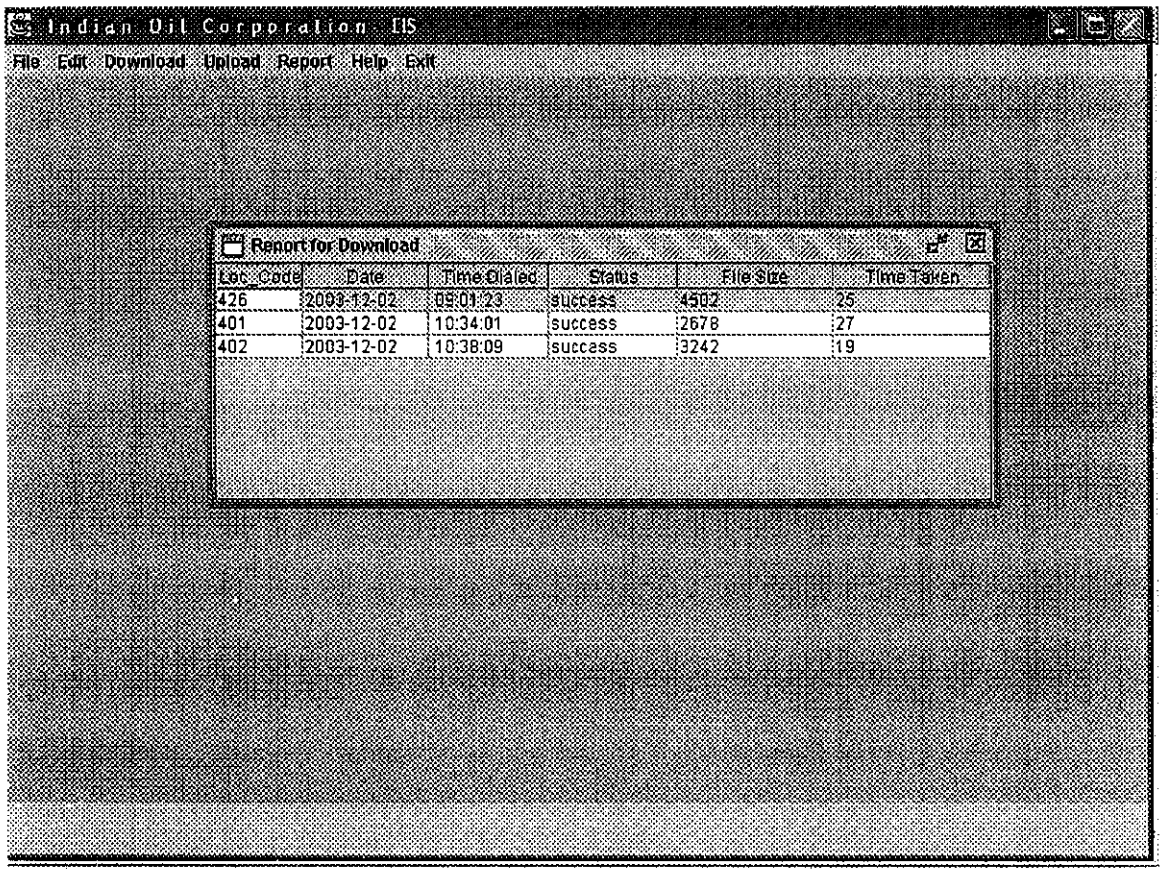


OM Office	Ms	Hsd	Sko	Ldo	Fo	Lshs	Bit	Naph	Lube	Lpg
Chennai	8394	41110	9282	898	23440	2566	6893	2599	959	9936
Coimbat...	5931	34384	8112	392	7021	6798	3246	0	732	6932
Madurai	6410	45771	11937	92	23924	15781	2634	25702	629	7431
TNSO	20736	121266	29332	1382	54386	25146	12774	28302	2320	24299
Secundr...	7378	46279	9440	798	7322	851	4612	0	172	8221
Vijayawa...	3477	44797	6223	434	1385	157	4411	740	298	3501
Visakapa...	2734	24794	5528	776	3688	3548	66	0	409	4
APSO	13590	115871	21192	2009	12395	4557	9090	740	881	11727
Bangalore	10410	41599	12392	1315	8196	11196	552	0	435	11505

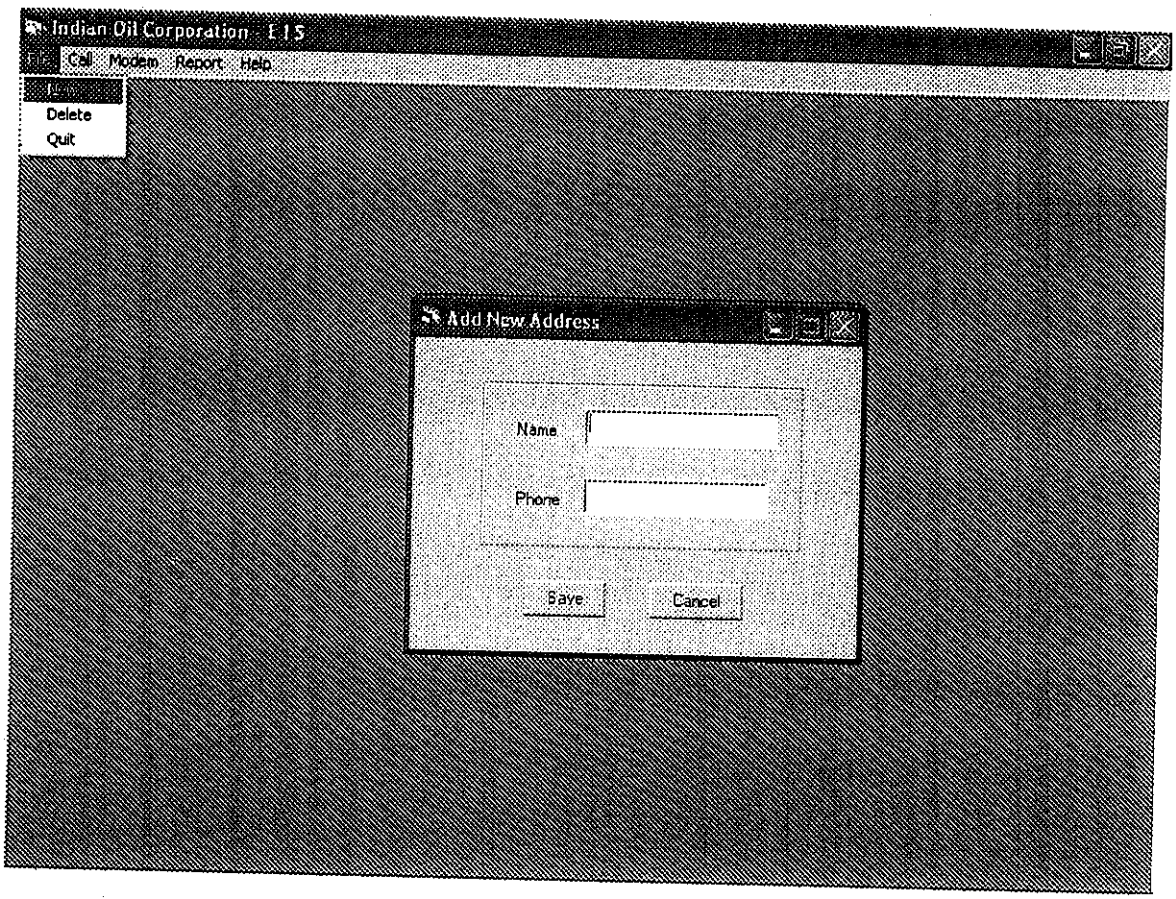
Update DB Report



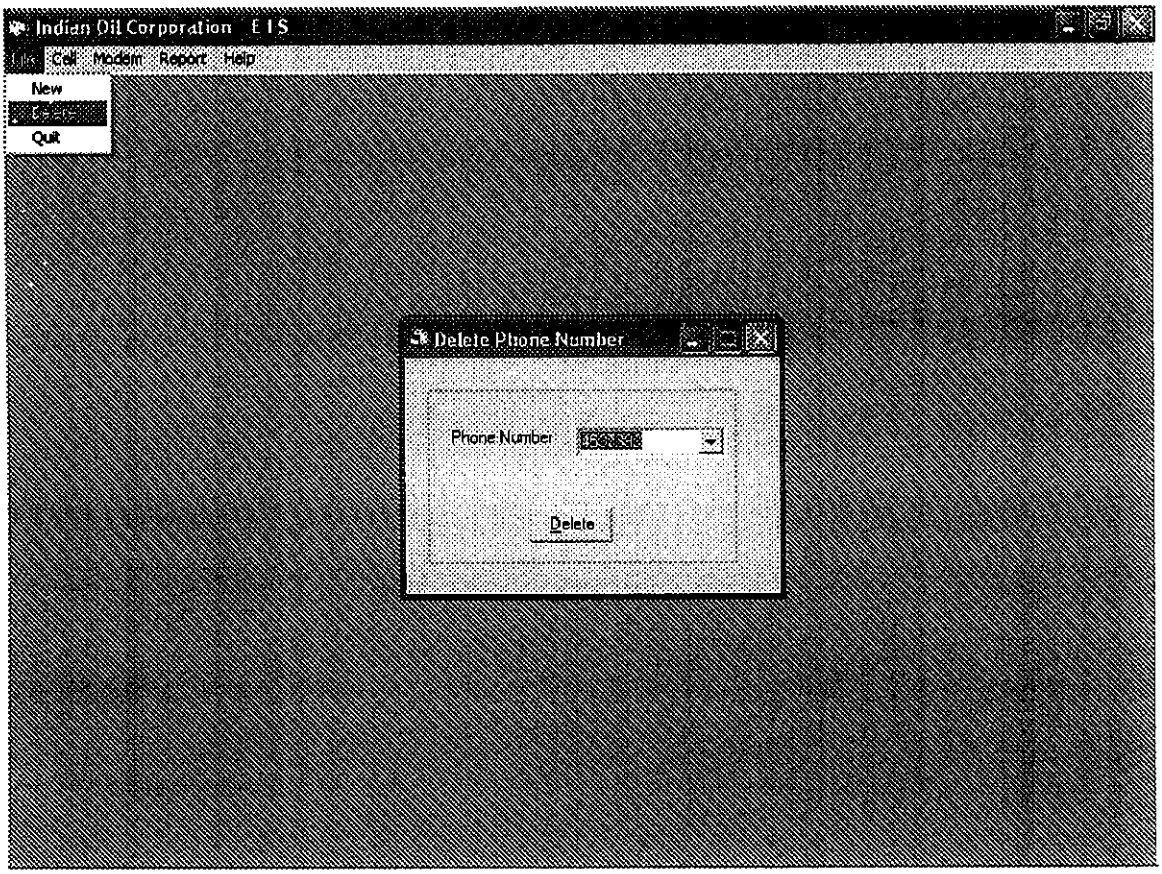
Download FTP Report



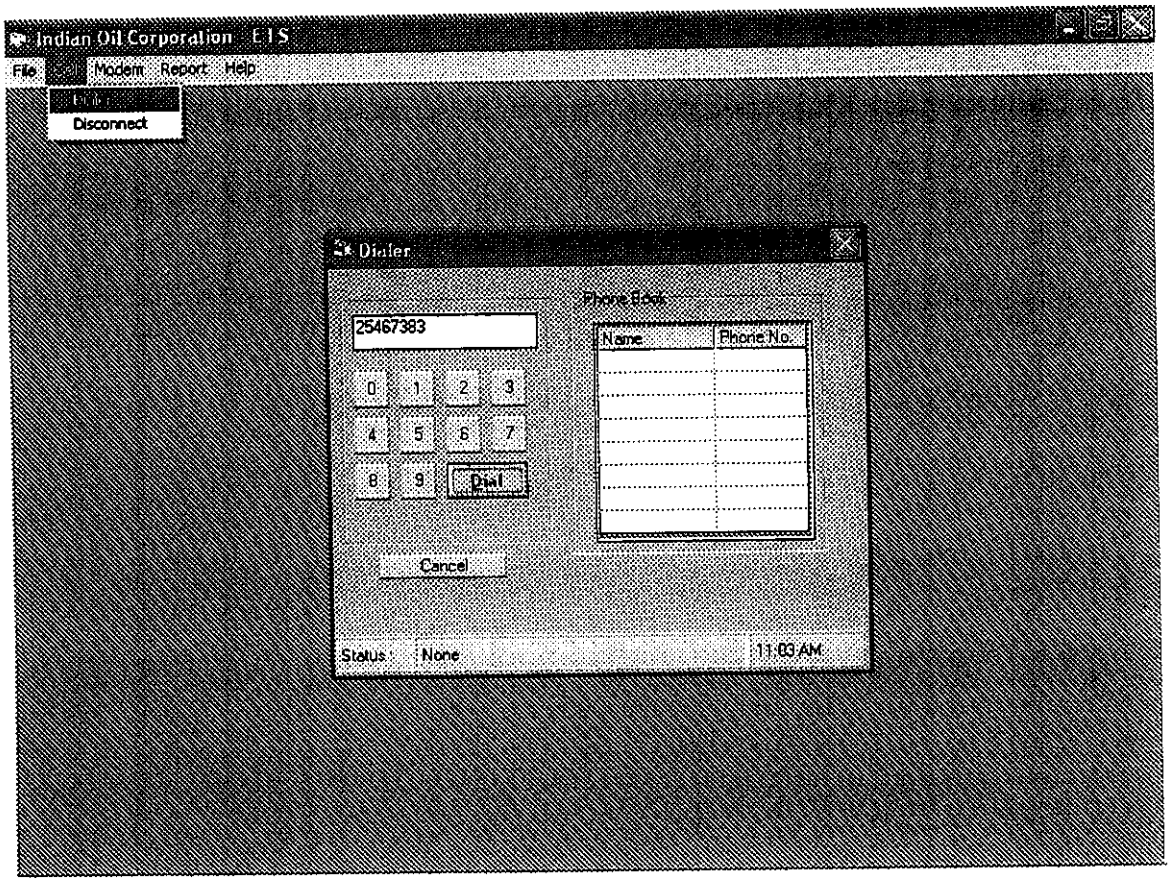
Add New Phone Number



Delete Phone Number



Dialer


Indian Oil Corporation E I S
File
Modem
Report
Help
Disconnect
Dialer
25467383
0
1
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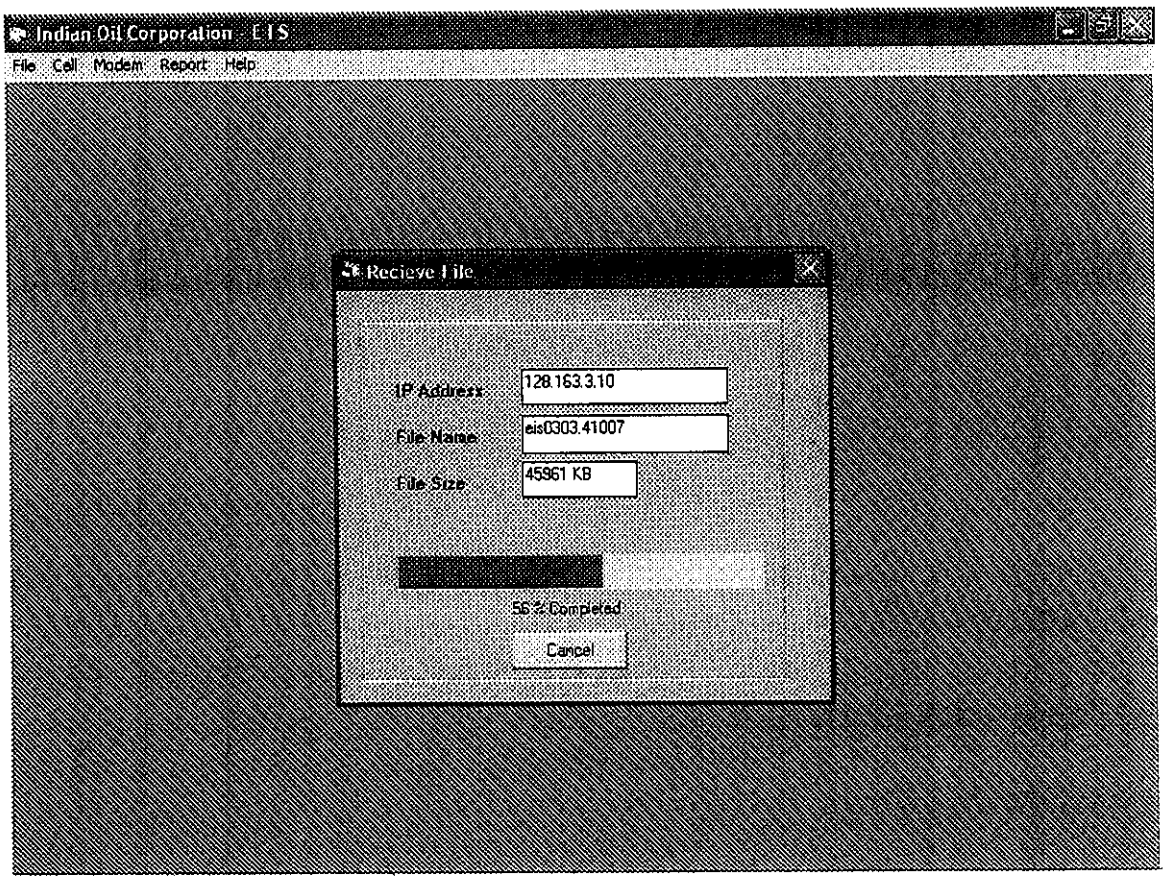
7
8
9
Dial
Cancel
Phone Book
Name
Phone No.
Status :
None
11:03 AM

Receive File



Port Settings