

EMAILING TOOL

PROJECT WORK DONE AT
IPOWER SOLUTIONS INDIA 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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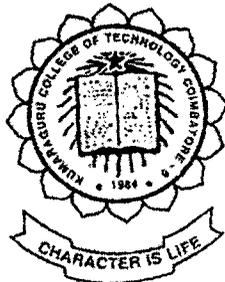
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May 2002

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Coimbatore – 641 006

CERTIFICATE

This is to certify that the project work entitled

EMAILING TOOL

Done by

M.VIJAYARAJ

Reg.No: 9938MO653

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

Master of Computer Applications of Bharathiar University.

S. Jeyaraj
Professor and Head 30/4

Chitra
30/4
Internal Guide

Submitted for the university examination held on 10.5.2002

Chitra
10/5/02
Internal Examiner

Baby
External Examiner



iPower Solutions India Ltd
www.ipwrs.com

To whomsoever it may concern

This is to certify that **Mr M.Vijayaraj, M.C.A (Final Year)** of **Kumaraguru College of Technology** has successfully completed his project work titled '**Emailing Tool**' under our guidance.

He carried out this project during the period of December 2001 to April 2002.

A handwritten signature in black ink, appearing to read 'B. Venkatesh'.

B. Venkatesh
GM-Operations

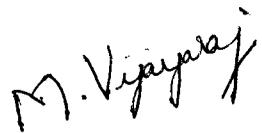
April 11, 2002

DECLARATION

I here by declare that the project entitled EMAILING TOOL, 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. B. Venkatesh**, General Manager-Operations, iPower Solution India Ltd, Chennai and **Mrs.V.Geetha M.C.A**, Senior Lecturer, Department of Computer Science, Kumaraguru College of Technology and this project work as not found the basis for the award of any Degree/Diploma/Associate-ship/Fellow-ship or similar title to any candidate of any University.

Place: COIMBATORE

Date: 30.04.2002



Signature of the Student

ACKNOWLEDGEMENTS

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 **Dr. S.Thangasamy, Ph.D.**, Head of the Department, Computer Sciences and Engineering, **Kumaraguru College of Technology** to take up the project at **iPower Solutions India Ltd**, Chennai.

I wish to extend my gratitude to **Mr. B. Venkatesh**, General Manager-operations, **iPower Solutions India Ltd**, Chennai for allowing me to carry out the project work at **iPower Solutions India Ltd** and guiding me in completing the project successfully.

I am greatly privileged to express my deep sense of gratitude to my guide **Mrs.V.Geetha M.C.A.**, Senior Lecturer, Dept. of Computer Science and Engineering, **Kumaraguru College of Technology**, for her valuable advice and encouragement.

SYNOPSIS

The project work entitled 'Emailing tool' is an online system developed for NF (Nigel Freeman) company a client of iPower Solutions India Ltd, Chennai.

NF Company deals with model photography nation wide. This system enables the modeling people to become one-year member at this site. Once the membership is made, models are allowed to create their own unique email-id, using which they can upload their picture & video files in the NF server maintained.

The next module deals with the mailing part of the server. This facilitates film advertisement producers to view the photos of the models and contact them through emails and use their services in their film.

In addition to this, various other features given below are included Creating links for picture and videos. Automatic memory management helps the members for proper usage of the memory award to them. Automatic folder creation helps the user to store the necessary mails in folders as per their need.

ISAPI (Internet Service Application Program Interface) filter helps to overcome the limitations of the Common Gate-way Interface i.e., which allows accessing a file from NF server by more than a user at a time. When the member ship period is about to expire, members are intimated through email twice, one before forty-five days of expiry and another in fifteen days before.

Guest book stores the information of the senders and the receivers like names and email-ids. The system is developed using Personal Web Server and Internet Information System, Active Server Pages, HTML, Java Script and VBScript, SQL Server, VC++

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1. INTRODUCTION

1.1. PROJECT OVERVIEW

'Emailing tool' is an application used by modeling people to get the information via the Internet. The application provides user services to members of NF Server through a Web browser.

The objective of this project is to store picture/video files in NF server. The Film advertisement producers view these picture/video files and if they're satisfied with the pictures of the models then they contact the model directly using Emailing Tool.

This project deals mainly with two sub-modules. They are NF Email-id creation and NF Mailing Services.

Any user can become the member of NF Company by registering their details in this site and paying a membership amount. The duration of this membership is one year.

NF Services provides various basic services and extra features to the members.

These services include:

- Creating links for picture and videos.
- Automatic memory management.
- Automatic folder creation.
- ISAPI filter to support multi-user.
- Automatic intimations of expire of member-ship.
- Guest book.
- Comment registering form for further service enhancement.

Links are created for picture files and video files for user access in database. Memory is properly utilized through memory management and creating folder.

An ISAPI filter is a DLL that runs on an ISAPI-enabled HTTP server to filter data traveling to and from the server. The filter registers for notification of events, such as logging on or URL mapping. When the selected events occur, the filter is called, and you can monitor and change the data. ISAPI filters can be used to provide enhanced logging of HTTP requests or additional authentication methods.

The filter application sits between the network connection to the clients and the HTTP server. Depending on the options that the filter application requests notification for, it can act on several server actions.

The filter registers for notification of events such as logging on or URL mapping. When the selected events occur, the filter is called, and you can monitor and change the data (on its way from the server to the client or vice versa). ISAPI filters can be used to provide custom encryption or compression schemes, or additional authentication methods.

The Members themselves interact with each other using the Emailing facility. They can also interact with system administration people.

The Automatic intimation page informs the members the expiry date of their membership. First remainder is given forty-five days before expiry date and last intimation fifteen days before expiry.

Using add rotator components banners of NF Server often periodically rotated. Different pictures are loaded for different users at a time.

Guest book is maintained so that mail sender's and receivers' names and Email-ids are stored in database, which help organization people to analyze the success of the Tool.

Chapter 2 deals about system study and analysis where the existing system is analyzed and feasibility assessment of proposed system is examined.

In chapter 3 necessary hardware and software environments are described.

System study and development processes are reviewed in chapter 4, where the input, output, database and process designs are carefully examined and constructed.

The system testing and implementation procedures are viewed in chapter 5.

In chapter 6 and chapter 7 deals conclusion and future enhancement of the project respectively.

1.2 ORGANIZATION PROFILE

iPower is a rare combination of good design skills and development credentials. Satyam wishes them good luck in all their future ventures. iPower provides custom application development using modern development environments, methodologies and technologies. We analyze and understand your business and corporate culture then provide you with the most appropriate solutions.

iPower trains your users and partners with you to provide maintenance, upgrades, functional additions and modifications. iPower provides custom application development using modern development environments, methodologies and technologies. We analyze and understand your business and corporate culture then provide you with the most appropriate solutions.

iPower trains your users and partners with you to provide maintenance, upgrades, functional additions and modifications.

Partners:

The company is powered with the latest exciting buzzword that gears people into the world of Internet. As part of our pioneering efforts, today we have a close interaction partnering with:

▣ CyberMidi, USA

▣ PeopleConnect, UK

▣ Gpwr, USA

▣ Satyam Infoway, India

▣ Campus Mess, USA

▣ Stellar Trading, USA

▣ Tecsol, Singapore

▣ Globe Soft, Singapore

▣ BAI-TEC, Germany

▣ E-novasoft, USA

▣ Pro-nexus llc, USA

▣ Kochumveda, Sweden

☒ Bitech Limited, India

☒ Maakers, India

☒ Kumaran Betawave Solutions, India

☒ Digital Studios Ltd, India

Clients:

In association with eminent Indian and international clients, we have delivered customized business solutions. To be on par with other companies and to keep pace with the new technologies iPower constantly upgrades its skills.

☒ Rescom Business Services Ltd, UK

☒ eTeam Inc, USA

☒ Kilbourn, USA

☒ Income Tax Dept, Chennai, India

☒ GV Films, India

☒ CyberMidi, USA

☒ Alpenland, Germany

☒ AllBeatles, USA

☒ Element2, UK

☒ Nitco Tiles, India

☒ MPLA, India

☒ Maakers, India

☒ eAngels, Singapore

☒ PeopleConnect, UK

☒ GE Power Controls, India

☒ Hindustan Motors, India

☒ Citizen Watches, India

☒ Dreams Auto, India

☒ VKC Forex, India

☒ Anna University, India

☒ Higher Response Marketing Inc, USA

☒ Las Torres Gemelas Hotels, Mexico

☒ Kochum Veda, Sweden

☒ Ultra Tiles, India

Carrer:

iPower believes in teamwork and respect innovators and team players. They have respect for the People, recognition for Expertise and reward for the Contribution. They need people with AAA (Aptitude, Ability & Attitude).

The work environment at iPower offers the best of all worlds: focused and driven, yet casual and energized. In keeping with our motto - "Applying Innovations", iPower encourage employees to be think-out-of-the-box, so to say and offer an upward path for long-term growth and career development. The team-driven environment supports productivity and excellence while having fun.

iPower offers you the diversity and assortment of businesses diversity Opportunities and cultures that will make everyday a rich learning experience No limit for your future People at iPower are special for us

Infrastructure:

Whether you have two computers or 2000, your network must be reliable, secure, and capable of growing rapidly with your enterprise. iPower is adept at building, deploying and maintaining heterogeneous hardware and software infrastructures to support your company's changing needs.

Professional services:

Professional Services is comprised of iPower Technologies mplementation and Business Consultants.

They consultants can offer the following services:

- Software Implementation
- Business Process Review
- Project Management
- Application Integration
- Database Configuration and Optimization Assistance
- Opportunity Assessment
- Management Consulting

2. SYSTEM STUDY AND ANALYSIS

The system analysis is concerned with analyzing systems with view to making them more effective either by modification or by substantial redesign.

The system analysis involves mainly in developing new information systems; this activity involves investigation of current systems, proposing system and evaluating possible new systems, designing in detail the new system that is agreed, implementing it, and maintaining it during its operational life.

Requirement analysis is used to analyze the knowledge about the existing system. After understanding the limitations of the existing system and the identification of the problems, alternate system solutions are studied and recommendations are made about committing the resources required to design the system. Various studies are done in order to get the information like how the data are processed with in the organization, how the data is spread over the organization, how data are searched for within the organization, how safe the data is used within the organization, What is the procedure for data retrieval and transit.

2.1 EXISTING SYSTEM

The existing system uses a manual system for most of the process involved. Modeling people can get the details about the job through advertisements, friends and etc. So this system has following limitations.

PITFALL OF EXISTING SYSTEM

Film advertisement producers advertise their requirements through paper, television, and magazines or any other media. This information may not reach to modelers as it covers only limited areas. Moreover the cost involved in advertising is high.

The producers do not know eligibility and performance of models in advance. It is known only at the time of interviewing the modelers.

Film ad producers cannot interview many models at a time. This might lead to a situation where a producer might not be able to find a suitable model. Even if the producer finds a model, the time taken to communicate is more using normal mailing system.

Cost involved in this system is very high for both modeling people and Film advertisement producers.

The above made us to study existing and construct a flexible, feasible and digit oriented system.

2.2 PROPOSED SYSTEM

The proposed system should be developed in such a way to overcome the problems faced by the existing system. This can be achieved using the latest technologies available today.

The proposed system named, as Emailing Tool is to do the following:
The member can UPLOAD the Images/videos & for each Image/Videos the Associated sender and receiver Email-id are Collected and stored in the NF Database.
The server will classify the senders & Receivers ID and store them separately.

The servers also add some Banner of themselves and periodical changing the banners is also allowed. While receiver receives the Images/videos, a link is established for them through which they can visualize them.

NF Email-id creation:

Any user can login into the NF website to become the member of NF Company. Initially the home page displays the details about the NF Company and procedure for registering in NF site.

For registering in to the NF website, it asks personal details like name, password, email id, state, zip code etc details from the user. Once all the details filled by the user are valid.

If the details given by the user are valid, the NF Server automatically generates a unique NF number for each member.

Whenever the NF id is generated, the NF Server automatically allocates some amount of memory in its storage. Using the NF id the member can upload their picture and video files in the allocated memory area.

Then members are allowed to create a unique email _id and mails can be transferred from the NF Server now and then.

The NF Company provides the following features to the NF Members:

- ❖ Creating links for picture and videos.
- ❖ Automatic memory management.
- ❖ Automatic folder creation.
- ❖ ISAPI filter to support multi-user.
- ❖ Automatic intimations of expire of member-ship.

- ❖ Guest book.
- ❖ Comment registering form for further service enhancement.

a. Creating links for pictures and videos:

The pictures and videos are accepted from the members and are stored in the memory space allotted to them. The pictures are stored in a special folder so called as picture and videos are stored in a video folder. A unique link is established for each picture or video and the links are moved to database so that multi-users can access the picture and video files.

b. Automatic memory management:

Whenever a user opens his inbox (mail-inbox), the system automatically generate a dialog box and asks for memory management i.e., whether they are interested to store the mails in a folder or to delete them. If they are interested in storing them, then a folder is created and mails are saved in the folder. By using the delete option, unwanted mails can be removed from the inbox thus resulting in effective memory management.

c. Creating folders:

If the user is interested in creating a folder, and then the system will open the dialog box to create a folder unique names will be given to the folder. If the folder name mentioned by the user is already available in the storage area, the dialog box will intimate the user to give a new name for the folder. The system will allow the user to store the mails in existing folders with guidance of the dialog-boxes.

d. ISAPI Filter:

An ISAPI filter is a replaceable dynamic-link library (DLL) the server calls on every request. When the filter is loaded, it tells the server what sort of notifications it is interested in. After that, whatever the selected events occur, the filter is called and given the opportunity to process the event.

ISAPI filters are powerful enough to allow for the following applications:

- Custom authentication schemes
- Logging
- Raw data transfer
- Traffic analysis

The filter application sits in between the network connection to the clients and the server.

The setup program that installs the filter should add it to registry under

"HKEY_LOCAL_MACHINE\System\currentcontrolset\services\w3svc\parameters\filter DLLs"

What ISAPI do for you

The ISAPI Filter specification (included in the ActiveX Development Kit) provides the capability of registering a DLL to intercept specific server events and perform appropriate actions. Unlike ISAPI itself, which is an improvement over the Common Gateway Interface (CGI) that Web servers have used for years, ISAPI filters are an entirely new capability in the world of Web servers. In effect, ISAPI filters let you extend the capabilities of your Web server. The ISAPI filter you build says to the Web server, "Hey, when something like this happens, let me handle it." Your filter can then handle the event entirely, process the event and leave it available for the Web server and other filters to handle, or decide on-the-fly that it's not an event it needs to process at all.

Basic difference between CGI and ISAPI

The chief difference between the CGI programming model and the ISAPI programming model is that, with CGI, the system creates a unique process for every request, whereas ISAPI extensions do not require a separate process. With CGI, every time a server receives a request it must initiate a new process. Because the operating system must maintain all these processes, CGI is very resource intensive. This inherent limitation in CGI has made it difficult to develop responsive applications on the Internet.

e. Automatic intimations of expire of member-ship:

The Automatic intimate page intimates the members the expiry date of their membership. First remainder is given forty-five days before expiry date and last intimation fifteen days before expiry.

2.3 REQUIREMENTS OF NEW SYSTEM

The system has been designed in order to overcome the cons faced by the existing system and hence should possess the following features.

- This system requires third parties in order to transfer of pictures or videos, from the user to NF Company account.
- This system should enable communication between both the member and administrator. The members can also communicate themselves.
- It should help in increasing the number of members of the NF Company at a lower cost. The only cost involved during the transaction is for the Internet connection, which is very less compared to that involved in the case of manual transactions.

2.4 USER CHARACTERISTICS

To access the system user needs a rough knowledge about using Internet. Since it is a user-interface system, the events like click and select are only to be used. Therefore user need not have any prior knowledge about the system. Moreover help tips are provided wherever necessary, which facilitates users to work with ease.

3. PROGRAMMING ENVIRONMENT

3.1 HARDWARE CONFIGURATION

- ❖ Intel 486 & above.
- ❖ 16MB RAM.
- ❖ 1GB HDD.
- ❖ Cache Memory 512 KB.
- ❖ Telephone lines for communication.
- ❖ Network interface card
- ❖ A Modem.

SOFTWARE CONFIGURATION

- ❖ Windows Operating System.
- ❖ Netscape communicator 4.5 or Internet Explorer.
- ❖ SQL SERVER.
- ❖ PWS/IIS.
- ❖ VC++ (Dynamic Link Library).

3.2 DESCRIPTION OF SOFTWARES AND PACKAGES USED

The software used to develop the proposed system is as follows:

Active Server Pages

Internet tool used for web publications.

Hypertext Markup Language

An Internet tool used for web designing.

JavaScript & VBScript:

Scripting Languages used to run client side events.

Personal Web Server

Web Server used to satisfy client side requests.

SQL Server

Database used to store values.

VC++

ISAPI (Internet Service Application Program Interface) filter is to allow multi-user at a time, which is an alternative for the CGI (Common Gate-way Interface).

ABOUT OPERATING SYSTEM

Windows 98 is a 32-bit, preemptive multitasking operating system that belongs to the Microsoft Windows family of operating system products. This operating system is being used in the project for the following reasons.

Windows 98 Server is enabled to work as a network operating system. Unlike previous versions of Windows, Windows 98 really is a complete, true operating system in itself, not relying on Dos for lower level function. When computer with Windows 98 starts up, it starts immediately in Windows 98.

Windows 98 is a 32-bit operating system with a graphical interface. It is not a revision of any of the other Windows operating systems such as Windows for workgroups 3.x, but rather an entirely new operating system.

The feature provided includes

Portability: unlike most operating systems, Windows 98 can run on a variety of platforms. This flexibility can be a great advantage when implementing a computer strategy for an organization.

Multitasking Operations: From the perspective of the end user, multitasking means that different type of applications can run simultaneously. While the user is working on one application can be running in the background.

File Systems: Windows 98 supports a variety of file systems, including FAT, NTFS and VFAT.

Security: Windows 98's security features such as a mandatory logon procedure, memory protection, and auditing and limited network access have been developed.

Support for many clients: A wide variety of clients can serve as workstation on a windows 98 network such as Windows 3.x, Windows Workgroups, MS-DOS, Windows-NT Workstation.

Storage space: Windows 98 supports a virtually limitless amount of memory and hard disk space.

RAM: Windows 98 supports 4 gigabytes.

Hard Disk Space: Windows 98 supports 16 hex bytes.

Reasons for selecting Active Server Pages:

The ASP is a technology for building dynamic and interactive web applications. The primary difference between ASP and the other new generation technologies mentioned is that ASP must be executed on the web server, while the pages generated by other technologies are interpreted by the browser (or client). And the advantages that ASP makes us to choose for our project, is that,

- **Simplicity and speed:** it is very simple and speed over the CGI and Perl.
- **Browser Independence:** The ASP portion of a page runs on the server and sends only results to the client independent of the browser that is used by the clients.
- **Active Server Objects:** There are five Active Server Objects, each of which deals with a specific aspect of interactivity and are intended to simplify browser and page control.

Reasons for selecting Hyper Text Markup Language

Hyper Text Markup Language (HTML) is a collection of platform independent styles that define the various components of World Wide Web (WWW) document. HTML documents are plain-text files that can be created using any text editor.

An element is a fundamental component of the structure of a text document. Some examples are *heads, tables, paragraphs* and *lists*. To denote the various elements in a HTML document you should use tags. Some elements may include an attribute, which is additional information that is included inside the start tag. HTML is not case sensitive.

For passing the value from client side to server side we use HTML forms tag.

The form can contain interface elements such as text fields, buttons, check box, radio buttons, and selection lists that let users enter text and make choices.

Forms uses two types of methods one is “post” and another is “get”. We pass the value into ASP file using the ACTION method. The input values are taken into asp file for processing at the client side. Sometimes JavaScript is also used in the HTML file for more efficiency.

Reasons for selecting JavaScript and VBScript

JavaScript and VBScript is an easy to use object-script languages designed for creating live online applications that link together objects and resources on both client and server. These languages are 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.

Reasons for selecting Personal Web Server and Internet Information Server

PWS:

Microsoft Personal Web Server is a desktop Web server that makes it possible to publish personal home page and share documents on the corporate network. PWS can be used as a development-staging platform before uploading a site to an Internet provider. It also makes documents available by Web browser from corporate intranet. Browser can be used to preview a site before uploading, to see how it looks and functions when served. PWS makes a great platform for testing a site before hosting it on the Company server, or on an Internet Service provider. It also includes check links, forms, scripts, and applications to be sure they display and function correctly.

Personal Web Server helps to bring down the barriers to information sharing today. Everything needed to create, personalize, and serve web site is available in PWS.

IIS:

Microsoft's brand of Web server software, using Hypertext Transfer Protocol (HTTP) to deliver World Wide Web documents. It incorporates various functions for security, allows for CGI applications, and also provides for Gopher and File Transfer Protocol (FTP) servers.

Reasons for selecting SQL Server

- SQL server is a client/server Relational Database Management System (RDBMS) that uses Transact-SQL to send request between a client and SQL Server.
- SQL Server can run on Windows 95/98, Windows NT workstation 4.0 or later, Windows NT server 4.0 or later.
- SQL Server Integrates with Windows NT and hence takes advantages of many of such as its Security features, SMP features, Event viewer, Performance Monitor, Cluster Server.
- SQL Server integrates well with Microsoft Back office products.
- MS DTC is a transaction manager. MS-DTC service allows clients to include several different sources of data in one transaction.
- The Microsoft Search Service is a full-text engine that runs as a Windows NT service.
- Each SQL server has two types of databases. They are system database and user database. System database stores information about SQL as a whole. User database that users create.

4. SYSTEM DESIGN AND DEVELOPMENT

4.1 INPUT DESIGN

The input design is the link that ties information system into the world of users. Input design consists of developing specification and procedures for data preparation, steps necessary to fit transaction data into a form that is usable for computer processing.

User has to input all the values in Email-id registration form to become the member of NF Company. It has the following fields:

First name

Last name

Email-id

Password

Retype Password

Nickname

Pet name

Zip code

After entering all the values in Email registration form, the next page displays related information and fields for uploading pictures or videos. The user is supposed to enter all the fields in this page. The third parties maintain these details.

Once the user becomes the member of NF Company, various other facilities are given to them. They are

Creating links for picture and videos, Automatic memory management, Automatic folder creation, ISAPI filter to support multi-user, Automatic intimations of expire of member-ship, Guest book and Comment registering form for further service enhancement.

4.2 OUTPUT DESIGN

One of most important features of an information system for users is the output it produces. Output is information delivered to users through the information system. Without quality output, the entire system may appear to be unnecessary that the users will avoid using it.

The output design of this system is done so that the output screen consists of all the necessary details presented in an attractive and easy readable form. After registering and transferring amount to NF Company, a unique id is given to him called NF member id. Using this id he can store picture/video files in NF Server.

4.3 DATABASE DESIGN

All the details of the member administration are stored in the database. The following are descriptions of the tables. The organization of data in a database aims to achieve three major objectives: data integration, data integrity and data independence.

Data integration:

In a database, information from several files is coordinated, accessed and operated upon as though it is in a single file. Logically, the information is centralized; physically, the data may be located on different devices and in widely scattered geographical locations, connected through data communication facilities.

Data integrity:

Occurrence changes are made to data in one file but not a copy of the same data in another file, when same file is stored in different storage area in a system.

Data independence:

Data independence is the insulation of the application programs from the changing aspects of physical data organization

Email-id Register Table

This table contains the personal details of members.

Field name	Data type	Description
NF_Member_ID	Varchar	NF id of Member
First_name	Varchar	Member name
Last_name	Varchar	Member name
Email-id	Varchar	Member email-id
Password	Varchar	Password
Retype_password	Varchar	Password
Nickname	varchar	Nickname
Petname	Varchar	Name of the pet
City	Varchar	Member city
Zipcode	Varchar	Member zip code

Guest Book Table

This table contains the following fields

Field name	Data type	Description
Sender_Emailid	Varchar	Member email-id
Receiver_Emailid	Varchar	Member email-id

Intimation Table

This table stores the message for automatic reminding purpose.

Field name	Data type	Description
Month	Varchar	Month
Date	Datetime	Date
Message	Varchar	Message to remind
Email_id	Varchar	Member email-id
Remind	varchar	Choice for reminding

Message Table

This table contains name, email-id and message.

Field name	Data type	Description
Sname	Varchar	Sender name
Email_id	Varchar	Sender email_id
RName	Varchar	Receiver's name
Email_id	varchar	Receiver's email_id
Message	Text	Message to post

4.4 PROCESS DESIGN

The next step does how the system is processing. The member can UPLOAD the Images/videos & for each Image/Videos the Associated sender and receiver Email-id are Collected and stored in the NF Database. The server will classify the senders & Receivers ID and store them separately. The servers also add some Banner of themselves and periodical changing the banners is also allowed. While receiver receives the Images/videos, a link is established for them through which they can visualize them.

Email-id creation:

Description: Deals about Email-id creation for users.

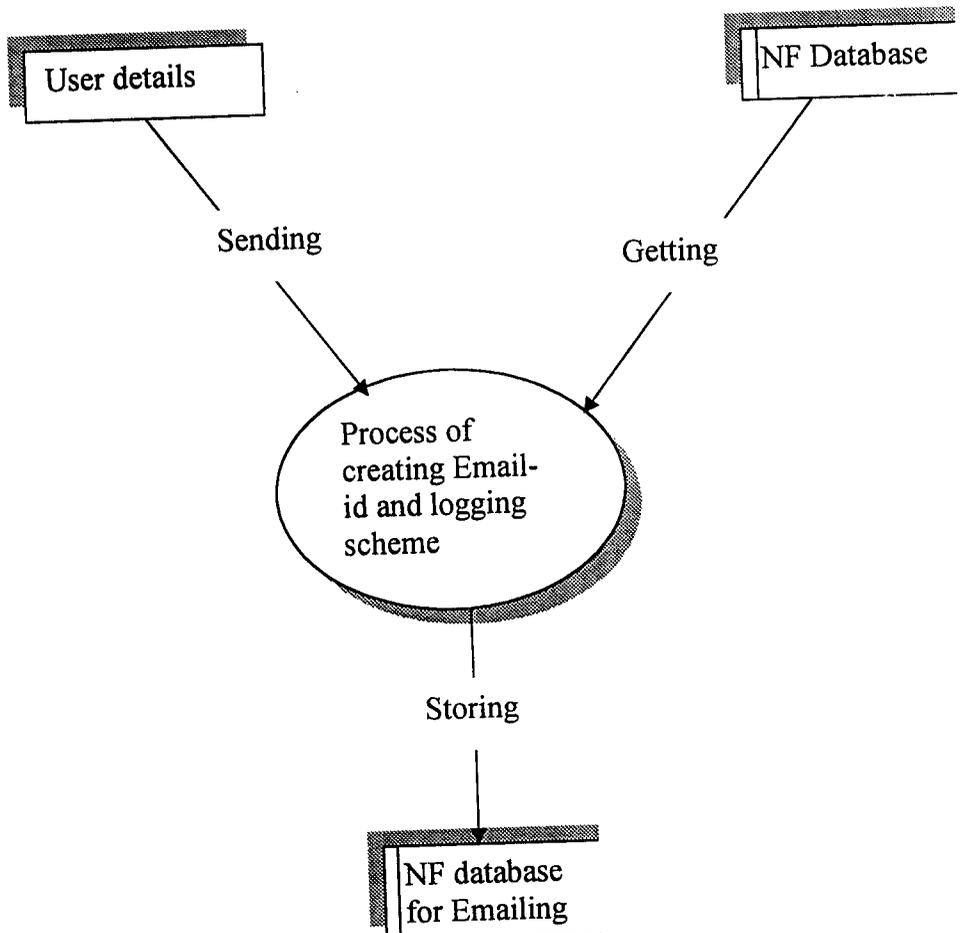


Figure1

Link Creation for picture/video files in Database:

Description: Deals about link creation for picture and video files and storage of links in database.

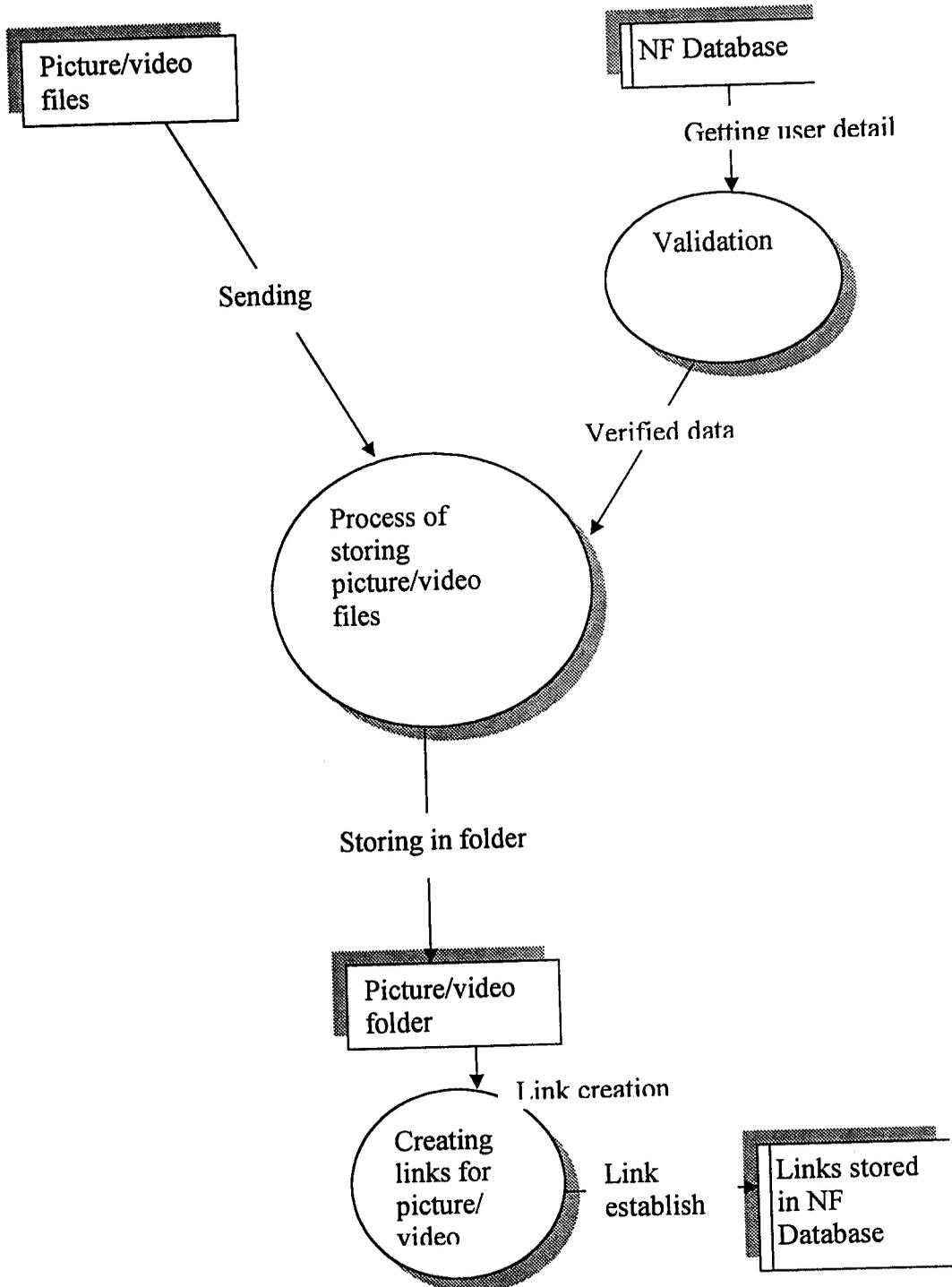


Figure 2

Automating memory management and folder creation:

Description: Deals on memory management and folder creation

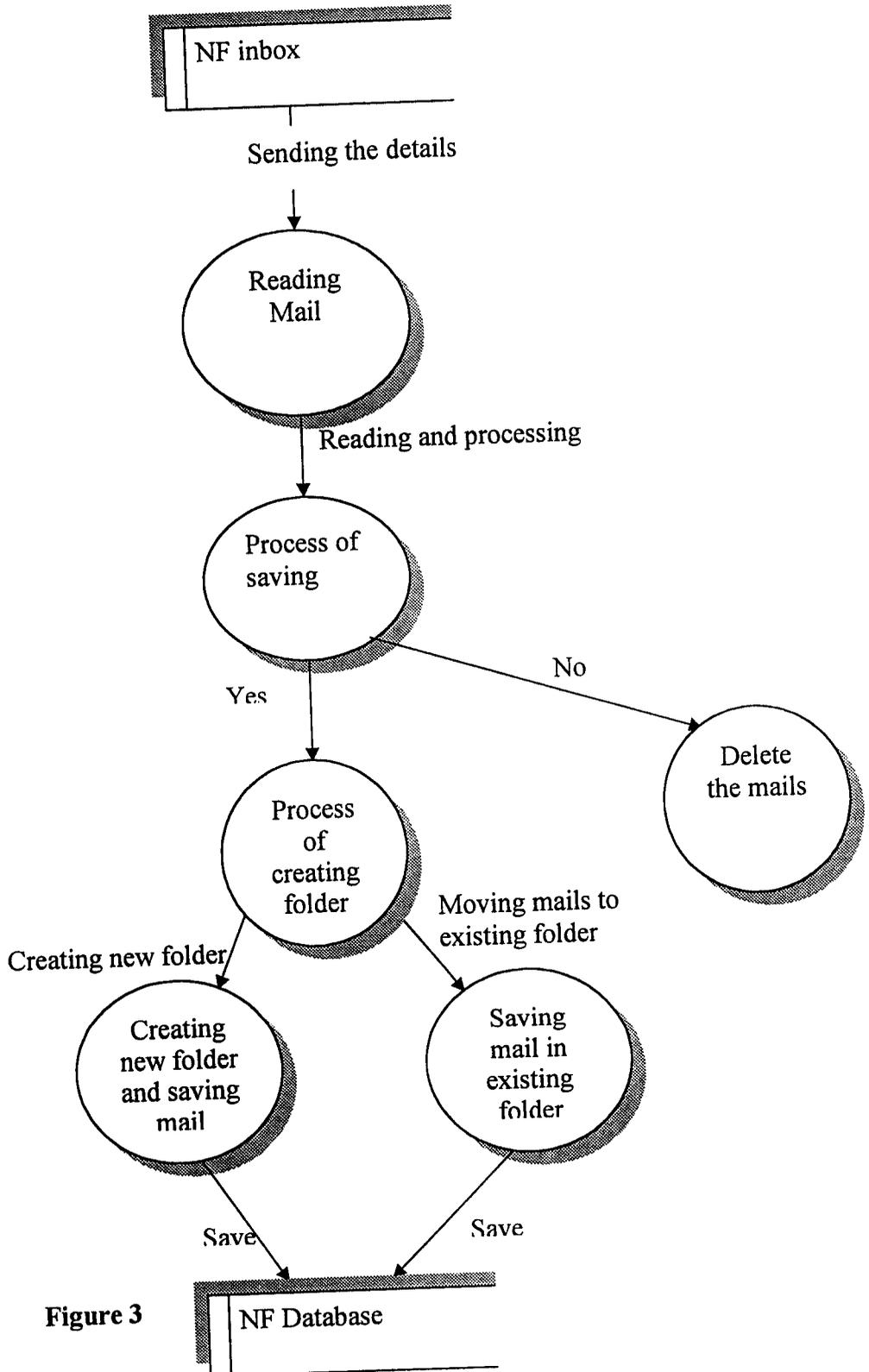


Figure 3

NF Database

Modification of user details:

Description: Deals about users modification details about themselves

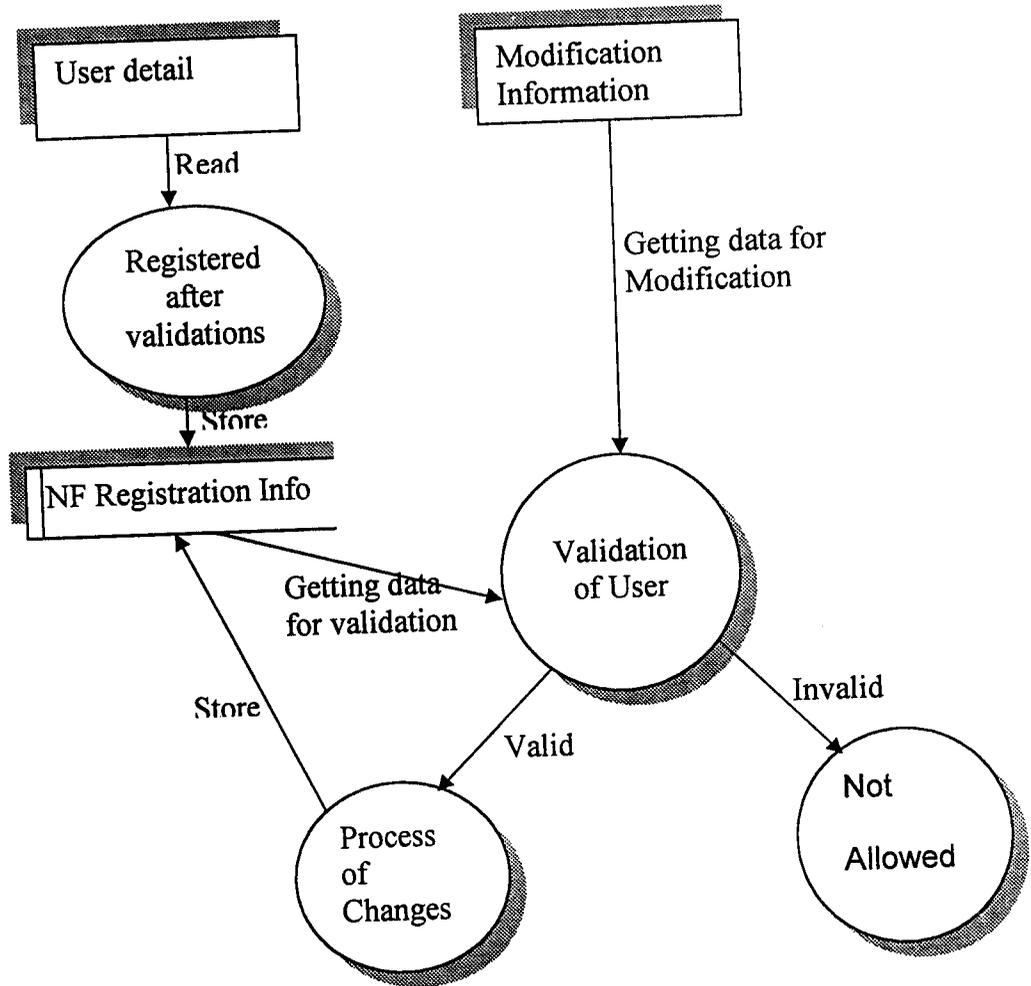


Figure 4

ISAPI filter:

Description: Deals about the validation, traffic analysis, raw data transfer on the Internet using ISAPI filter.

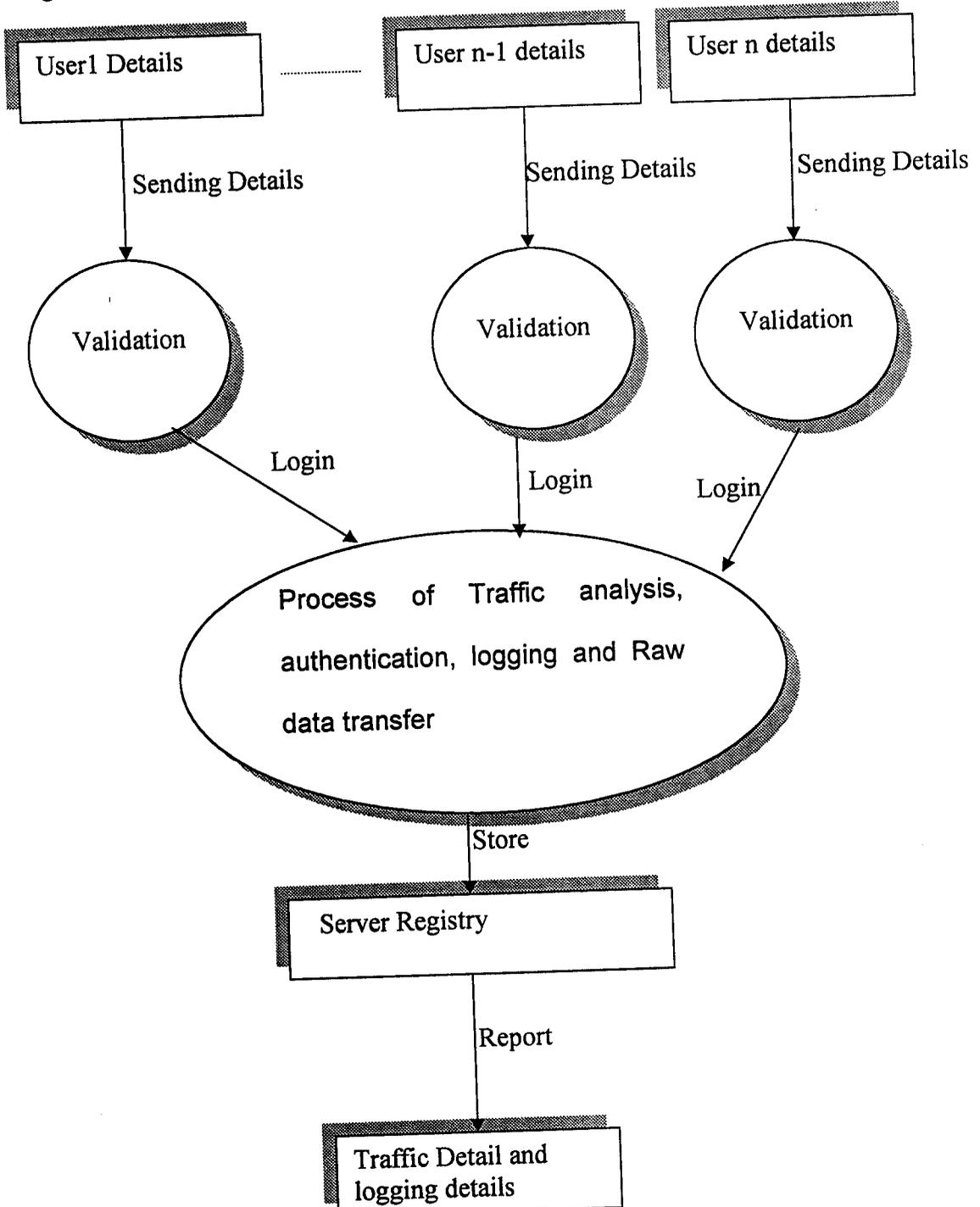


Figure 5

Guest book:

Description: Deals about guest book to store senders and receivers details.

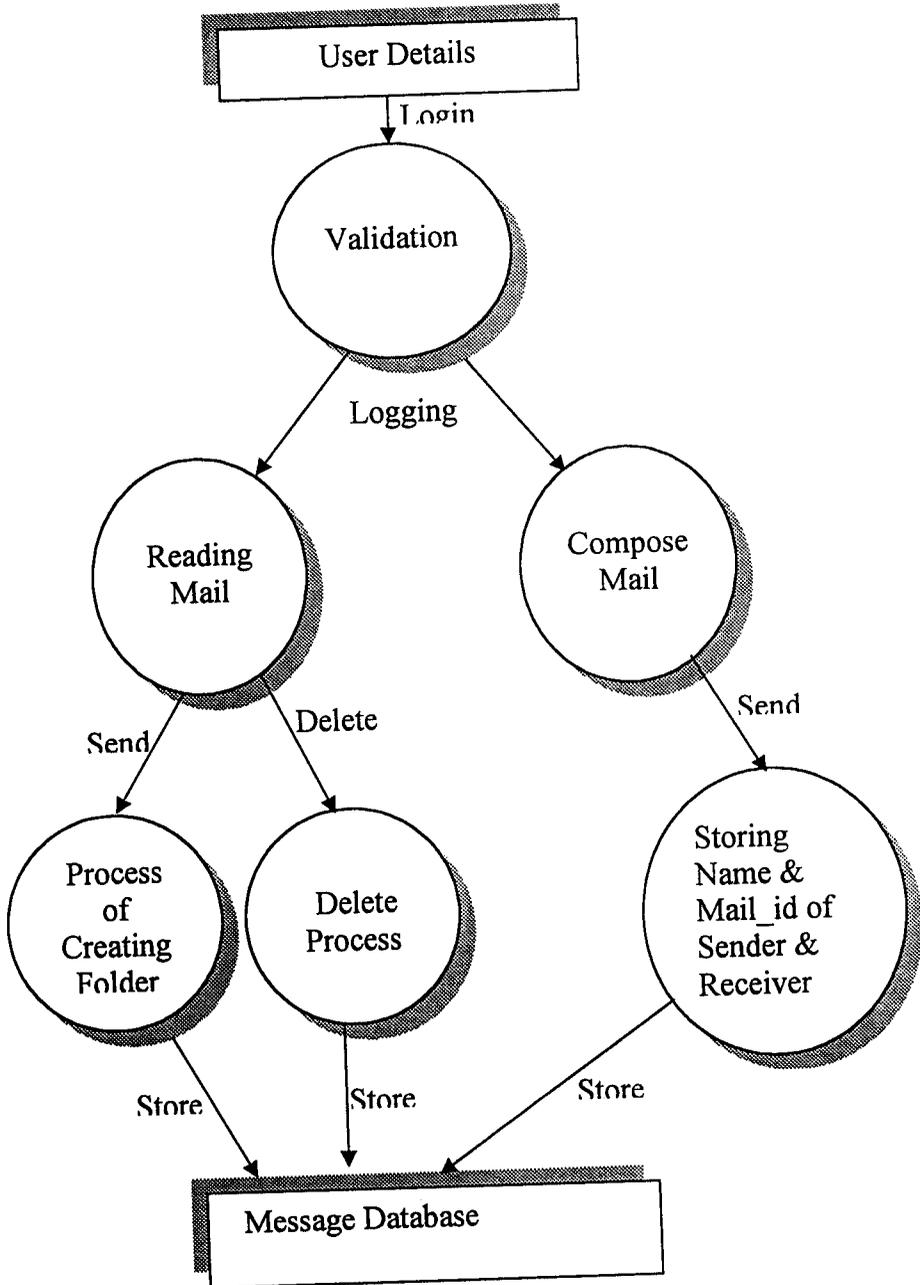


Figure 6

Emailing tool:

Description: Deals about entire functionalities of Emailing Tool.

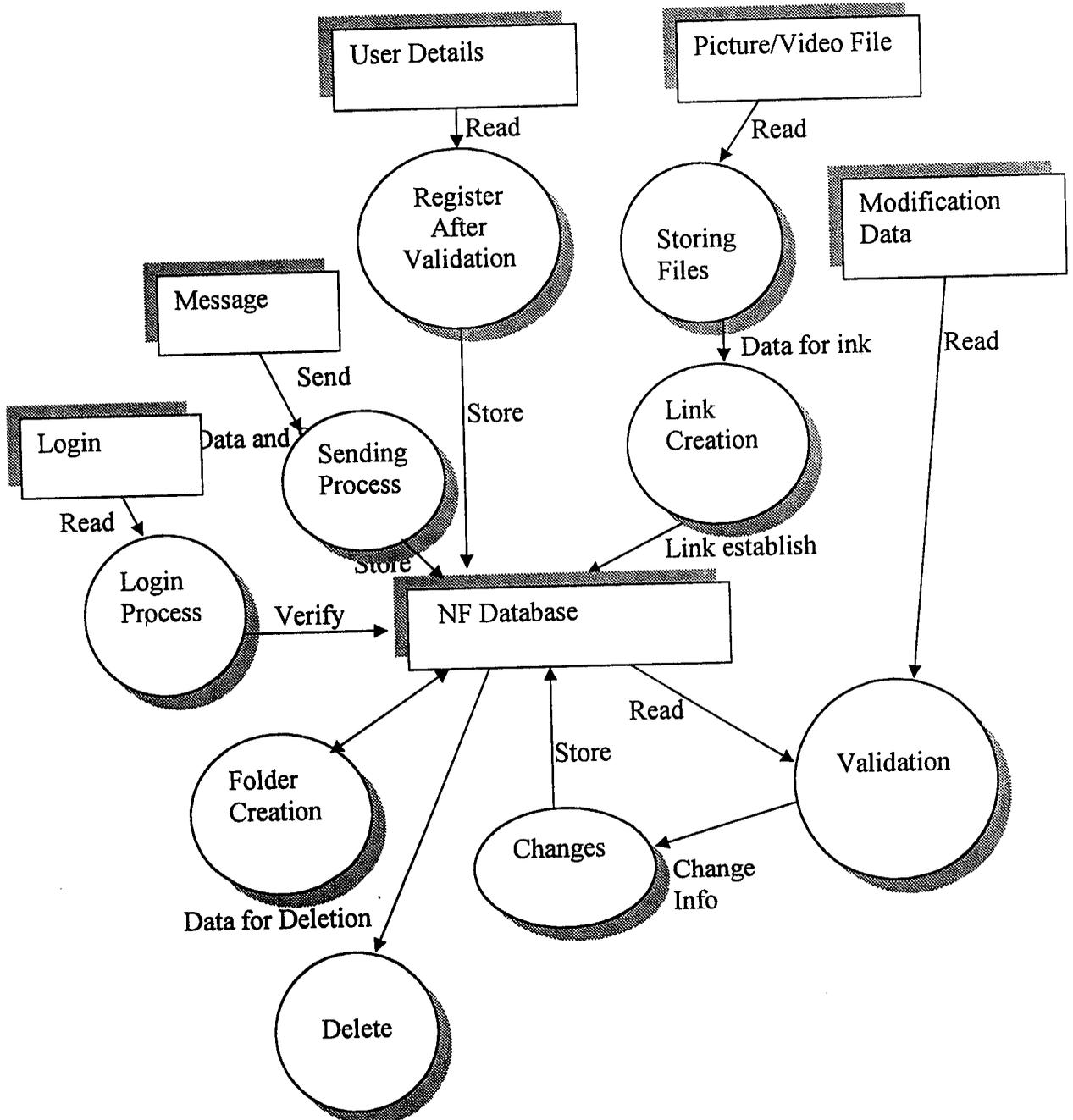


Figure 7

5.SYSTEM IMPLEMENTATION AND TESTING

Implementation is concern with those tasks leading immediately to a fully operational system. It involves programmers, users and operations management, but its planning and timing is a prime function of the systems analysis. It includes the final testing of the complete system to user satisfaction, and supervision of the initial operation of the new system.

5.1 SYSTEM IMPLEMENTATION

In implementing the theoretical design is turned in to a working system and then to monitor the operation of the system to ensure that it continues effectively and efficiently. It involves careful planning, investigation of the current system and it's constraints on implementation. The system is implemented only after the through test is done on each of its subsystem and checking for, whether it is working according to the specification.

Implementation consists of

- Necessary changes are made to this system as described by the users.
- Developed package is tested using local machine as server and also with real server.
- All the errors are corrected.
- Hardware and software utilities are installed.

Since the project consists of several modules. The modules cannot be implemented individually. The other modules are integrated for the successful implementation.

The registration system was implemented in process through pilot run methodology. After the success of the registration system, the manual system for mail was replaced by mailing tool through stage-by-stage implementation.

The success of the mailing tool, ISAPI filter was implemented for enhancing the works like logging, traffic analysis and raw data transfer. Memory management and folder creation implemented as direct changeover. Similarly, guest book module was examined for pilot run and implemented to the system. Thus, the system is implemented.

5.2 SYSTEM TESTING

TESTING:

Testing begins at the module level and works 'outward' towards the integration of the entire computer based system. Different testing techniques had followed at different point in time. Verification and Validation ensure the software quality assurance (SQA).

In email-id registration, the system was tested for validation of fields, which were not allowed to be empty while registering details by users. Existing users were not allowed to create another email-id for them.

Logging schemes were tested through filter, which was between server and clients. Traffic analysis was tested to make the synchronizing so that a limited number of users can access the resources, which will avoid the slowness of the server.

While attaching the picture and video files, the security testing was carried out so to protect the server from the virus. This was achieved with help of Norton Anti Virus software.

The guest book was tested for its correctness by giving sample data. Banners of the company were added tested for its add-rotation property. IASPI filter was tested for its proper working for sample data.

And more over the system tested under white box testing and again in black box testing. The system was tested against users needs now and then, which help to the system development in estimated period, and also it played a vital role for successful implementation. Through testing bugs were debugged and the system was for flexibility and for future enhancement.

6. CONCLUSION

The project entitled as Emailing Tool has been developed and implemented successfully. The application was tested with the user requirements and verified for the validity. The software requirements have been met. Needed Documents were generated and adequate documentation has been provided for maintenance of the system.

The system is designed in such an extendable fashion to incorporate the future changes into the system easily. The various user-friendly features are introduced in this project. There are several future ideas can develop this web application, still in mind. The system is developed according to the requirements specified by the organization. All the dynamic links to other pages are generated and were tested with the actual system. And the application can be run in any browser as it is mainly designed for Internet Application.

7. SCOPE FOR FURTHER DEVELOPMENT

“Emailing Tool” is software for NF Company. Since it is an Internet based project, modifications and updating can be done easily. At any point of time HTML pages can be attached with hyper links to the existing page, without affecting the existing pages.

In future the system may be open to all with free of cost. And the Emailing Tool may be modified on a timely requirement. In due course predefined formats of mails will be displayed, so that user can start writing mails with defined format.

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<http://www.W3schools.com/>, ASP information.

www.aspdeveloper.net

Appendix

Emailing tool home page

Welcome

TO THE REGISTER MAILING

IN



NFSERVER..

E-MAIL



EMAILING TOOL NFSERVER

Creating Mailbox for your E-mail-id

Submit

Reset

Registration form

Please enter the details carefully and concisely for later reference

First Name	<input type="text"/>	Email Address
Last Name	<input type="text"/>	
Company Name	<input type="text"/>	
Address	<input type="text"/>	
City	<input type="text"/>	
State	<input type="text"/>	
Zip	<input type="text"/>	
Country	<input type="text"/>	
Phone	<input type="text"/>	
Fax	<input type="text"/>	

Login form

NFSERVER

Login form

Email-id :

NF number :

Password :

Mail home page

- [Inbox](#)
- [compose](#)
- [Folder](#)
- [Memory](#)
- [greetings](#)
- [About us](#)

WELCOME TO NFSERVER

EMAILING TOOL

Compose

[Inbox](#)
[Compose](#)
[Folder](#)
[Memory](#)
[Greetings](#)
[About us](#)

Compose

To

Email Address

From

Email id

CC

Subject

Message

hai,
Fine and hope the same.

Bye
vijay

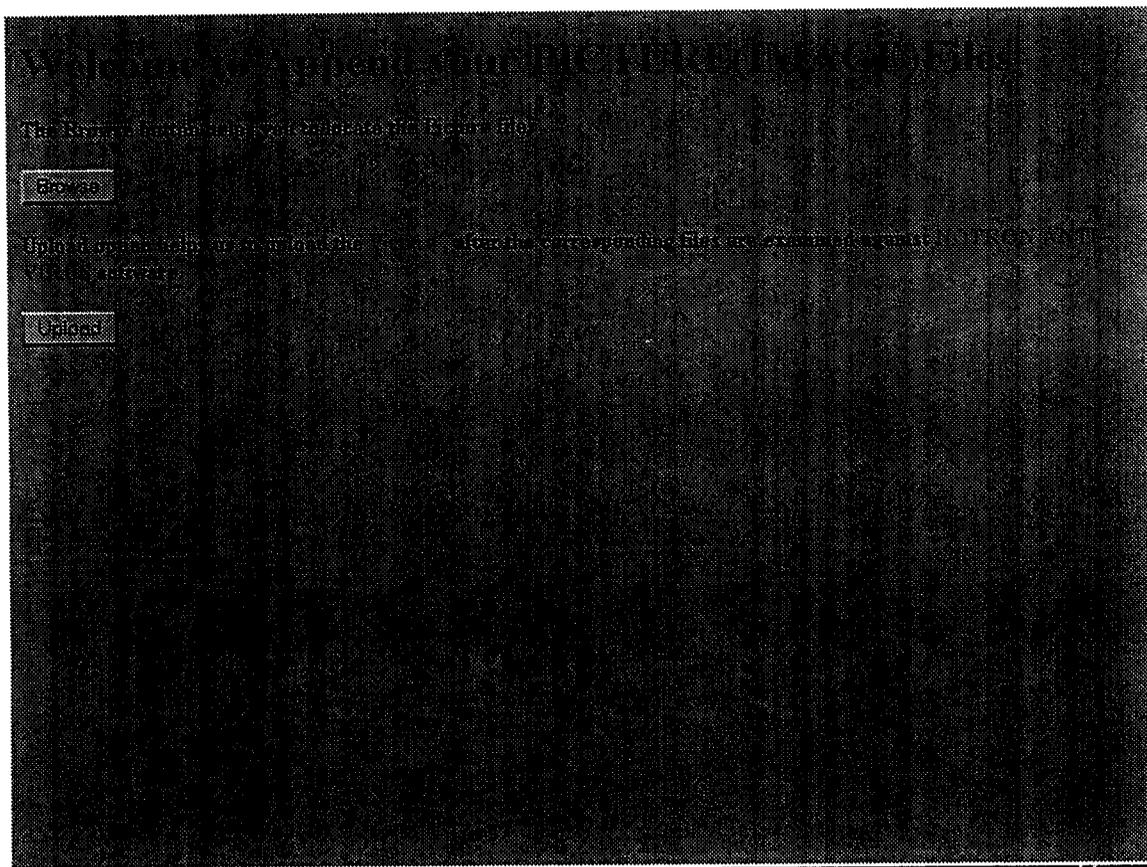
Picture and videos upload form

YOU CAN UPLOAD YOUR PICTURES AND VIDEOS

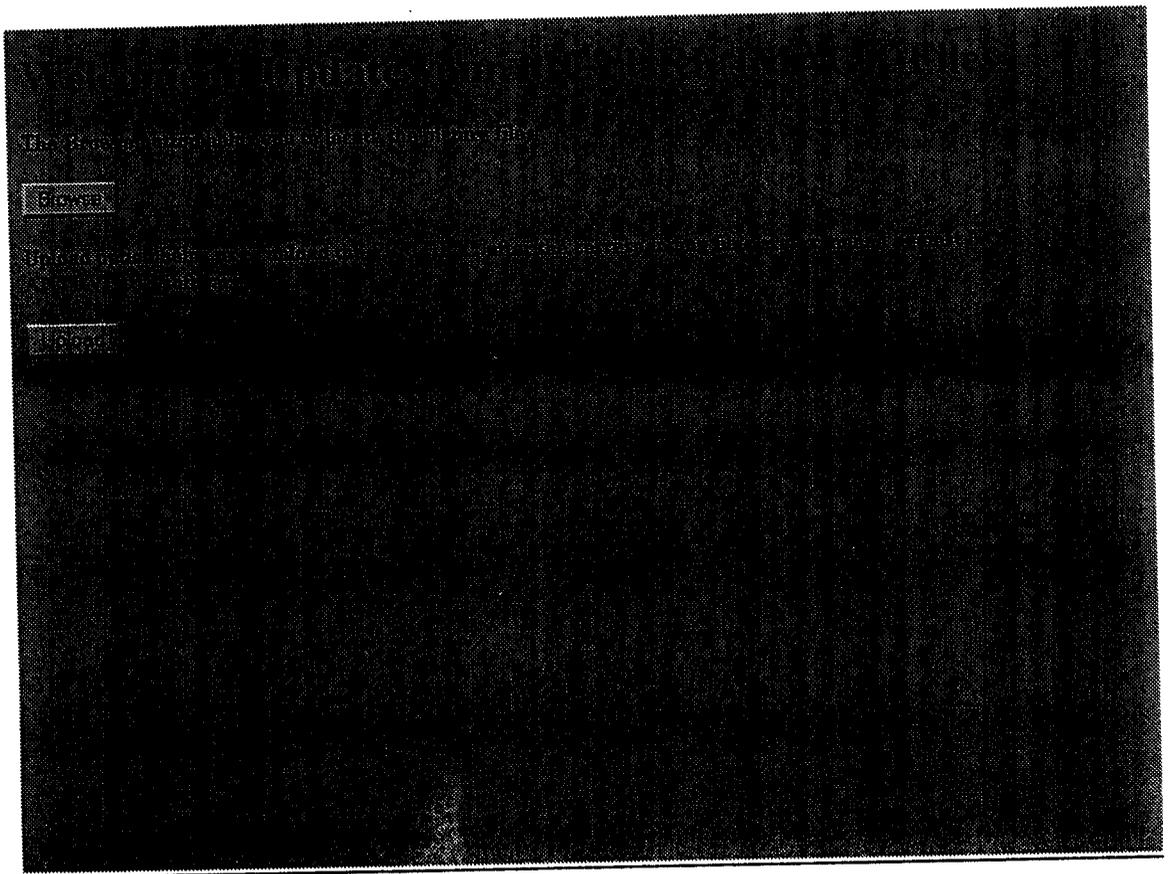
New *Existing*

Picture *Video*

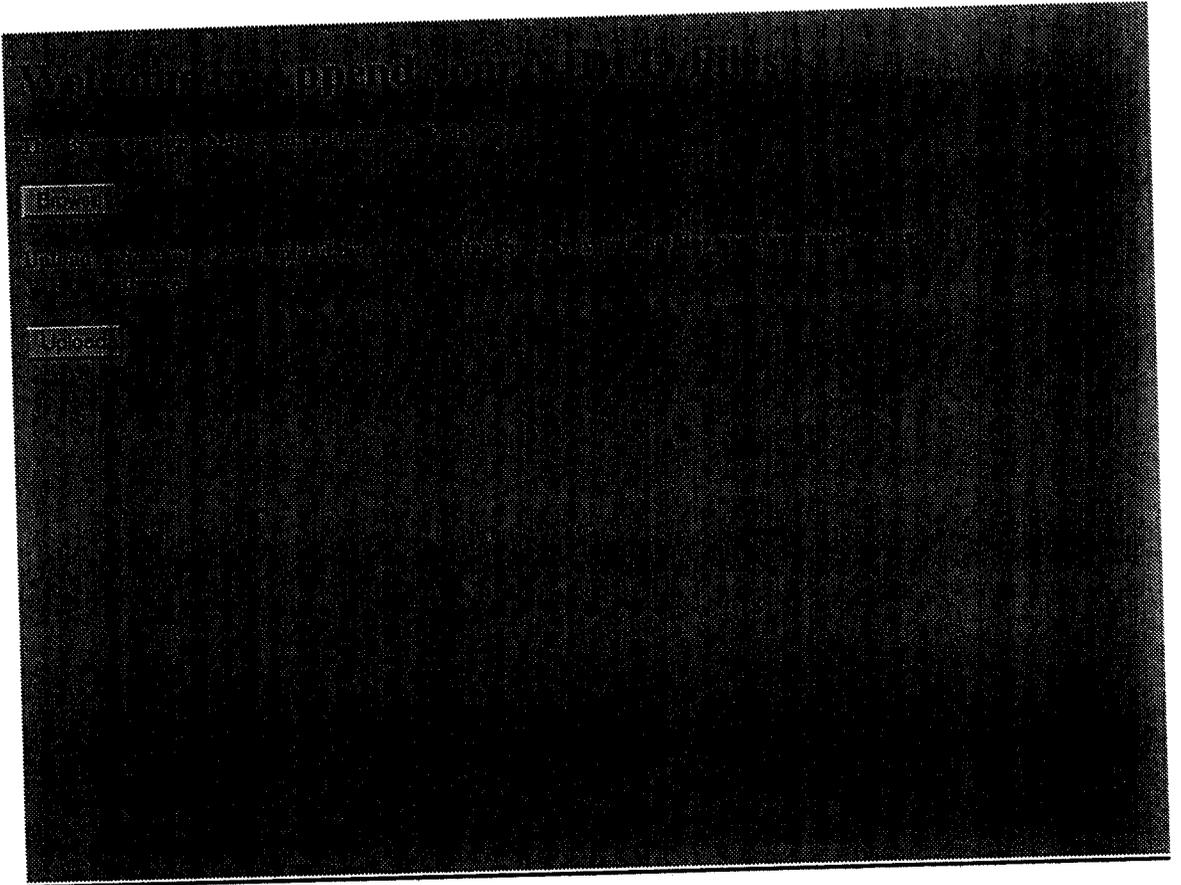
Appending Picture files



Updating picture files



Appending video files



ISAPI Filter in VC++

