

ONLINE ACCOMMODATION MANAGEMENT

PROJECT WORK DONE AT

PROFLUENT TECHNOLOGIES, COIMBATORE

PROJECT REPORT P-777

SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE AWARD OF THE DEGREE OF
MASTER OF COMPUTER APPLICATIONS
OF BHARATHIAR UNIVERSITY, COIMBATORE

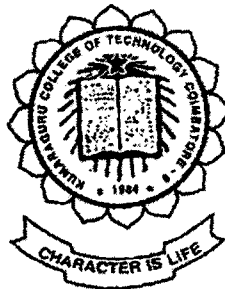
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May 2002

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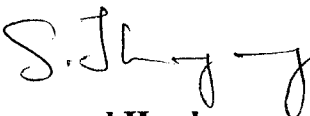
CERTIFICATE

This is to certify that the project work entitled
“Online Accommodation Management System”

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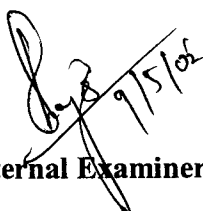
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Submitted in partial fulfillment of the requirements for the award of the degree of
Master of Computer Applications of Bharathiar University.


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TO WHOMSOEVER IT MAY CONCERN

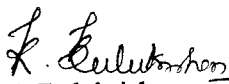
This is to certify that Mr. K. PONNAIYAN final year M.C.A (Master of Computer Applications) student of Kumaraguru College of Technology, Coimbatore has successfully completed the project titled "Online Accommodation Management" during the period December 2001 to April 2002.

The project was developed using ASP and SQL Server 7.0.

Since the source code is of strict confidentiality it cannot be provided in any format.

We wish him all success in future endeavors.

For PROFLUENT TECHNOLOGIES INDIA PVT LTD.,

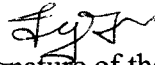

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DECLARATION

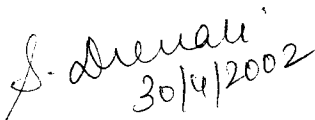
I hereby declare that the project entitled “**ONLINE ACCOMMODATION MANAGEMENT SYSTEM**” submitted to Bharathiar University as the project work of **Master of Computer Applications Degree**, is a record of original work done by me under the supervision and guidance of **Mr.Balakrishnan, Project Leader, Profluent Technologies, Coimbatore** and **Mrs.S.Devaki B.E.,M.S., Department of Computer Science and Engineering, Kumaraguru College Of Technology, Coimbatore** 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.

Place: Coimbatore

Date: 30/4/2002


Signature of the student

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K.Ponnaiyan

Synopsis

The project entitled 'Online Accommodation Management' is developed for Profluent Technologies, Coimbatore.

Till the advent of e-commerce, business transactions were done through postal orders. With the arrival of e-commerce and due to its effective online transactions, business has been placed on to a new track.

Online Accommodation Management system maintains details about the house/office/building that are available for rent around the country of the registered owners. Based on the needs of the tenants the company accommodates the house/office/building.

The owners are categorized as Partial Owners and Complete Owners. If the owner selects the category as partial Owners the company just introduce the tenant and get a commission. If the owner selects the category as Complete Owners the company takes all responsibility of collecting advance, rent per month and maintenance. The company gets 10% commission from the monthly rent and produces necessary reports to the owners.

The tenant who wants house/office/building for rent should search by giving his/her requirement and can book the house/office/building. If the tenant selects the partial owners of house/office/building he has to pay commission. If the tenant selects the complete owners of house/office/building he has to pay 10% commission from the rent per month to the company.

The system provides several features for management. The administrator can enter the cash/DD payment of owners/tenants, database manipulation, mailing to owners/tenants and also produce periodical reports to the management.

The system also provides additional free services, Bill (Electricity, Water and Telephone) payments for the Complete Ownership tenants. Proper security features have been added in order to prevent unauthorized access during the transactions thus leading to a successful delivery of service.

The system is developed using

- IIS (INTERNET INFORMATION SERVER)
A web server used to satisfy the client requests.
- ASP (ACTIVE SERVER PAGES)
An advanced tool to communicate with the database and server by writing scripts.
- HTML (HYPERTEXT MARKUP LANGUAGE)
Tool to provide good interface for use in web pages.
- JAVA SCRIPT
Scripting language used to process client side requests faster.
- MICROSOFT SQL SERVER
Back end database to store data.

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1. INTRODUCTION

1.1 PROJECT OVERVIEW

“Online accommodation management system” is a software developed for managing all activities of the accommodation company. Electronic commerce is the process of using digital technology as the medium for transmitting information between organizations. The digital technology replaces paper-based processes, resulting lower costs, greater accuracy, and higher speed. The advent of the Internet has fueled the explosive growth in this of commerce.

Any owners who want to leave their house/office/building for rent should register the tolet information and he has to pay deposit for activation. There are two type of category for owners

- Partial Owners
- Complete Owners

For Partial Owners category the company just introduce the tenant and get a commission from owners and tenants. For Complete Owners category the company takes all responsibility of collecting advance, rent per month and maintenance of house/office/building. The company earns 10% commission from rent per month of owners and tenants and provides several services to them.

The tenant, who wants house/office/building for rent, should give their requirements and system will search and display all the related information to the tenant. Once tenant satisfied with the tolet information he can reserve.

If the tenant reserved tolet is Partial Owners he should pay one-month rent as commission. Else if the tenant reserved tolet is Complete Owners he should pay the advance amount with certain period otherwise the reservation is cancelled.

On vacation of house/office/building the tenant should register the vacation details in the system. The company members will visit the house/office/building on the vacation date. If there is any damage, the amount is calculated and reduced from the advance amount.

The payment can make through credit card and also directly through Cash/DD. The system provides security for credit card information through Secure Socket Layer

The administrator should enter into the system by proper authentication. He has the provision to Manipulate Database, Mailing to owners/tenants, activation of toilet information, and reports. The system also provides several periodical reports for the management about owner/tenant information, reserved, allotted reports etc.

The whole system has been categorized into two – Client Side and Server side.

The client side functions from the viewpoint of the owner/tenant who wishes to transact with accommodation system. The registration of toilet information, searching, and booking is all taken care of at the client side. Provision has been given for the user on the client side to have proper security over the data that is being transacted. The system provides a very easy point-and-click user interface that helps in easy understandability and readability of the whole process.

The server side functions from the viewpoint of the server side user of accommodation company. He has complete control over the databases in transit. Provision has been given for viewing the information in any of the databases by means of the corresponding password. Security features have been added for proper authentication and for ensuring adequate security for the information contained within the databases. Mailing to owner/tenant, activation of toilet information, payment through cash/DD, and reports are done by the server side user.

1.2 ORGANIZATION PROFILE



Profluent Technologies India Private Limited is the result of a vision cherished by a group of young entrepreneurs with the zeal to establish a successful business in Information Technology.

Profluent Technologies provides authentic IT solutions to its clients with its plethora of skills in Cutting Edge Technologies. The strengths of the company are its people; 76 professionals from diverse technical backgrounds – all converged to promote a synergy hitherto unseen.

A dedicated R & D division ensures that the company toes the line with all innovations in the industry. Rigid quality control methods ensure timely delivery of quality software. An agile support team augments the services provided by the company.

Profluent Technologies strives to be responsible market leader while also contributing immensely to the expectations of its shareholders, growth of its employees and well being of society.

The development unit has an advanced local Area Network with equipment from top brands like IBM, Intel, and HP etc. High-speed data transmission facilities are available to cater the needs of overseas clients.

SERVICES

- ❖ APPLICATION DEVELOPMENT.
- ❖ INTERNET SOLUTIONS.
- ❖ WEB SITE DESIGN.
- ❖ WEB CONTENT DEVELOPMENT & INTEGRATION.
- ❖ WEB APPLICATION DEVELOPMENT.
- ❖ PORTAL DEVELOPMENT.
- ❖ LONG TIME WEB SITE SUPPORT AND MAINTENANCE.

APPLICATIONS DEVELOPMENT

Custom solutions for all types of business, utilizing superior systems analysis and design techniques, ERP solutions for medium and large enterprises, redesign and conversion of existing systems.

INTERNET SOLUTIONS

Profluent Technologies is a one-stop solution provider to put your business on the Internet. They provide Internet solutions that enable organizations and business systems to improve information exchange and communication by connecting together vendors, customers, suppliers and distributors over the web.

WEB SITE DESIGN

Web sites designed by Profluent Technologies are fast, browser independent, visually appealing, and easy to navigate features that are essential to capture and retain target audience. The web design team has immense experience on the following key elements of website designing:

- ❖ HTML coding.
- ❖ Web graphics design.
- ❖ Template and macros design.
- ❖ Interactive navigational devices.
- ❖ Synchronization with web editing tools.

WEB CONTENT DEVELOPMENT & INTEGRATION

Profluent Technologies develop and apply the needed content in an appropriate manner to best serve the needs and interests of the diverse website community.

Work in this area covers:

- ❖ Conversion of legacy documents to HTML.
- ❖ HTML template integration.
- ❖ Forms and database integration.
- ❖ Security.

WEB APPLICATION DEVELOPMENT

They provide web based enterprise solutions to bind disparate systems into a single environment that allows organizations to effectively integrate their internal and external Services. Transactional integrity, scalability and requisite security are some of the salient features of our solutions.

PORTAL DEVELOPMENT

They specialize in the development of various kinds of portals and EDI solutions that will enable

- ❖ Companies to advertise their products.
- ❖ Clients and dealers to meet virtually.
- ❖ Online Business and financial transactions.

LONG TERM WEBSITE SUPPORT AND MAINTENANCE

- ❖ Web site and web server administration.
- ❖ Content translation and updating.
- ❖ Search engine maintenance.
- ❖ Internal and external link management.

FACILITIES MANAGEMENT

Facilities management is a service package offered on an annual basis for managing single or multiple sites. The package includes:

- ❖ Network study, designing, analysis and services on implementation methods.
- ❖ All server, client, database, peripheral integration with a variety of LAN operating platforms.
- ❖ Host / remote connectivity configuration services.
- ❖ Seamless integration of all network platforms.

2.SYSTEM STUDY & ANALYSIS

2.1 EXISTING SYSTEM

The existing system uses a single system for most of the process involved. Any owners, who wants to leave their house/office/building for rent has to approach the accommodation company in order to find the tenants. All the details of the registration have been stored in the single computer. If the tenant needs house/office/building for rent, he has to approach the company directly or through postal service. If there is any availability the company allotted the house/office/building as per the requirement.

The company has several branches all over the country and the tolet information is stored where the owners registered. If the tenant needs of house/office/building information, which is situated in different area, he has to contact the nearby branches and then company has to contact the other branch for tolet information. The operator has to communicate the other branches for reservation and allotment. Requirement analysis is used to analyze the knowledge about the existing system.

After understanding the limitations of the existing system and identification of the problem, 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 within the organization.
- How data is spread over the organization.
- How the data are searched for within the organization
- How the users communicate
- How safe the data is used within the organization
- What are the files currently in use within the existing system
- What is the procedure in use for the data retrieval and transit

Limitations of the existing system

The existing system use a single system for most of the process involved, there is no inter connection between the branches. Owners and tenant has to approach the accommodation company directly are through postal service. For getting various reports it needs to contact all the branches and collect the details.

Since the manual processing is the only way for accessing the information, this system will lead to following limitations.

- It increases the amount of paper work and clerical cost involved, thus decreasing the efficiency and increasing the cost
- It results in wastage of time for communication between the branches
- There can be information misleading at every stage during the transaction of the data
- With effect of all these limitations, the company finally loses its position within the market with respect to its competitors

These disadvantages of the existing system have led to the development of the new system using digital technology, which replaces the paper-based process, resulting in lower cost, greater accuracy and higher speed.

2.4 USER CHARACTERISTICS

The system has been designed as a very easy-to-understand point & click interface system. The whole system is partitioned into two categories – Client side and Server side depending on the mode of operation performed by the user. Hence the characteristics to be possessed by the user vary on both the sides.

Client-side user characteristics

The client-side users of the system should possess the following knowledge

- Knowledge about surfing the Internet is necessary.
- He should have a mail account (For communication purpose).
- Knowledge about using any mailing client.
- Minimum data entry knowledge.

Server-side user characteristics

The server side user of the system should possess the following knowledge

- Minimum data entry knowledge.
- How to interact with the database.

2.3 REQUIREMENTS OF NEW SYSTEM

The accommodation company functions are made Online in order to promote business. The process of owner's registration, tenant searching and Booking and payment within the system is done via some electronic means. The system is being designed in order to overcome the limitations faced by the existing system and hence should possess the following features.

- The system should enable communication between both client and company faster and more accurately. Since all the processes starting from registration, booking and payment all done electronically, it improves the efficiency and reliable.
- The user can achieve the updations and retrieval of data at any time.
- Data must be centralized, so any branch can access the data and easy to manage the database.

2.4 PROPOSED SYSTEM

The proposed system should be developed in such a way to solve the problem faced by the existing system. The ideal environment is the Windows environment; as it is the most popular multitasking system available today. The tool used to develop the system is Active Server Pages for its flexibility and versatility.

The proposed system uses backend as SQL Server, which is a Database system with powerful querying functions and easy accessing. The system is user friendly and driven by hyperlink. Enough security features are provided both to the server side functions consisting of the databases and client of the new system. A good interface is provided to the user in the form of an easily understandable point-and-click interface system.

The system has been divided into two based upon the mode of use as Client side and Server side. The Client Side functions from the viewpoint of the end-user of the system.

The client side function of the proposed system is divided into three categories as follows.

USERS OF THE PROPOSED SYSTEM

- Owners
- Tenants
- Administrator

Any owners who want to leave their house/office/building for rent should register the tolet information and he has to pay deposit for activation. There are two type of category for owners

- Partial Owners
- Complete Owners

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On vacation of house/office/building the tenant should register the vacation details in the system. The company members will visit the house/office/building on the vacation date. If there is any damage, the amount is calculated and reduced from the advance amount.

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The administrator should enter into the system by proper authentication. He has the provision to Manipulate Database, Mailing to owners/tenants, activation of tolet information, and reports. The system also provides several periodical reports for the management about owner/tenant information, reserved, allotted reports etc.

ADVANTAGES OF THE PROPOSED SYSTEM

➤ **Easy accessing**

Since the system is available on the Internet, anybody can be access the system from anywhere and any time.

➤ **Easy and Efficient User Interface**

The users of the system are provided with easy and efficient User-Interface.

➤ **Details about the Norms**

The system provides a detailed description about the norms for owners and tenants.

➤ **Registration of tolet information**

The system provides an easy way for registration of house/office/building.

➤ **Searching of house/office/building for Rent**

The tenant should give the needs about the house/office/building for searching. If the tolet information is available the system displays the information else the tenant can register his needs. If there is any availability the system send a mail to tenant.

➤ **Efficient report generation**

Since the data is stored in a centralized manner, the manager can easily get all the details in a point-click. This will avoid the need for huge paper work.

➤ **Easy maintenance of the database**

System is providing an easy way for the administrator to maintain the database so that he can easily manage the database.

➤ **Interconnection of branches**

Since all the data is stored in a centralized server all branches can access the data very easily and this will reduce the communication cost between the branches.

3. PROGRAMMING ENVIRONMENT

3.1 HARDWARE CONFIGURATION

Processor	:	Intel Pentium or above
Memory	:	64 MB
Cache Memory	:	512 KB
Hard Disk	:	10 GB
Modem	:	56 KBps Internal modem

SOFTWARE CONFIGURATION

Operating System	:	Windows 9x / 2000
Web Client	:	Internet Explorer/ Netscape Communicator

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

Internet tool used for web designing.

- JavaScript / VBScript

Scripting Language used to run client side events.

- Internet Information Server

Web server to response for client side requests.

- Microsoft SQL Server

Database used to store data.

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 the browser or client). And the advantages that ASP, which makes us to choose our project, is that,

- **Simplicity and speed:** It is very simple and speed over the CGI and Pearl.
- **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 six Active Server Objects, each of which deals with specific aspect of interactivity and are intended and are intended to simplify browser and page control

1. Response Object

Used to send information to the client.

2. Request Object

Used to retrieve information included with the request from the client.

3. Server Object

Used to communicate with the server.

4. Application Object

Used to store (cache) information about your application.

5. Session Object

Used to cache information about a specific browser instance (which usually, but not always, corresponds to a single user)

6.ObjectContext Object

Used to initiate and control transaction and create new objects through Microsoft Transaction Server (MTS).

7. ASPError Object

Used to obtain information about errors that occur while the ASP Engine processes a script.

- **Network Traffic Control:** Minimizes network traffic by limiting the need for the browser and server to talk to each other.
- **Quicker Loading Time:** ASP speeds-up the lading time because only the page of HTML is downloaded in the client's system.
- **Language Support:** Allows you to run programs in languages that aren't supported by the user's browser.
- **Data security:** ASP is able to provide the client with data that does not reside on the client's machine.

Reasons for selecting Hyper Text Markup Language

Hyper Text Markup Language (HTML) is a collection of platform independent styles (indicated by markup tags) that define the various components of a World Wide Web(WWW) document. Tim Berners Lee while at CERN, the European Laboratory for Particle Physics in Geneva, 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 *head*, *table*, *form*, *paragraph* and *list*. 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. The World Wide Web browsers support not all tags. If a browser does not support a tag, it will simply ignore it.

For processing 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. Each interface element in the form must be defined with an appropriate tag. As well as user input elements, the form can contain other elements such as heading, paragraphs, tables and so on.

When the form is displayed in a web browser, the user can fill it out by making choices and entering text using interface elements, and then submit the form by clicking a “submit” button.

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

Eg.

```
<form method =”post” action =”verify.asp”>
```

```
Enter name      :<input type=”text” name=”name”>
```

```
Enter password  :<input type=”password” name=”pass”>
```

```
<input type=”submit” value=”login”>
```

```
</form>
```

The above example pass the value of name and password for the verify.asp file and the user inputs are processed at the server side using ASP.

Reasons for selecting JavaScript

JavaScript is an easy to use Object-Based 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.

JavaScript 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 INTERNET INFORMATION SERVER (IIS)

The Microsoft IIS software is included with the Windows NT 4.0. We are using the Microsoft's Internet Information Server (IIS) because for the reason to publish the web applications into Intranet. IIS combines Web, FTP and Gopher services and are managed by a single application, the Internet Service Manager.

The Microsoft Internet Information Server (IIS) is a secure, high-speed information publishing system that runs on Windows NT server. IIS is highly extensible through the use of Asp.

Features of Internet Information Server (IIS)

HTTP 1.1 SUPPORT

Hypertext markup Language (HTTP) 1.1 is an updated www protocol featuring improved transfer speed, tighter logon security, and adds virtual hosting abilities

HOST HEADERS

Host headers allow multiple host names to be associated with a single IP address. This features means that IP address is not required for every virtual server. The only disadvantage to this method is that not all browser provide header support.

The most popular browsers including Netscape Navigator 2.0 and later and Microsoft Internet Explore 4.0 and later all support this protocol enhancement, making it an increasingly attractive solution for Internet service providers.

Java Script

IIS fully supports Java and JavaScript on the client and server side. Microsoft Jscript is an open implementation of Netscape JavaScript. Jscript is a high performance scripting language designed to create active online content for the World Wide Web (WWW). Jscript allows developers to link and automate a wide variety of objects in web pages, including Active X controls and ASP programs.

Secure Socket Layers support

Secure sockets layers are a security protocol that operates in between TCP/IP connections and HTTP service. Although not yet an industry standard, it can be implemented between Microsoft Internet explore Web clients and IIS. It provides the following features.

- Data encryption to protect transmissions.
- Server authentications to provide secure logons.
- Message integrity to ensure that messages have not been tampered.

A handshake procedure occurs between the client and server at the start of a session in which client and server agree on the level of security they will use to authenticate the connection. After authentication a normal HTTP connection session takes place, except that all data streams between the client and server are encrypted, including the following.

The URL requested by the client.

- Information entered on forms by the user, such credit card numbers.
- Access information like usernames and passwords.
- All the data sent to the client by the server.

Transaction Server

Microsoft Transaction server provides the application infrastructure including transaction, cross-platforms integration and scalability required building reliable distributed business systems easily. Transaction server enables developers to focus on business solutions instead of application infrastructure, lowering the cost and complexity of building and supporting server applications.

Reasons for selecting SQL Server

SQL Server is a powerful multi-user RDBMS, which is used in a project as a backend to store data.

SQL Server has been chosen within the system for following reasons.

- Dynamic self-management of things like memory and locking
- Very large database support
- Better performance
- Better integration with Windows NT security
- More flexible replication
- Full Unicode support
- Centralized management for multiple sites
- Data warehousing and OLAP support
- Microsoft Management Console integration
- Improved Data Transformation Services
- Row level locking
- Parallel query processing
- Distributed query processing
- Many new Wizards

ActiveX Data Object

Microsoft ActiveX Data Objects (ADO) enable you to write an application to access and manipulate data in a database server through an OLE DB provider. Its primary benefits are ease of use, high speed, low memory overhead, and a small disk footprint. ADO supports key features for building client/server and Web-based applications.

ADO also features Remote Data Service (RDS), by which you can move data from a server to a client application or Web page, manipulate the data on the client, and return updates to the server in a single round trip. Previously released as Microsoft Remote Data Service 1.5, RDS has been combined with the ADO programming model to simplify client-side data remoting.

A cross-language technology for data access that exposes an object model incorporating Data Connection objects, Data Command objects, Data Recordset objects, and collections within these objects. The ADO object model provides an easy-to-use set of objects, properties, and methods for creating script that access data in databases.

**SYSTEM DESIGN AND
DEVELOPMENT**

4. SYSTEM DESIGN & DEVELOPMENT

4.1 INPUT DESIGN

When you enter into the accommodation site, the home page is displayed wherein it gives the full details about its functions and norms for owners and tenants, login authentication for administrator etc. The owners who want to leave their House/Office/Building for rent should register. If the client select the owner registration link a new page is displayed in which there are two forms.

- New Owners
- Registered Owners

If the option is New Owner, he/she has to enter the personal information, they are

Name, address, Phone number, and email id

After entering the personal information you have to submit the form, and then it display the tolet information form in which you have to enter the following inputs.

Type, Tolet address, City, Area, Monthly Rent, Advance amount, Number of rooms, square feet, other facility, and category

After entering the tolet information you have to submit the form, and then it display a password form in which the client has to enter the password.

If the option is Registered Owner, he/she has to enter the authentication information, they are

Login Number and password

After entering the authentication information you have to submit the form, and then it display the tolet information form in which you have to enter the following inputs.

Type, Tolet address, City, Area, Monthly Rent, Advance amount, Number of rooms, square feet, other facility, and category

After entering the tolet information you have to submit the form.

The owner who wants to pay the deposit through credit card he/she has to enter the credit card information.

Card number, Card Type, Expires date, and Holder name

If the client selects the Tenant Searching and booking link, a searching form is displayed in which the client has to enter the searching information, they are

Type, City, Area, Monthly rent, Advance amount, and Number of rooms

After entering the searching information the client has to submit a form, it displays several tolet addresses with all information. If the tenant satisfied with the needs, he/she should select the address reference, and a new booking form is displayed in which the tenant should enter the booking information, they are

Name, address, phone number, email id, monthly income, and occupying date

After entering the booking information he has to submit the form, then a password registration form is displayed in which a tenant should enter the password.

The tenant who wants to pay the Advance/ commission through credit card he/she has to enter the credit card information.

Card number, Card Type, Expires date, Holder name, and amount

The tenant who wants to vacate the house/office/building he should enter the vacation details before two weeks. The input here is Vacation date.

4.2 OUTPUT DESIGN

Any owners who want to leave house/office/building for rent should register himself and a confirmation along with Login id and password is given as the output and a mail is send to the owner.

In the tenant searching, the system will display the relative tolet information according to the tenant requirement. After the tenant booking a mail is send to tenant and a confirmation along with norms is displayed as output.

When a payment is made by owner/tenant through credit card a confirmation is displayed as output.

The system provides several confirmation for administrator for Manipulating Database, activating tolet information, Mailing to owners/tenants, and payment through Cash/DD.

The system also provides several periodical reports for the management about owner/tenant information, reserved, allotted and accounts reports etc.

4.3 DATABASE DESIGN

1. Owners Personal Table

Sl.No	Field Name	Data Type	Constraints
1	regis_id	Integer	Primary key
2	password	Varchar (25)	
3	name	Varchar (25)	
4	address	Varchar (60)	
5	phone_number	Varchar (15)	
6	mail_id	Varchar (30)	

2. Tolet Information Table

Sl.No	Field Name	Data Type	Constraints
1	regis_id	Integer	Foreign key
2	Reg_count	Integer	
3	type	Varchar (15)	
4	address	Varchar (60)	
5	city	Varchar (25)	
6	area	Varchar (20)	
7	regis_date	Datetime	
8	monthly_rent	Money	
9	advance_amt	Money	
10	No_rooms	Integer	
11	square_feet	Integer	
12	other_facility	Varchar (60)	
13	category	Varchar (10)	
14	tenant_id	Integer	Foreign key
15	paid_status	Bit	
16	reserved_status	Bit	
17	allotted_status	Bit	

3. Tenants Personal Table

Sl.No	Field Name	Data Type	Constraints
1	tregis_id	Integer	Primary key
2	password	Varchar (25)	
3	name	Varchar (25)	
4	address	Varchar (60)	
5	phone_number	Varchar (15)	
6	mail_id	Varchar (30)	
7	monthly_income	Money	
8	category	Varchar (10)	

4. Tenants Booking Table

Sl.No	Field Name	Data Type	Constraints
1	tregis_id	Integer	Foreign key
2	regis_id	Integer	Foreign key
3	Reg_count	Integer	
4	booking_date	Datetime	
5	occupying_date	Datetime	
6	paid_status	Bit	

5. Tenants Requirement Table

Sl.No	Field Name	Data Type	Constraints
1	name	Varchar (25)	
2	address	Varchar (60)	
3	phone_number	Varchar (15)	
4	mail_id	Varchar (30)	
5	req_reg_date	Datetime	
6	type	Varchar (15)	
7	city	Varchar (25)	
8	area	Varchar (25)	
9	monthly_rent	Money	
10	advance_amt	Money	
11	no_rooms	Integer	
12	square_feet	Integer	
13	needed_date	Datetime	

6. Owner Deposit Payment Table

Sl.No	Field Name	Data Type	Constraints
1	regis_id	Integer	Foreign key
2	reg_count	Integer	
3	payment_mode	Varchar (6)	
4	paid_date	Datetime	
5	amount	Money	
6	dd_no	Varchar (20)	Null
7	bank_number	Varchar (30)	Null
8	bank_address	Varchar (50)	Null

7. Tenants Advance/Commission Payment Table

Sl.No	Field Name	Data Type	Constraints
1	tregis_id	Integer	Primary key
2	regis_id	Integer	Foreign key
2	reg_count	Integer	
3	payment_mode	Varchar (6)	
4	paid_date	Datetime	
5	amount	Money	
6	dd_no	Varchar (20)	Null
7	bank_number	Varchar (30)	Null
8	bank_address	Varchar (50)	Null

8. Tenant Rent Payment Table

Sl.No	Field Name	Data Type	Constraints
1	tregis_id	Integer	Foreign key
2	payment_mode	Varchar (6)	
3	Paid_date	Datetime	
4	amount	Money	
5	dd_no	Varchar (20)	Null
6	Bank_number	Varchar (30)	Null
7	Bank_address	Varchar (50)	Null

9. Tenants Vacation Table

Sl.No	Field Name	Data Type	Constraints
1	tregis_id	Integer	Foreign key
2	reg_date	Datetime	
3	vacation_date	Datetime	

10. Owner Credit Card Payment Table

Sl.No	Field Name	Data Type	Constraints
1	regis_id	Integer	Foreign key
2	reg_count	Integer	
3	paid_date	Datetime	
4	card_type	Varchar (20)	
5	card_number	Varchar (20)	
6	card_expires	Datetime	
7	card_holder_name	Varchar (25)	
8	Amount	Money	

11. Tenant Credit Card Payment Table

Sl.No	Field Name	Data Type	Constraints
1	regis_id	Integer	Foreign key
3	paid_date	Datetime	
4	card_type	Varchar (20)	
5	card_number	Varchar (20)	
6	card_expires	Datetime	
7	card_holder_name	Varchar (25)	
8	amount	Money	

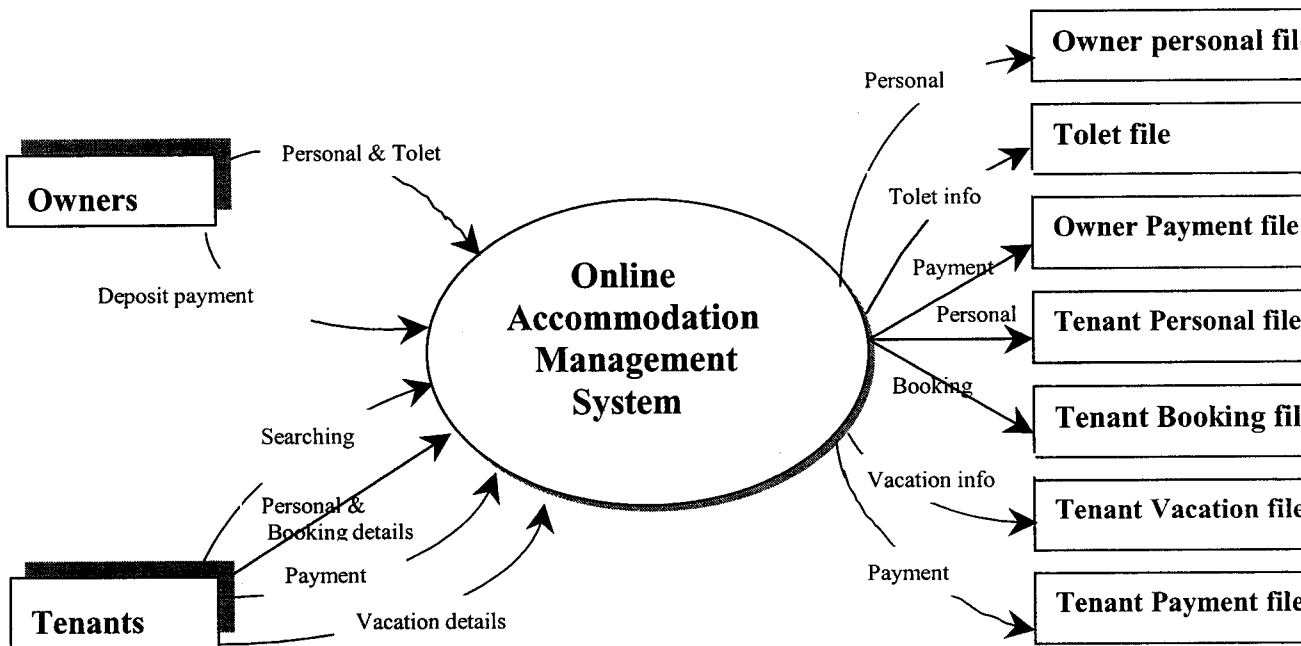
12. Authentication Table

Sl.No	Field Name	Data Type	Constraints
1	name	Varchar (25)	
2	password	Varchar (30)	

4.4 PROCESS DESIGN

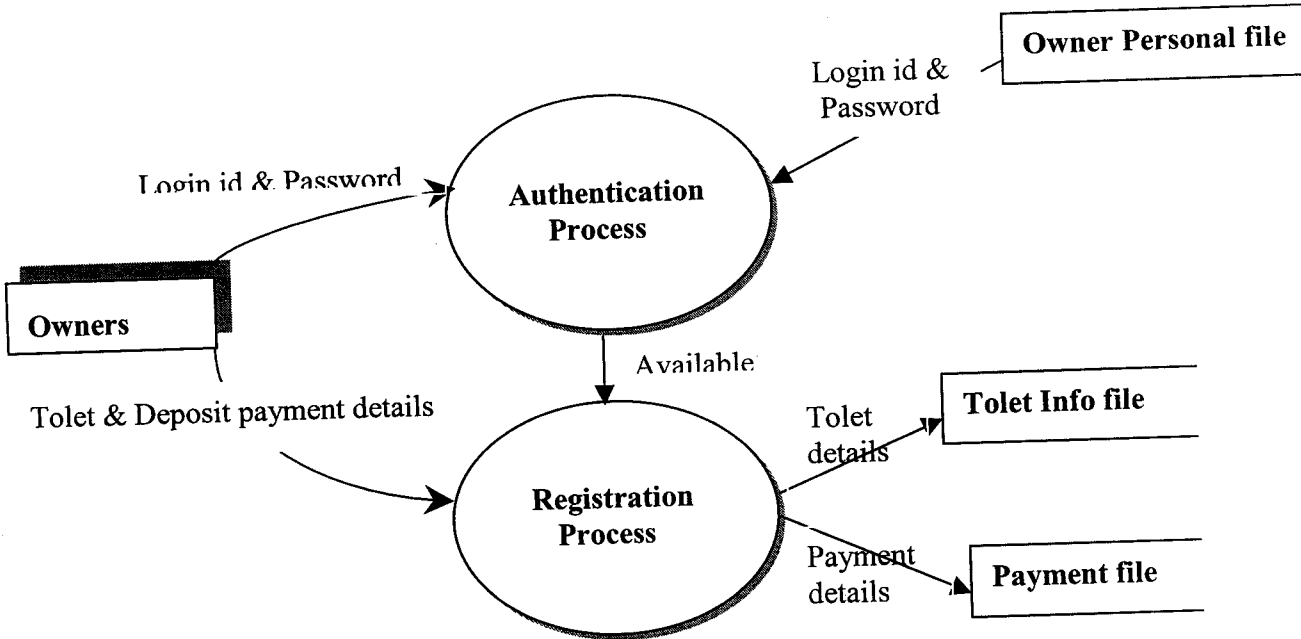
DATA FLOW DIAGRAMS

Context Level DFD

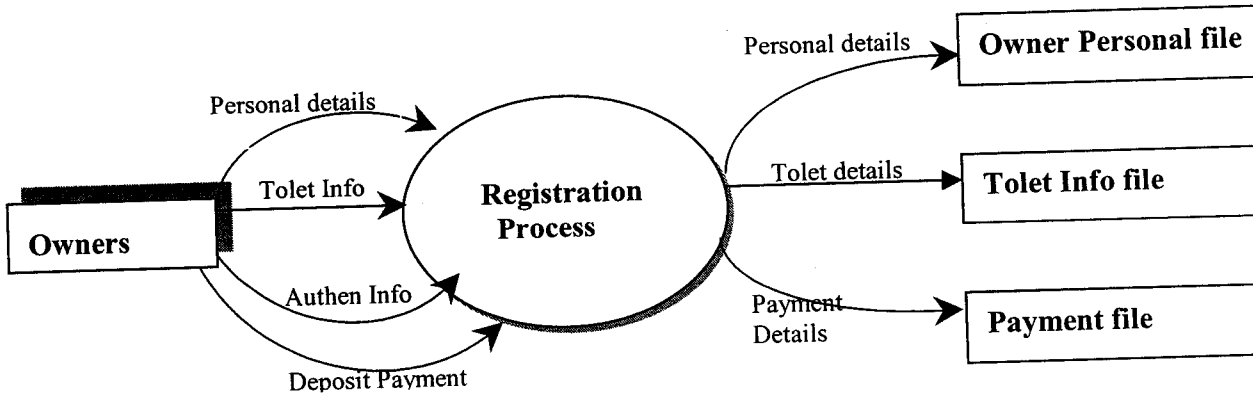


DFD for Owner Registration

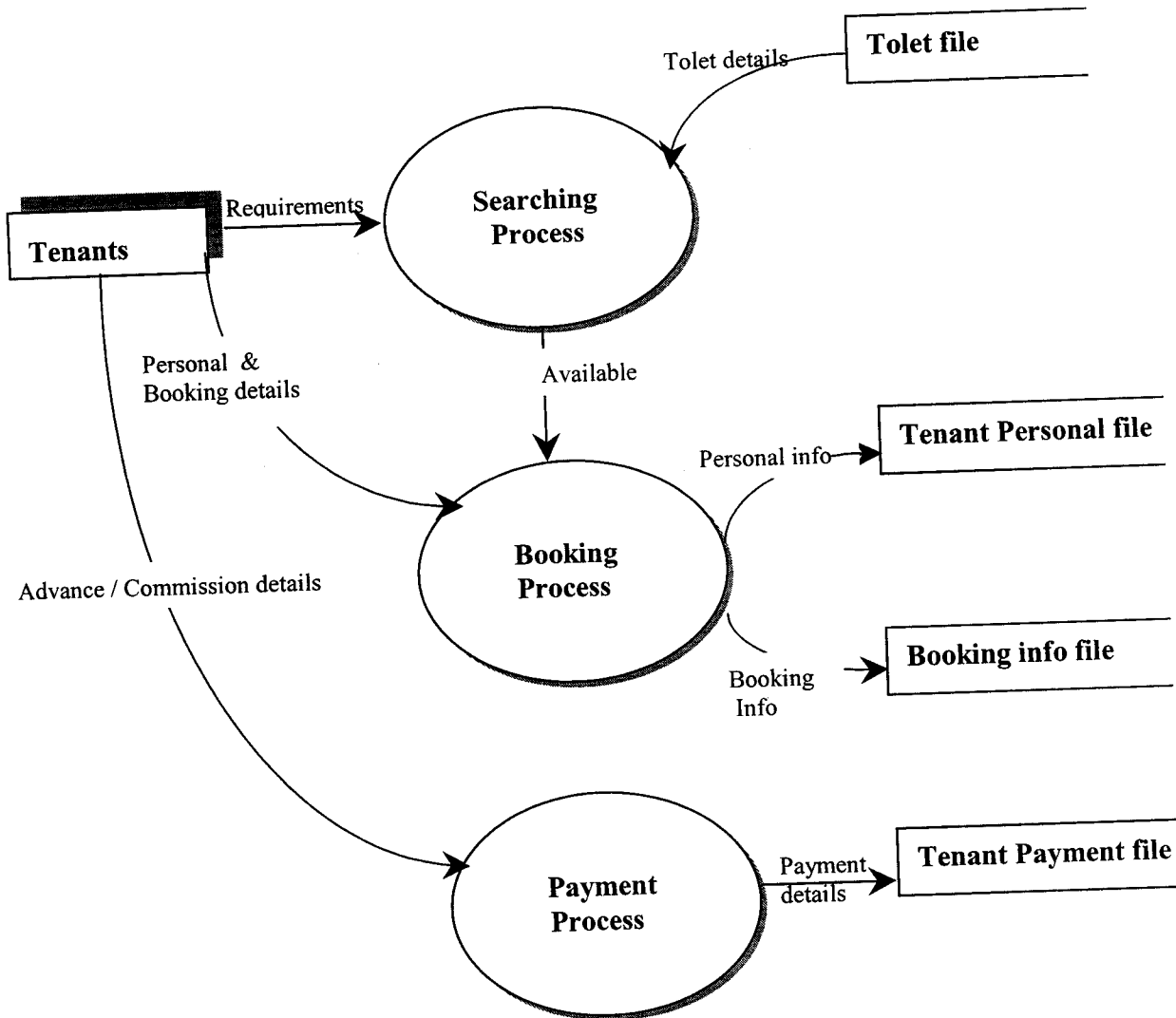
Registered User



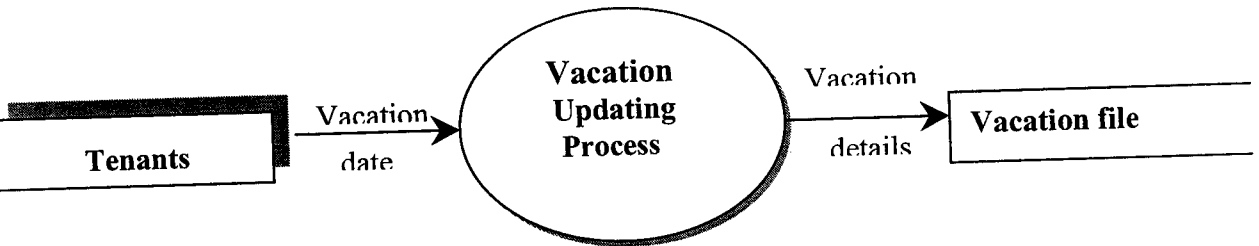
New Users



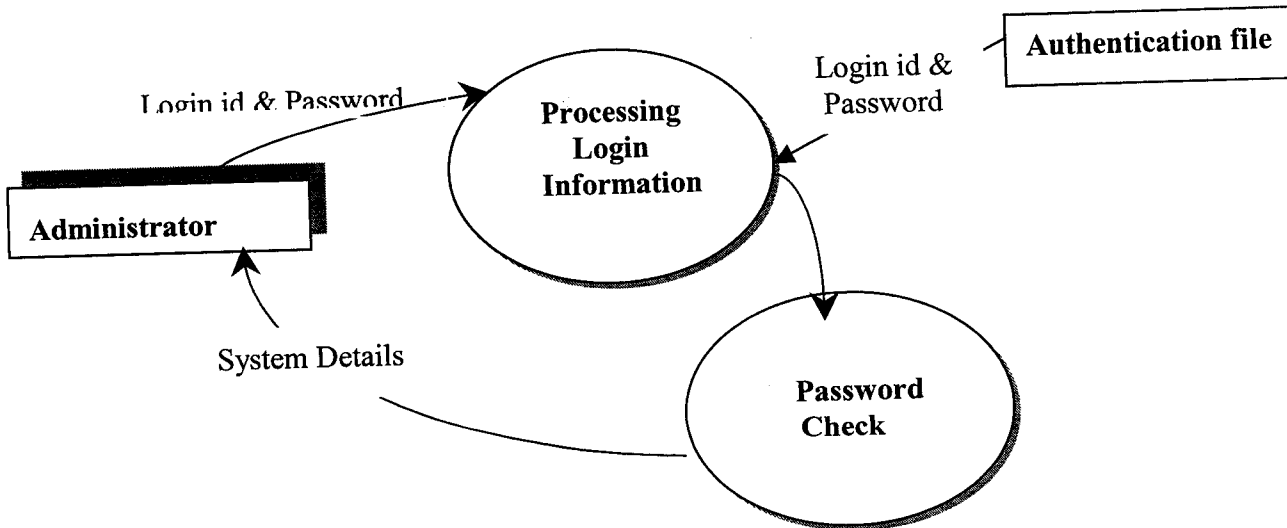
DFD for Tenant Searching & Booking



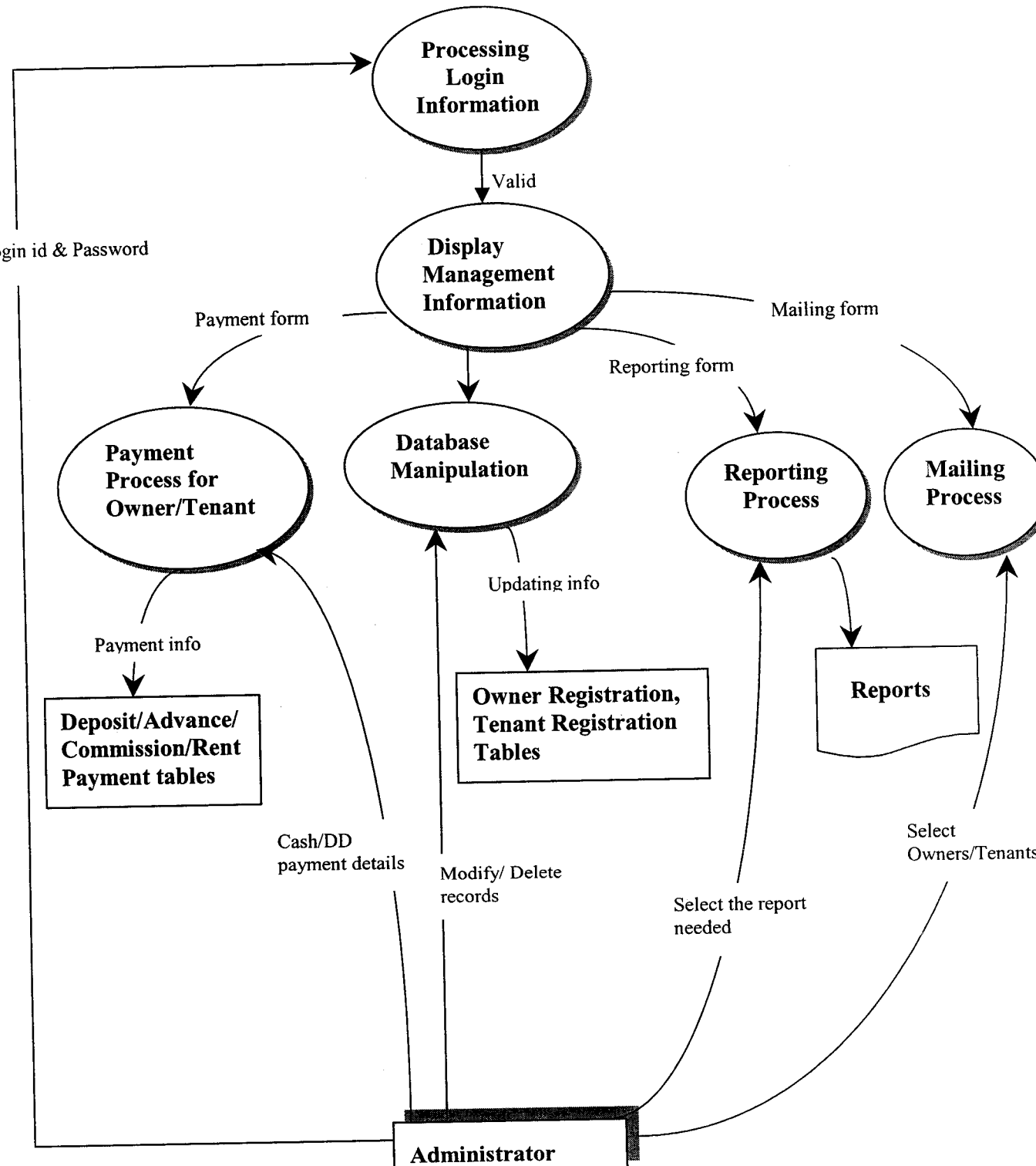
Tenant vacation



Login Information Processing



DFD for Administrator



5. SYSTEM IMPLEMENTATION & TESTING

5.1 SYSTEM IMPLEMENTATION

As a policy every product in the company ready for release undergoes a versioning and release management process. The product is versioned and then implemented in the client location. A complete set of operational documentation, user's manual and guidelines are supplied. Professionals exclusively give user training to a few in the client place from the company.

Implementation Procedures

The project undergoes a versioning and release management before it is delivered to the client. It is a process of identifying and keeping track of different versions and releases of the system. And the released product usually includes Configuration files defining how the release should be configured for particular installations. Data files needed for successful operations. An Installation Program, which is used to help install the system on the target hardware. Electronic and paper documentation describing the system. All these information are made available on a medium, which can be read and understood by the customer for the software.

The following factors are considered before implementation. Checking if all the components which make up the system been included, if the appropriate version of each required component been included, are the data objects included, etc... An installation program is created and the entire kit is delivered to the client.

Operational Documentation

Properly produced and maintained system documentation is a tremendous aid to maintenance engineers. The system documentation includes all of the documents describing the implementation of the system from the requirements specification to the final acceptance test plan.

A complete set of Operational Documentation was prepared for the client, which included the features of the system, the access rights allocated for various users and trouble shooting details. The special features of the system were highlighted. A step-by-step procedure was included in the documentation for data entry, report generation and saving reports in text, html or rich text format. The documentation is prepared keeping in mind users who have little or no knowledge of computers.

The operational documentation includes a document describing the overall architecture, a maintenance guide, a user manual for operations like data entry, report generations, trouble shooting and a list of error codes and their causes and solutions. The purpose of input controls and the validations for the same are explained diagrammatically. A clear picture of the system and its functionalities are thus provided.

System Maintenance

The process of changing a system after it has been delivered and is in use is called software maintenance. The changes may involve simple changes to correct coding errors, more extensive changes to correct design errors, or significant enhancements to accommodate new requirements. It is the process of changing the system to maintain its ability to survive.

Owing to scope creeps or new requirements in the future there could be possibilities for changes in the system in future. The system has very few external environmental dependencies, which will make it more adaptable to changes. The application domain is clearly defined which will help in making changes to a new domain.

The system has provisions for corrective maintenance, adaptive maintenance and perceptive maintenance. Corrective maintenance is concerned with fixing reported errors in the software. The expense of such correction depends on the error that is trapped. If the trapped error is coding error it is often cheap to fix it whereas design errors are expensive to fix up. Adaptive maintenance is concerned with changing the software to a new environment like a new configuration of hardware or operating system. In such kind of a change the new operating system for the client is to be any version of windows operating system to support the graphical user interfaces being used in the system. Perceptive maintenance involves implementing new functional requirements as a result of a business change or scope creep from the customer's side.

The company adopts version control through which an enhanced system will be given the next successive version and it is in the interest of the company to make the newer version compatible with the previous one so that there will be no need to bring about major changes in the existing database. Before a system is released a record of the parts of the software, which can be re-engineered later, are made note of. In case of a change request from the client an impact analysis is performed and if the need is essential the changes are incorporated and analyzed. The enhanced system is then versioned and released.

5.2 SYSTEM TESTING

Periodical tests were conducted during the design and implementation phases of development. Tests were conducted as per test plans, which were scheduled according to the company's policies. A detailed report on various tests conducted and the phase in which they were conducted is given below. A Bottom-up testing methodology was adopted to test the system developed. A bottom-up test strategy starts with the fundamental components and works upwards.

While conceiving the Architectural Design of the design phase in development decomposing of the entire project into modules, the relationship between them and the data they involve were thoroughly analyzed. In formulating the detail design during the design phase an analysis was conducted on the algorithm specification to implement functions, decision on data structures to represent data, and the decision of design techniques to be followed.

In the implementation phase *tests* were conducted according to the most widely used five stages testing process. The system tests involved Unit Testing, Module testing, Integration Testing.

Unit Testing

Unit testing was used to test individual units in the system and ensure that they operate correctly. Alternate logic analysis and screen validations were tested in this phase to ensure optimum efficiency in the system. The procedures and functions used and their association with data were tested.

Module Testing

Module testing was used to ensure that the dependable components in a module work in coordination with one another. Functional testing, performance testing and stress tests were conducted on modules independently to ensure robustness in the system developed. The various forms, their validations, relationships between forms, tables and the data flow between components in a module were analyzed and tested. The procedures and functions common to a module were also tested during module testing.

Integration Testing

Integration testing was carried out after integrating the modules into one workable unit. Tests were conducted to ensure that the system developed matches the requirements specified by the client and the external observations perceived during the analysis phase. Interactions between modules were keenly analyzed and tests conducted to ensure robustness in the integrated system. Tests were conducted using simulated data.

6.CONCLUSION

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

The application is tested with the user requirements and verified for the validity. The software requirements have been met. Needed documents are generated and adequate documentation has been provided for maintenance and further enhancements.

SCOPE FOR FUTURE DEVELOPMENT

7. Scope for Further Enhancement

The system is implemented keeping in mind the possible future enhancements and the modules are designed in such a way that enhancements are possible without any change in the basic structure of the system. The database design has provisions for enhancements.

Future enhancement of the proposed system

- ✓ The system at present has only the specifications of house/office/buildings. In future it would be enhanced to add pictures of the house/office/buildings interiors. This will help the users to search, select and make best options according to their needs.

- ✓ Now the Credit card payments are done through offsite payment processor. In future would be enhanced by payment terminal solutions.

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ABC ACCOMMODATION SERVICE

Functions

- [Owner Registration](#)
- [Tenant Searching & Booking](#)
- [Credit Card Payment](#)
- [Tenant Vacation Service](#)

Existing User

Login
Password

Done

The company is started in 2000 which has several branches all over the country and functioning well. This site maintains huge amount of data about house/building/Office that are available for rent around the country. The Owners who want to leave their house/building/office for rent may register the tolet information. The Tenants can search for house/building/office by giving their needs and reserve it.

OWNERS:

There are two category of Owners

1. Partial Ownership

The Company just introduce the tenant and get a commission from Owner & Tenant

2. Complete Ownership

The Company took full responsibility of collecting Advance, Rent amount per month and

Welcome



Company Norms..

Owners

Internet

Accomodation Management

Owners Registration Entry

Authentication

Registration Id

Password

New user please Register your Personal Information

Name

Address for Communication

Phone Number

Mail-Id

All rights Reserved, © 2002 by the Company

Toilet Information Registration

Date of Registration 4/23/2002

Type Office

Address 100 feet road, gandhipuram

City gandhipuram

Area coimbatore

Monthly Rent 20000

Advance Amount 100000

No of Rooms 4

Square feet 200 per room

Other Facility generator, near to bus stand

Category Partial

Category is Complete-->The Company take all responsibility of collecting advance amount,

Rent per month and Maintenance.

Category is Partial-->The company just introduce the Tenants.

submit Reset

Accomodation Management

Password Entry

Registration Id 34
Enter Password
Retype Password

Please note your registration id and Password for future reference..

All rights Reserved, © 2002 by the Company

Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://100.100.100.2/kct/pomns/project/search_gl.asp

Accomodation Management

Tenants Specific Search:

Type	Office	Number of Rooms	4
City	coimbatore	Area	gandhipurem
Month Rent	10000	-Between-	20000
Advance Amount	80000	-Between-	200000

http://100.100.100.2/kct/pnns/project/glo_view.asp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Discuss

Address http://100.100.100.2/kct/pnns/project/glo_view.asp Go

Accomodation Management

Toilet Availability:

For registration please click the address

Type	Address	Monthly Rent	Advance Amount	Rooms	Square Feet/Room	Other Facility
Office	7th street,100 feet road,gandhipuram,coimbatore	12000	100000	4	150	with generator
Office	ABC Accomodation company,coimbatore	10000	100000	4	150	with generator
Office	16th street,crosscut road,gandhipuram,coimbatore.	13000	100000	4	150	with generator
Office	7th street,crosscut road,gandhipuram,coimbatore	15000	120000	4	150	generator

Tenants Registration:

Personal Information

Name	Mohan
Address for Communication	49, ansari street, pollachi
Phone Number	04259-225913
Mail-Id	manman_78@yahoo.com
Monthly Income	15000.00

Booking Information

Type	Office
Address	7th street,100 feet road,gandhipuram,coimbatore
Monthly Rent	12000
Advance amount	100000
Booking Date	4/23/2002
Occupying Date	5/15/2002 (mm/dd/yyyy)

Requirement Registration

Personal Information	
Name	Belu
Address	122, anna nagar, kangayam
Phone Number	04258-446445
Mail ID	natarajejan@yahoo.com
Requirement Information	
Date of Registration	4/23/2002
Type	House
City	Chennai
Area	annanagar
Monthly Rent	10000
Advance Amount	100000
No of Rooms	4
Square feet	200 per room
Date Needed	5/10/2002 (mm/dd/yyyy)

http://100.100.100.2/kct/pnns/project/credit_entry.asp?refer=1 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://100.100.100.2/kct/pnns/project/credit_entry.asp?refer=1 Go

Enter Owner Registration Id

Enter Password

[Homepage](#)

Done

Internet

Owners Deposit- Payment

Personal Information	
Name	somu
Address	99,DB Road,R.S.Puram,coimbatore
Phone Number	0422-343434
Mail Id	soman@yahoo.com

Tolet Information						
Registration Count	Type	Address	Monthly Rent	Advance Amount	Rooms	Category
1	House	101,DB Road,R.S.Puram,coimbatore	8000	70000	6	Partial
2	House	102,DB Road,R.S.Puram,coimbatore	7000	60000	5	Partial
3	Office	105,DB Road,R.S.Puram,coimbatore	10000	100000	5	Complete
4	House	110,DB Road,R.S.Puram,coimbatore	8000	60000	5	Complete

For Both Category(Complete/Partial)--> Pay the Monthly Rent as Deposit,

After the payment your toilet information is visible to Tenants

Enter the Credit Card Details

Card Type	<input type="radio"/> Visa <input type="radio"/> Master Card <input type="radio"/> City Bank <input checked="" type="radio"/> American Express
Card Number	<input type="text"/>
Card Expires	<input type="text" value="1"/> Month <input type="text" value="2003"/> Year
Card Holder Name	<input type="text" value="ramu"/>
Registration Count	<input type="text" value="2"/>
Amount	<input type="text" value="7000.00"/>

[Homepage](#)

http://100.100.100.02/kct/pomns/project/payment.html - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://100.100.100.02/kct/pomns/project/payment.html

Administrative Operations

<u>Owner Deposit</u>	<u>Daily Routine</u>
<u>Tenant Advance</u>	<u>Database Manipulation</u>
<u>Tenant Rent</u>	<u>Mailing to Owners</u>
<u>Tenant Commission</u>	<u>Mailing to Tenants</u>
<u>Tenant Services</u>	<u>Reports</u>
	<u>Activate Toilet Info after Vacation</u>

[Homepage](#)

The Deposit Amount to be paid..

Name: somu

Address	Monthly Rent	Advance Amount
<u>101,DB Road,R.S.Puram,coimbatore</u>	8000	70000
<u>105,DB Road,R.S.Puram,coimbatore</u>	10000	100000
<u>110,DB Road,R.S.Puram,coimbatore</u>	8000	60000

Select the address do you want to pay..

http://100.100.100.02/kct/pomns/project/owner_pay_upd.asp - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://100.100.100.02/kct/pomns/project/owner_pay_upd.asp Go

Payment Information

Registration Id 18
Name somu
Address 101,DB Road,R.S.Puram,coimbatore
Date 4/23/2002
Amount 8000

Done

Internet

http://100.100.100.2/kct/porns/project/database_manip.html - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://100.100.100.2/kct/porns/project/database_manip.html Go

Database Manipulation By Administrator/Operator

[Owners Registration](#)

[Tenants Registration](#)

[Main](#)

Personal Information

Registration Id 20
 Name Vijay
 Password vijay
 Address 23,gandhinagar, P.S.park,Erode
 Phone Number: 0424-234233
 Mail-Id vijaykumar@rediff.com

Owner Toilet Information - Deletion

Click the address to delete the particular Toilet info

Type	Address	Registration Date	Monthly Rent	Advance Amount	No of Rooms	Category
Office	1st Floor,UFFIZI Building,Peelamedu,coimbatore	3/22/2002	15000	100000	5	Complete
Office	II nd Floor,UFFIZI Building,Peelamedu,coimbatore	3/22/2002	15000	100000	5	Complete
Office	underground floor,UFFIZI Building,peelamedu,coimbatore	3/22/2002	15000	100000	6	Complete



Sending a mail to Owners

Select the owner you want to send mail

Select Owner	E-Mail Address
<input type="checkbox"/> murugan	murugan@rediffmail.com
<input checked="" type="checkbox"/> siva	sts_siva@rediff.com
<input checked="" type="checkbox"/> bahu	bahu@yahoo.com
<input checked="" type="checkbox"/> suresh	ponsuresh@rediff.com
<input checked="" type="checkbox"/> jayaprakash	jppn@rediffmail.com
<input checked="" type="checkbox"/> saba	saba@rediff.com
<input type="checkbox"/> raj	raj@hotmail.com
<input checked="" type="checkbox"/> madhan	madhan@yahoo.com
<input checked="" type="checkbox"/> vijay	vijay@rediff.com
<input type="checkbox"/> krishnan	krishnan@hotmail.com
<input type="checkbox"/> Arul	arulram@rediffmail.com
<input type="checkbox"/> N.Moorthy	moorthy@hotmail.com
<input type="checkbox"/> R.Sankar	sankarkumar@yahoo.com
<input type="checkbox"/> N.Sambantham	sambatham@rediff.com
<input checked="" type="checkbox"/> somu	soman@yahoo.com

Send Mail to Owners

Each message will be personalized with a "Dear Owner:" line
Compose the body of the message you wish to send and press 'Send'

Subject: from accommodation company

Thanks for registration, please pay the deposit amount and activate
the toilet information

Back Send

Daily Process By Administrator/Operator

Removing the unpaid Owners info

Removing the unpaid Tenants info

Mailing to Tenants(Unpaid Rent)

Deleting the Tenants Booking

Due Date:4/24/2002

These are the Tenants yet to pay Advance/Commission

Select the Tenants you want to Delete

Select	Tenant Id	Booked Address	Booking Date
<input checked="" type="checkbox"/>	22	123,crosscut road,gandhipuram,coimbatore	4/18/2002
<input checked="" type="checkbox"/>	23	16th street,crosscut road,gandhipuram,coimbatore.	4/18/2002
<input checked="" type="checkbox"/>	24	7th street,crosscut road,gandhipuram,coimbatore	4/18/2002
<input checked="" type="checkbox"/>	25	456a,Avinashi road, peelamedu,coimbatore	4/18/2002
<input checked="" type="checkbox"/>	26	I st Floor,UFFIZI Building,Peelamedu,coimbatore	4/18/2002
<input checked="" type="checkbox"/>	27	underground floor,UFFIZI Building,peelamedu,coimbatore	4/18/2002

select all owners to delete

Delete

Owners Information	
<u>Complete Ownership</u>	<u>Partial Ownership</u>
Tenants Information	
<u>Complete Ownership Tenants</u>	<u>Partial Ownership Tenants</u>
Toilet Information	
<u>Inactive Toilet Information</u>	<u>Active Toilet Information</u>
<u>Reserved-Toilet</u>	<u>Alloted-Toilet</u>
Payment	
<u>Owners Deposit</u>	<u>Tenants Advance</u>
<u>Tenants Rent</u>	<u>Tenants Commision</u>
Others	
<u>Tenants Booking</u>	<u>Tenants Requirement</u>
<u>Tenants Vacation</u>	<u>Tenants Service</u>

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Complete Ownership Information-Report

Page No:2

Date :4/24/2002

Reg_id	Name	Address	Phone No	Mail Id
15	N.Moorthy	350,100 feet road, Tatabad,coimbatore	0422-465454	moorthy@hotmail.com
16	R.Sankar	25,Gowly Brown Road,R.S.Puram,coimbatore-2	0422-254354	sankarkumar@yahoo.com
18	somu	99,DB Road,R.S.Puram,coimbatore	0422-343434	soman@yahoo.com
19	M.Sanjay	23,NSR Road,saibaba colony,coimbatore-11	0422-432223	sanjay@rediff.com
20	Vijay	23,gandhinagar, P.S.park,Erode	0424-234233	vijaykumar@rediff.com

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Inactive Tolet Information - Report

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Date :4/24/2002

Reg_id	Reg_count	Type	Address	Monthly Rent	Advance	Category
5	1	Office	12th street, annasai, chennai	7000	70000	Partial
11	1	House	10th street, crosscut road, gandhipuram, coimbatore	10000	90000	Complete
11	2	Office	101, dbroad, rapuram, coimbatore	10000	90000	Partial
11	3	Building	12, annanagar, pollachi	6000	50000	Partial
14	2	House	no-10, captain palaniswamy Layout, thadakam road, coimbatore-2	6000	50000	Partial
15	1	Office	356, 100, feet Road, Tatabad, coimbatore-641021	12000	110000	Complete

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Owners Deposit Payment(Cash) - Report

Between 4/20/2002 and 4/24/2002

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Date :4/24/2002

Owner_id	Reg_count	Type	Address	Amount
18	1	House	101,DB Road,R.S.Puram,coimbatore	8000
2	1	Office	7th street,100 feet road,gandhipuram,coimbatore	12000
2	2	Building	32,dharamapuri road, salem-4	7000
3	1	Office	123,crosscut road,gandhipuram,coimbatore	10000
6	1	Office	23,firchy road, namakkal	5000

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Tenant Booking Information - Report

Between 4/21/2002 and 4/24/2002

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Date :4/24/2002

Tenant_id	Type	Address	Monthly Rent	Advance	Occupying Date
22	Office	123,crosscut road,gandhipuram,coimbatore	10000	100000	5/10/2002
23	Office	16th street,crosscut road,gandhipuram,coimbatore.	13000	100000	5/12/2002
24	Office	7th street,crosscut road,gandhipuram,coimbatore	15000	120000	5/15/2002
25	House	456a,Avinashi road, peelamedu,coimbatore	6000	5000	5/20/2002

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Alloted Tolet Information - Report

Between 4/22/2002 and 4/24/2002

Page No:1

Date :4/24/2002

Owner ID	Type	Address	Monthly Rent	Advance	Tenant ID
2	Office	7th street,100 feet road,gandhipuram,coimbatore	12000	100000	21
8	Office	16th street,crosscut road,gandhipuram,coimbatore.	13000	100000	23
10	Office	7th street,crosscut road,gandhipuram,coimbatore	15000	120000	24
20	Office	I st Floor,UFFIZI Building,Peelamedu,coimbatore	15000	100000	26

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