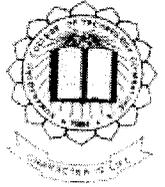# WEB DESIGNING AND MANAGING GREENLAND COMMUNICATION

PROJECT REPORT

Submitted By

J.PRIYA

Register No.: 0720300030

in partial fulfillment for the award of the degree

of

MASTER OF COMPUTER APPLICATIONS

in

COMPUTER APPLICATIONS

KUMARAGURU COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Coimbatore)

May, 2010

KUMARAGURU COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Coimbatore)

COIMBATORE – 641 006.

Department of Computer Applications

PROJECT WORK

MAY 2010

This is to certify that the project entitled

WEB DESIGNING AND MANAGING GREENLAND COMMUNICATION

is the bonafide record of project work done by

J.PRIYA

Register No: 0720300030

of MCA (Computer Applications) during the year 2009-2010.

_____

Project Guide

_____

Head of the Department

Submitted for the Project Viva-Voce examination held on 17·05·2010

_____

Internal Examiner

_____

External Examiner

DECLARATION

I affirm that the project work titled **WEB DESIGNING AND MANAGING GREENLAND COMMUNICATION** being submitted in partial fulfillment for the award of **MASTER OF COMPUTER APPLICATIONS** is the original work carried out by me. It has not formed the part of any other project work submitted for award of any degree or diploma, either in this or any other University.
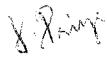
(Signature of the Candidate)

J.Priya

0720300030

I certify that the declaration made above by the candidate is true

Signature of the Guide,

P.Parameswari

Senior Lecturer

TO WHOMSOEVER IT MAY CONCERN   4-5-2010

This is to certify that **Ms.J.Priya (0720300030)** of MCA . Batch 2007-10 of **Kumaraguru ollege of Technology** has successfully completed her Project during December 2009 to April 2010.

The project was undertaken by her in **GreenLand Communication** entitled   "**Web Designing d Managing GreenLand Communication** "

The Project on evaluation fulfills all the stated criteria and the student's findings are her original ork. I hereby certify her work satisfactory to the best of my knowledge.

For GREEN LAND COMMUNICATION

C.Senthilkumar.

PROPRIETOR

ACKNOWLEDGEMENT

First and foremost I thank God for his goodwill and blessings showered on me throughout the project. The success of this project needs cooperation and encouragement from different quarters. Words are inadequate to express my profound and deep sense of gratitude to those who helped me in bringing out this project successfully.

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CONTENTS

ABSTRACT

This application will be a Managing Software for a local system of a GreenLand Communication. This system will be designed to maximize the performance of an employee by providing easy way to send mail and sms to the clients and maintaining their record, which would otherwise have to be performed manually. By these their work would be simple and they can maintain client account easily.

More specifically, this system is designed to allow an administrator to manage web directory, sub directory, plan, offer, clients and employee. The software will facilitate communication between client and marketing people Via E-Mail. Mail Manager can send mail / sms to client denoting deadlines of their period . The system also contains a relational database containing a list of client, category, employee, web directory, sub directory, discount, client maintenance.

The administrator has the privilege to change the setting of an employee. The backup of the client can be taken by the administrator which will retrieve in the format of excel. The SQL backup can also be taken by the administrator in the form of xml, which can also be restore back to the specific SQL Server.

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LIST OF FIGURES

CHAPTER 1

INTRODUCTION

1.1. ORGANIZATION PROFILE

The GreenLand Communication is the web designing and advertisement company. They are developing the website entitle www.agritv.net. This web site is ready to lend a hand to the farmer. It contains all the information related to agriculture. It includes land sales, land purchase, agri market, agri related video, agri product details, agriculture scientists and other details related to agriculture. The company which producing product related to agriculture can advertise in this website. The charge is made according to the advertisement plan they have chosen.

This company started in 2008 and has more than 500 clients. The main aim of this company is to provide information about agriculture. In these website agri jobs is also available. Those who need job can apply in this website. There is an agri market those who need to sales their product on online can register.

The video about the company and their products has to be given during register. It will be hosted separately. All other agricultural details will come under this directory. There are more than 80 web directories. In each web directory, there is a sub directory where company can advertise in that also. The web directory and sub directory are separated according to agricultural product. Mostly all the product related to the agriculture are displayed. Not only the product but also other information about agriculture is displayed. The entire user can view this information. They can join as the member so that they can give article about any agriculture product. It also displayed.

1.2. OBJECTIVE

- The main aim of these project is to develop managing software for GreenLand Communication by automate the process.
- In this project, a separate environment is developed for each employee in such a way that they can easily send mail & sms to the clients.
- The company has more than 1000 clients, it helps to manage them.
- To check the status of the clients.
- To maintain incoming call, outgoing call and visitors details.
- To maintain client details in a secure manner.

CHAPTER 2

SYSTEM ANALYSIS

2.1 EXISTING SYSTEM

- It is a manual work.
- They keep separate record for client, employee, plan, and directory.
- They send mail by opening the mail account and typing clients email id one by one.
- Sms are sent by mobile.
- Keeping status of the client is very risky process.
- It is tedious to check whether the client is paid or not.

DISADVANTAGES OF THE EXISTING SYSTEM

The problems which are perceived by the users of the existing system are

- Less efficiency and accuracy due to lot of manual entries
- More time delay for writing and storing all the details
- More expenses for preparing and maintenance since lot of paper work is involved
- Manual search has to be done to track the expiry dates of the clients which results in increased labor
- Lack of security.
- Manual collection of information and preparation of reports is quite tedious

2.2 PROPOSED SYSTEM

- Different environment for different employee
    - Eg:-Mail Manager has its environment depending upon their job(sending mail/sms)

- Mail can be send by clicking the checkbox.
- Status of the clients is easily seen by displaying it with different colors.
- Sms can send easily through the internet by clicking checkbox.
- Client details are easily stored and retrieved according to name/plan.
- Number of person visited, number of call made and received are easily maintained.

ADVANTAGES OF THE PROPOSED SYSTEM

- Maintenance of all the details in one place
- Tracking client and their contact details are easy.
- Set up email and sms notifications to renew clients before expiry

2.3 FEASIBILITY STUDY

The main purpose of feasibility study is to determine the problem is worth solving. Feasibility study is high-level capsule version of the extra system analysis and design process. The success of a system also lies in the amount of feasibility study done on it. There are three main feasibility tests performed. They are

2.3.1 Economical Feasibility

This is the most important aspect that has to be critically evaluated. The costs and benefits have to be estimated. Considering the cost factor, the system will be economically feasible.

2.3.2 Operational Feasibility

During feasibility analysis, operational feasibility study is necessary as it ensures that the project developed is successfully implemented in the organization. According to software engineering principles, operational feasibility or in other words usability should be high. In this project, a thorough analysis is done and found that the system is operational.

2.3.3 Technical Feasibility

Technical feasibility takes care of the technical issues that are to be tested to see whether the system is feasible. Technical feasibility analysis makes a comparison between the levels of technology available and the technology that is needed for the project. The level of technology is determined by factors such as the software tools available, the machine environment, platform etc since, the resource required for the development of the project is already available, and this project is technically feasible.

CHAPTER 3

SOFTWARE SPECIFICATION

3.1 HARDWARE SPECIFICATIONS

RAM   128 MB

Hard Disk Size   40 GB and Above

Processor (with speed)   Intel   Pentium   III   (800
                                 MHz) and upwards

Display Device   SVGA Color

Keyboard   Standard Keyboard

Mouse   Standard Mouse

3.2 SOFTWARE SPECIFICATIONS

Operating System   Windows 2000 & XP

Front End   ASP.NET

Back End   Microsoft SQL Server 2005

Programming Interface   C#

Application Server   Internet Information Server

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CHAPTER 4
SOFTWARE DESCRIPTION

4.1 FRONT END

IIS   provides Access to Content

All web servers can deliver HTML files, but they differ widely in how they treat other types of content. Most servers let you add and modify Multipurpose Internet Mail Extensions (MIME) Types, but integrate directly into the windows registry. That means IIS natively understands how to treat most common windows file format, such as text (TXT) files, application initialization (INI) files, executable (EXE) files and many others.

IIS provides an Interface for COM

You can control many parts of IIS using COM>IIS exposes many of the server's configuration setting via the IIS Admin objects. These objects are accessible from ASP and other languages. That means you can adjust server configuration and create virtual directories and webs programmatically.

.NET FRAMEWORK

The .NET Framework is many things, but it is worthwhile listing its most important aspects. In short, the .NET Framework is:

A Platform designed from the start for writing Internet-aware and Internet-enabled applications that embrace and adopt open standards such as XML, HTTP, and SOAP.

A Platform that provides a number of very rich and powerful application development technologies, such as Windows Forms, used to build classic GUI applications, and of course ASP.NET, used to build web applications.

A Platform with an extensive class library that provides extensive support for date access (relational and XML), a director services, message queuing, and much more.

A platform that has a base class library that contains hundreds of classes for performing common tasks such as file manipulation, registry access, security, threading, and searching of text using regular expressions.

A Platform with an independent code execution and management environment called the Common Language Runtime(CLR), which ensures code is safe to run, and provides an abstract layer on top of the operating system, meaning that elements of the .NET framework can run on many operating systems and devices.

ASP.NET

ASP.Net is part of the whole. NET framework, built on top of the Common Language Runtime (also known as the CLR) - a rich and flexible architecture, designed not just to cater for the needs of developers today, but to allow for the long future we have ahead of us. What you might not realize is that, unlike previous updates of ASP, ASP.Net is very much more than just an upgrade of existing technology – it is the gateway to a whole new era of web development.

ASP.Net is a feature at the following web server releases

- Microsoft IIS 5.0 on WINDOWS 2000 Server
- Microsoft IIS 5.1 on WINDOWS XP

ASP.Net has been designed to try and maintain syntax and run-time compatibility with existing ASP pages wherever possible. The motivation behind this is to allow existing ASP Pages to be initially migrated ASP.Net by simply renaming the file to have an extension of **.aspx**.

For the most part this goal has been achieved, although there are typically some basic code changes that have to be made, since VBScript is no longer supported, and the VB language itself has changed.

Some of the key goals of ASP.Net were to

- Remove the dependency on script engines, enabling pages to be type safe and compiled.
- Reduce the amount of code required to develop web applications.
- Make ASP.NET well factored, allowing customers to add in their own custom functionality, and extend/ replace built-in ASP.NET functionality.
- Make ASP.NET a logical evolution of ASP, where existing ASP investment and therefore code can be reused with little, if any, change.
- Realize that bugs are a fact of life, as ASP.NET should be as fault tolerant as possible.

Benefits of ASP.Net

The .NET Framework includes a new data access technology named ADO.Net, an evolutionary improvement to ADO. Though the new data access technology is evolutionary, the classes that make up ADO.Net bear little resemblance to the ADO objects with which you might be familiar. Some fairly significant changes must be made to existing ADO applications to convert them to ADO.Net. The changes don't have to be made immediately to existing ADO applications to run under ASP.Net, however.

ADO will function under ASP.Net. However, the work necessary to convert ADO applications to ADO.Net is worthwhile. For disconnected applications, ADO.NET should offer performance advantages over ADO disconnected record sets. ADO requires that transmitting and receiving components be COM objects. ADO.Net transmits data in a standard XML-format file so that COM marshaling or data type conversions are not required.

ASP.Net has several advantages over ASP.

The following are some of the benefits of ASP.Net:

- Make code cleaner.
- Improve deployment, scalability, and reliability.

- Provide better support for different browsers and devices.
- Enable a new breed of web applications.

4.2 BACK END

MS SQL Server 2005

SQL Server 2005 Express Edition is a scaled down, free edition of SQL Server, which includes the core database engine. While there are no limitations on the number of databases or users supported, it is limited to using one processor, 1GB memory and 4GB database files. The entire database is stored in a single .mdf file.

Features such as Common Language Runtime (CLR) integration, new data types such as VARCHAR (MAX) and XML, user-defined types, and user-defined aggregates are supported. SQL Server works very efficiently on Microsoft Windows Servers by processing queries in parallel (using multiple native threads within a single process to handle user requests) and minimizing additional memory requirements when more users are added.

Using Microsoft SQL Server, we can do a dynamic backup of the database while it's in use. Consequently, we do not have to force the users to exit the database to back up data unlike MS Access. This means the database can be running up to 24 hours a day. seven days a week. Unauthorized users can't get to the database file directly because they must access the server first. Thus security is provided.

In case of system failure (such as an operating system crash or power outage), Microsoft SQL Server has an automatic recovery mechanism that recovers a database to the last state of consistency. SQL Server reduces network traffic by processing database queries on the server before sending results to the client.

SQL Server Management Studio

SQL Server Management Studio is a GUI tool included with SQL Server 2005 and later for configuring, managing and administering all components within Microsoft SQL Server. The tool includes both script editors and graphical tools that work with objects and features of the server. SQL Server Management Studio replaces Enterprise Manager as the primary management interface for Microsoft SQL Server since SQL Server 2005.

A central feature of SQL Server Management Studio is the Object Explorer, which allows the user to browse, select, and act upon any of the objects within the server. It can be used to visually observe and analyze query plans and optimize the database performance among others. SQL Server Management Studio can also be used to create a new database, alter any existing database schema by adding or modifying tables and indexes, or analyze performance.
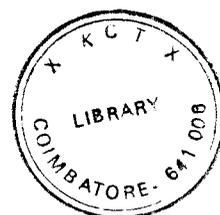
CHAPTER 5

PROJECT DESCRIPTION

5.1 OVERVIEW OF THE PROJECT

This website is developed to advertise about so many companies. This website contains details about the agriculture product and the company details. This website is development mainly for the farmers. The advertisements are made on the payment. This application also manages the client details and gives employee an easy way to maintain client details. It offers client management.

Managing this website will be done in intranet (within the company).The company is having many department.. The environment is developed in such a way that employee can easily send mail and sms to the client.

Generally, the management will sign support clients and their advertisement. If the period of the advertisement for the company is finish, then employee will send mail/sms to the particular clients. The status of the employee will be displayed according to that they can send mail/sms. Payment can be made according to the advertisement plan. For the new client, they provide the demo period for some days. The administrator has the privilege to change the setting for an employee. In the absence of one employee he can give they privilege to other employee.

This application is a user friendly tool for maintaining the details of client, directory and the advertisement plan. Alerts are provided to the administrators before client advertisement plan expire. It is intended to be used by the administrator and the employee of various departments to manage the clients of the organization. It is also useful for the employees because it provides easy access with in the client, they can easily search particular client according to the plan and easily view they status of the payment. The visitor details, the incoming call, and outgoing call are maintained easily. There is a teledirectory where all the clients phone number and important phone number are stored and easily viewed according to the alphabetically order.

The administrator can take backup of a client in excel format. There is also an SQL backup which converts all the data into xml file. Using these data can be restoring in other server or to any other place.

5.2 MODULE DESCRIPTION

These contain various modules

5.2.1 Client module:-

These modules maintain client details. The client can register by filling the application. First they give details about the company such as address, phone number, email id and the website. After that they choose the directory (web directory ad sub directory) where they want to display the advertisement and about the product. They will choose the advertisement plan according to their need.

5.2.2 Administrator module:-

This module manages all the details about web directory, sub directory, plan, employee and the client. The administrator set the privilege for the employee and appoint new employee. They will work out plans, discount and demo period. The overall control of the employee can be set from here.

5.2.3 Employee module:-

These modules manage the information according to the employee. In this module client status are maintained by the employee. They can also send mail, sms to the client. All the client information is maintained. The incoming call, outgoing call and the visitor details are maintained here. Telephone directory is maintained by them to store important phone number. The client account is also maintained by them. According to the status, they can send mail/SMS to the client.

5.3 DATABASE DESIGN

Table 5.3.1: Client Details

FieldName	Constraint	DataType	Description
Client_id	Primary key	Numeric(10,0)	Client id
Com_name	Not null	Varchar(50)	Company name
Person	Not null	Varchar(20)	Person name
Address	Not null	Varchar(60)	Address of company
City	Not null	Varchar(15)	City
Country	Not null	Varchar(15)	Country
Pincode	Null	Numeric(10)	Pincode
Teleno	Null	Numeric(15)	Telephone no
Mobileno	Null	Numeric(10)	Mobile no
Fax	Null	Numeric(15)	Fax
Email	Null	Varchar(20)	Email id
Website	Null	Varchar(20)	Website name
Nature	Null	Varchar(20)	Nature of the business
Dateofjoin	Not null	Datetime	Date of joining
rating	null	Varchar(10)	Rating for the company

Table 5.3.2: Employee Details

FieldName	Constraint	DataType	Description
Empid	Primary key	Numeric(10,0)	Employee id
Empname	Not null	Varchar(50)	Name of the person
Address	Not null	Varchar(50)	Address of the employee
Mobileno	Not null	Numeric(10,0)	Mobile number
Qualification	Not null	Varchar(15)	Qualification
Experience	Not null	Numeric(2,0)	Experience of the employee
Departmentid	Null	Numeric(10)	Department id
Photo	Null	Image	Image of the employee

Table 5.3.3: Web Directory Listing:-

FieldName	Constraint	DataType	Description
Webid	Primary Key	Numeric(5)	Web directory id
Webname	Not null	Varchar(20)	Web directory name

Table 5.3.4: Sub Directory Lisiting:-

FieldName	Constraint	DataType	Description
Subid	Primary Key	Numeric(5)	sub directory id
Webid	Foreign Key	Numeric(5)	Web directory id
Subname	Not null	Varchar(20)	Sub directory name

Table 5.3.5: Product Listing:-

FieldName	Constraint	DataType	Description
Productid	Primary Key	Numeric(5)	Product id
productname	Not null	Varchar(20)	Product name
Subid	Foreign key	Numeric(5)	Sub directory id
Clientid	Foreign key	Numeric(10)	Client id

Table 5.3.6: Category Listing:-

FieldName	Constraint	DataType	Description
planid	Primary key	varchar(5)	Plan id
planname	Not null	varchar(100)	Plan Name
duration	Not null	numeric(5, 0)	Duration of plan
period	Not null	varchar(10)	Year/month/Days
amount	Not null	numeric(10, 2)	Amount for the plan
description	Null	text	Description of plan

Table 5.3.7: Client Account:-

FieldName	Constraint	DataType	Description
Accountid	Primary key	numeric(10, 0)	Account id
Clientid	Foreign Key	varchar(50)	Client id
Dateofrenewal	Not null	datetime	Date of renewal

Duration	Not null	numeric(10, 0)	Duration of client
Period	Not null	varchar(10)	Year/months, days
planid	Foreign Key	varchar(5)	Plan id
paid	Not Null	numeric(10, 2)	Amount paid

Table 5.3.8: Client Paid:-

FieldName	Constraint	DataType	Description
accountid	Primary key	numeric(10, 0)	Account id
clientid	Foreign Key	varchar(50)	Client id
dateofrenewal	Not null	datetime	Date of renewal
duration	Not null	numeric(10, 0)	Duration of client
period	Not null	varchar(10)	Year/months,days
planid	Foreign Key	varchar(5)	Plan id
paid	Not Null	numeric(10, 2)	Amount paid

Table 5.3.9: Client payment:-

FieldName	Constraint	DataType	Description
payid	Primary key	numeric(10, 0)	Account id
clientid	Foreign Key	varchar(50)	Client id
mode	Not null	varchar(20)	Cheque/dd/cash
chequeno	null	varchar(20)	Cheque/dd no
bankname	null	varchar(30)	Bank Name

branchname	null	varchar(30)	Branch Name
dateofjoin	Not Null	datetime	Date of Payment
duration	Not null	numeric(10, 0)	Duration of client
period	Not null	varchar(10)	Year/months,days
planid	Foreign key	varchar(5)	Plan id
amount	Not null	numeric(10, 2)	Amount paid

Table 5.3.10: Demo Client :-

FieldName	Constraint	DataType	Description
demoid	Primary key	numeric(10, 0)	Demo client id
clientid	Foreign Key	varchar(50)	Client id
dateofjoin	Not null	datetime	Date of joining
lastdate	Not null	datetime	Last Date to renewal
planid	Foreign Key	varchar(5)	Plan id

Table 5.3.11: Department:-

FieldName	Constraint	DataType	Description
departmentid	Primary Key	numeric(10, 0)	Department id
departmentname	Not Null	varchar(20)	Department Name

Table 5.3.12: Description:-

FieldName	Constraint	DataType	Description
Id	Primary key	numeric(10, 0)	Id
description	Not null	varchar(100)	Purpose of visit/call

Table 5.3.13: Discount:-

FieldName	Constraint	DataType	Description
Discountid	Primary key	numeric(10, 0)	Discount ID
planid	Foreign Key	varchar(5)	Plan id
duration	Not Null	numeric(5, 0)	Duration of discount
period	Not Null	varchar(10)	Year/Month/Days
discount	Not Null	numeric(5, 2)	Discount percentage

Table 5.3.14: Incoming call:-

FieldName	Constraint	DataType	Description
incomeid	Primary key	numeric(10, 0)	Incoming call
name	Not null	varchar(50)	Person name
company	Not null	varchar(50)	Company Name
mode	Not null	varchar(50)	Mode of telephone/mobile/fax
number	Not null	numeric(18, 0)	Number
address	Not null	varchar(100)	Address
did	Null	numeric(10, 0)	Descriptionid
dateofcall	Not Null	datetime	Date and time of call

Table 5.3.15: Outgoing Call:-

FieldName	Constraint	DataType	Description
outgoid	Primary key	numeric(10, 0)	Outgoing call
name	Not null	varchar(50)	Person name
mode	Not null	varchar(50)	Mode of telephone/mobile/fax
number	Not null	numeric(18, 0)	Number
dateofcall	Not null	datetime	Date and time of call
staff	Not null	varchar(50)	Address
did	Null	numeric(10, 0)	Descriptionid
company	Null	varchar(50)	Company Name

Table 5.3.16: Login:-

FieldName	Constraint	DataType	Description
Loginname	Primary Key	varchar(20)	Login Name
loginpassword	Not null	varchar(20)	Login Password
departmentid	Not null	numeric(10, 0)	Department id
empid	Foreign key	numeric(10, 0)	Employee id

Table 5.3.17: Person Details:-

FieldName	Constraint	DataType	Description
personid	Primary key	numeric(10, 0)	Person id
personname	Not null	varchar(50)	Person name
comname	Not null	varchar(50)	Company Name
address	Not null	varchar(100)	Address
number	Not null	numeric(18, 0)	Number
mail	null	varchar(50)	Email Id
did	Null	numeric(10, 0)	Descriptionid
dateofcall	NotNull	datetime	Date and time of call

Table 5.3.18: Privileges:-

FieldName	Constraint	DataType	Description
Pid	Primary key	numeric(10, 0)	Privilege id
empid	Foreign Key	numeric(10, 0)	Employee id
departmentid	Foreign Key	numeric(10, 0)	Department id

Table 5.3.19: Telephone Directory:-

FieldName	Constraint	DataType	Description
Teleid	Primary key	numeric(10, 0)	Tele id
personname	Not null	varchar(50)	Person Name
comname	Null	varchar(50)	Company Name

address	Not null	varchar(100)	Address
mobile	Null	numeric(18, 0)	Mobile number
phone	null	numeric(18, 0)	Phone number
fax	Null	numeric(18, 0)	Fax
emailid	Null	varchar(50)	Email ID

5.4 USE CASE DIAGRAM

Use case diagrams overview the usage requirements for a system. They are useful for presentations to management and/or project stakeholders, but for actual development you will find that use cases provide significantly more value because they describe "the meat" of the actual requirements.

A use case describes a sequence of actions that provide something of measurable value to an actor and is drawn as a horizontal ellipse.

An actor is a person, organization, or external system that plays a role in one or more interactions with your system. Actors are drawn as stick figures.

5.4.1 USE CASE SPECIFICATION: ADMIN

The requirements are represented using the use case diagram.
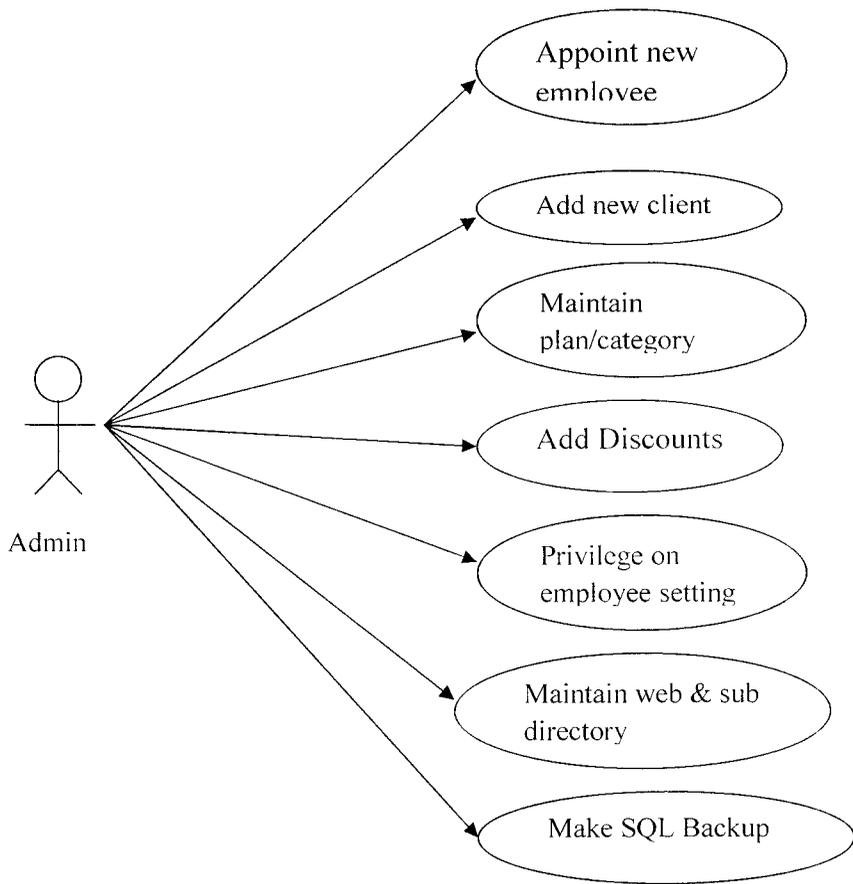
Figure 5.4.1 Admin Use Case Diagram

Brief Description:

The Admin manages clients, employee, web and sub directory, and discounts in the system.

5.4.2 USE CASE SPECIFICATION: CLIENT
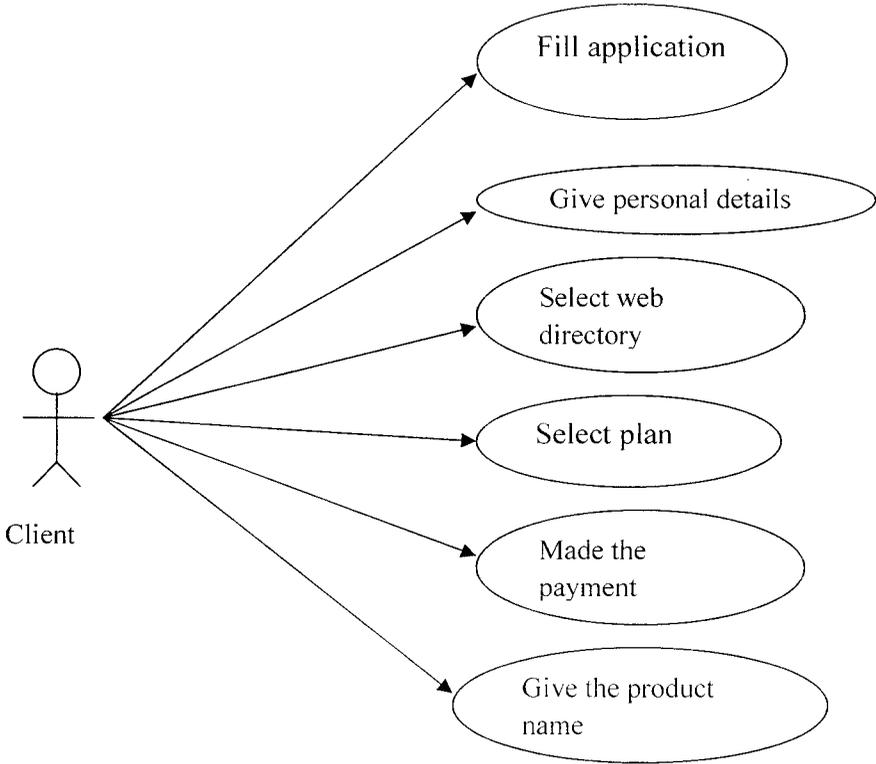
Figure 5.4.2: Client use case Diagram

Brief Description

This use case allows the client to enter personal details, web directory, sub directory, product name, and plan and made the payment.

5.4.3   USE CASE SPECIFICATION: EMPLOYEE
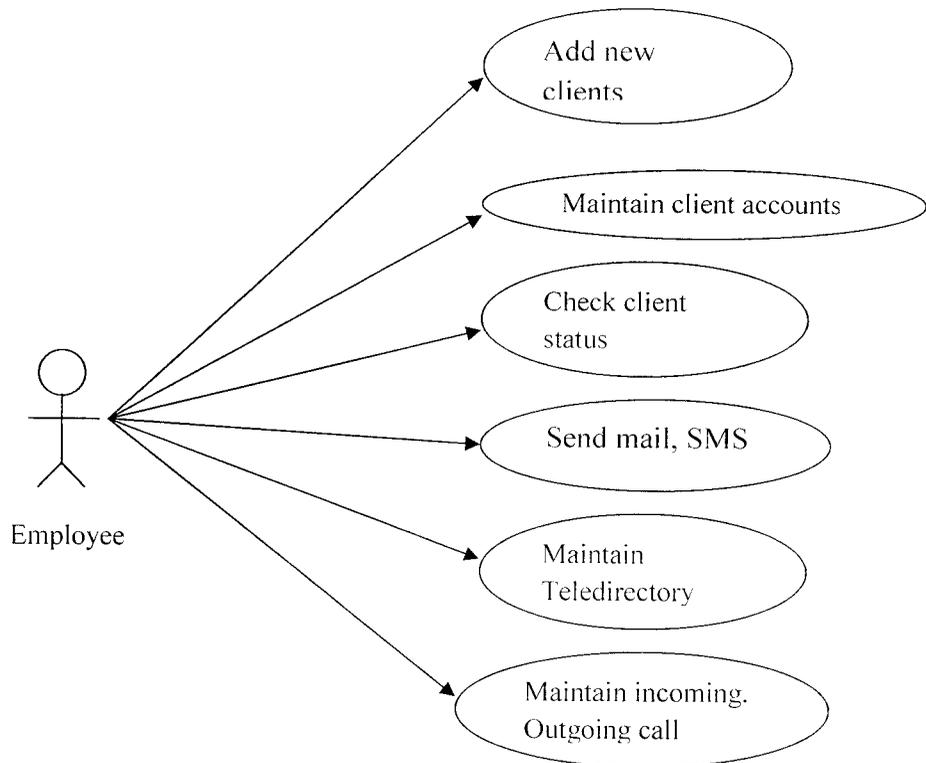
Figure 5.4.3. Employee Use Case Diagram

Brief Description

This use case allows Administrator to raise a request. After the management's approval, the purchase order is raised. He also ensures that all ordered products have arrived during their delivery.

CHAPTER 6

SYSTEM TESTING

6.1 OBJECTIVE OF TESTING

The objective of testing is to prove that there are no errors in the software. This is extremely difficult since developer cannot prove to be hundred percent accurate. Therefore the most useful and practical approach is with the understanding that testing is the process of executing a program with explicit intention of finding errors and check for the basic flow of the process.

6.2 TYPES OF TESTING

6.2.1 SYSTEM TESTING

Testing is a set of activities that can be planned in advance and conducted systematically. A number of testing strategies have been proposed.

- Testing begins at the component level and works outward towards the integration of the entire computer based system.
- The developer of the software conducts testing. For larger products an independent test group may be used.
- Testing and debugging are different activities but debugging may be accommodated in any testing strategy.

6.2.2 SOFTWARE TESTING TECHNIQUES

The test case design methods applied are

- White Box Testing
- Black Box Testing

6.2.2.1 WHITE BOX TESTING

Using this testing method it was assured that all the independent paths were exercised at least once. All the logical decisions on their true and false side were executed. All loops were executed at their boundaries.

6.2.2.2 BLACK BOX TESTING

Using this testing technique, incorrect and missing functions were identified and corrected, incorrect information, interfacing errors, performance errors, initialization errors and termination errors were also found using this technique.

6.2.3 SOFTWARE TESTING STRATEGIES

A strategy for the software testing integrates software test case design techniques into well planned series of steps that result in the successful construction of software. Any testing strategy must incorporate Test Planning, Test Case Design, Resultant Data Collection and Evaluation. The different levels of testing are:

6.2.3.1 UNIT TESTING

This kind of testing is to verify the smallest unit of the software module. This is also known as "Module Testing". This test is carried out during the programming stage. This test ensures the expected output from each of the module. Exceptions have been handled and appropriate error messages have been given in each module so as to avoid abnormal termination of the program. Table 6.1 shows a sample of test cases for unit testing.

Test Case

Table 6.1: Test Case for Contract Details

S.No.	Test Case Name	Test Case Description	Expected Result	Actual Result	Test Script Status
1	Client Identification	When the Client fill the application and click finish button, Client ID should be generated which must be unique	Client ID should be auto generated. Accepted entry	Client ID is auto generated. Accepted entry	Pass
2	Client Selection Identification	From the Client combo box, a client will be selected	The selected client name will be displayed on the on the label. Accepted entry	Selected client is displayed. Accepted entry	Pass
3	Client Identification	From the client text box, a client id is typed	If client id not exist error message should be displayed	Error message is displayed	Pass
4	Web directory selection	Web directory is not selected from the combo box.	Error message should be displayed	Error message is displayed	Pass
5	Duration	Duration text box empty	Error message should be displayed.	Error message is displayed.	Pass

6	Mail Sending	If the mail is sent to the particular client.	Message box should be displayed.	Message box is displayed	Pass
7	Mail Sending	Mail is not sent to the particular client.	Error message with client id should displayed	Error message is displayed	Pass
8	Mobile number	Mobile number is less than 10 number	Error message should be displayed	Error message is displayed	Pass

6.2.3.2 INTEGRATION TESTING

This kind of testing is a systematic testing for constructing tests to uncover errors associated within the interface. The objective is to take unit tested modules and build a program structure. All the modules are combined and tested as a whole. The system underwent a series of Integration tests that recorded smooth transmission of data from one module to the other. The bottom up approach was applied. In this project the developed system is tested after integrating various modules together, and the detected errors were corrected.

6.2.3.3 VALIDATION TESTING

Validation testing is carried out to verify whether the software functions works in a manner that is expected by the customer. So alpha Testing was done to ensure validity. Table6.2 shows a sample of test cases for integration and validation testing.

Test Case

Table 6.2: Test Case for Purchase Management

S.No.	Test Case Name	Test Case Description	Expected Result	Actual Result	Test Script Status
1	Client ID	Valid Client ID is selected from the combo box provided	Details such as Client name, company name , address and product name should be retrieved from the database and displayed on the corresponding fields	Details are retrieved from the database and are displayed on the corresponding fields	Pass
2	Duration	A Valid number is given as input	Accepted entry	Accepted entry	Pass
3	Duration	A set of characters are given as input	Error message should be displayed	Error message is displayed	Pass
4	Duration	A set of special characters are given as input such as 4%'5*4	Error message should be displayed	Error message is displayed	Pass
5	Duration	Null value is given as input	Error message should be displayed	Error message is displayed	Pass
6	Status	Client Payment	The status should be	The status is	Pass

			displayed in figure.	displayed.	
7	Employee Photo	Employee photo must be given.	Image should be displayed and store in database.	Image is displayed and store in database.	Pass
8	Mobile number	A set of characters are given as input	Error message should be displayed	Error message is displayed	Pass
9	Email id	Email is not in correct format	Error message should be displayed	Error message is displayed	Pass

CHAPTER 7
SYSTEM IMPLEMENTATION

7.1 SYSTEM IMPLEMENTATION

Implementation is putting a planned system into action. Implementation refers to the final process of moving the solution from the development status to the production status. Depending on your project, this process is often called deployment, go-live, rollout or installation. There is a phase in the software life cycle where the actual software is implemented. The result of this phase consists of source code, together with documentation to make the code more readable. The stage of systems development in which hardware and software are acquired developed and installed the system is tested and documented, people are trained to operate and use the system, and an organization converts to the use of a newly developed system.

7.2 MAINTENANCE

The objectives of this maintenance work are to make sure that the system gets into work all time without any bug. Provision must be made for environmental changes which may affect the computer or software system. This is called the maintenance of the system. Nowadays there is the rapid change in the software world. Due to this rapid change, the system should be capable of adapting these changes. In this project, processes can be added without affecting other parts of the system.

CHAPTER 8

CONCLUSION & FUTURE ENHANCEMENT

8.1 CONCLUSION

"Web designing and Managing GreenLand Communication" simplifies complicated manual tasks. It increases the efficiency and the response time, thus makes all the users happy. The main feature set of this system are

- Can easily keep track of client and their contact details
- Keep track of their payment status.
- Maintain web directory , sub directory , plan and discounts easily
- Email notifications to remind clients if payment date expiry
- Mail and SMS can be sent by simply clicking the check box
- The incoming call, outgoing call and visitor details are maintained easily.

All the implications concerned with this project are solved. The fruitful results of this system are faster access of data, shorter processing times, increased accuracy. requires less space to store and higher quality of service

8.2 FUTURE ENCHANCEMENT

"Web designing and Managing GreenLand Communication" will greatly reduce the manual work in the organization. It helps to create a paperless office. Though the system has been developed to the complete satisfaction of the user, enhancements are always possible. The system is designed in such a way that new features can be added without much difficulty. In future, the system can be modified to collect payment through credit card and online payment.

The system is developed in such a way that if any modification and enhancements are needed in future, it can be done at ease, without disturbing the proper working of the system. The system can be changed easily depending on organizational policy constraints.

According to the needs arising in the long run time, project can be modified like a discussion room where the employee can discuss among themselves. Thus employees can rectify their own problems by obtaining their solution from the discussion which will save time.

CHAPTER 9
APPENDIX

9.1 SCREEN SHOTS

Figure A 1.1: Login Form
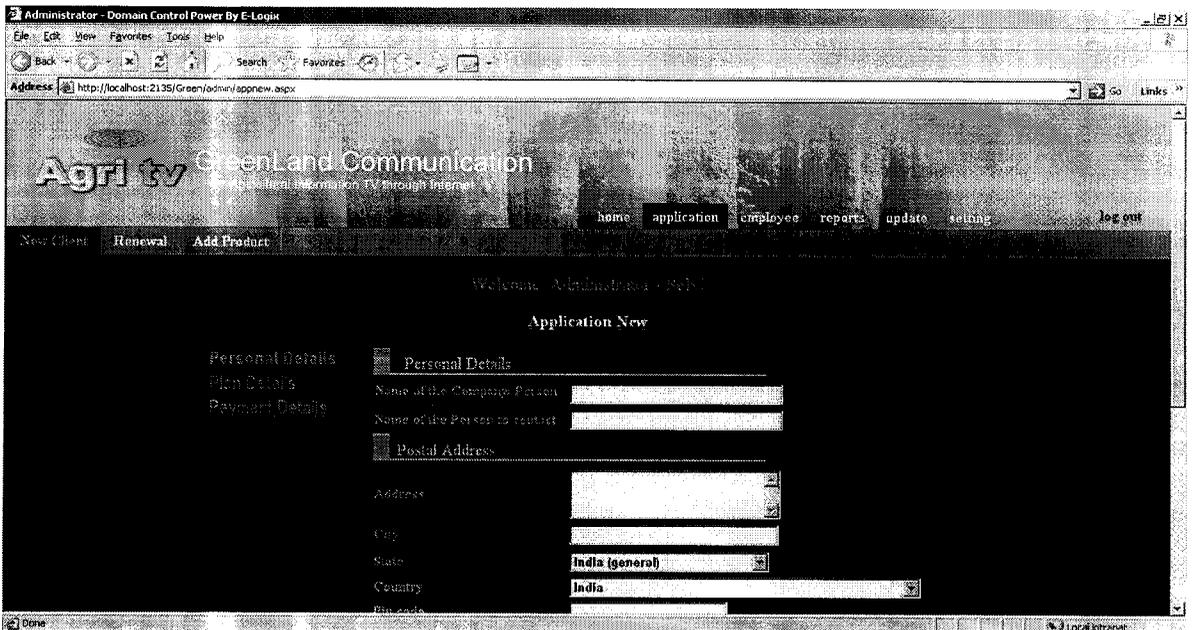
Figure A 1.2: New Client Application Form
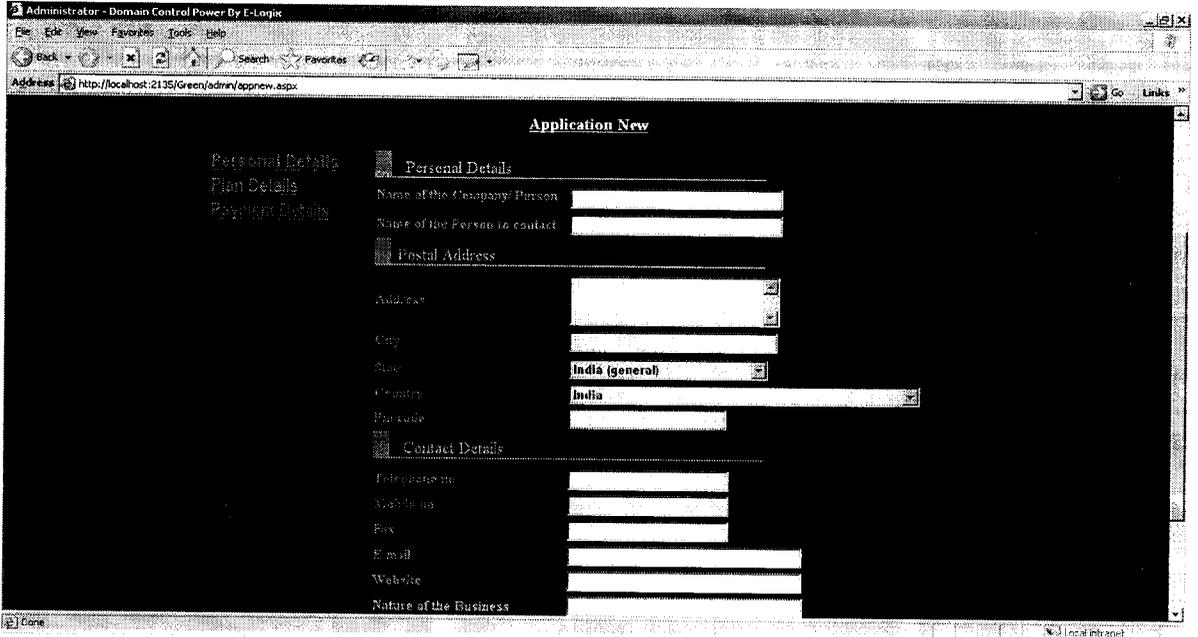
Figure A 1.3: Application Form
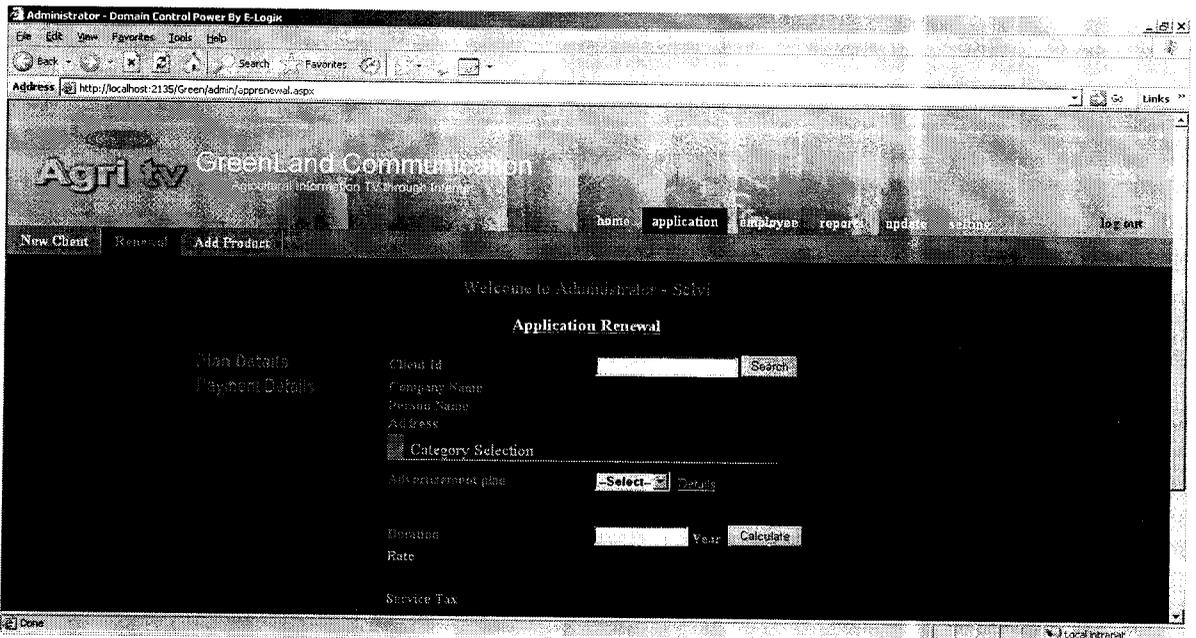
Figure A 1.4: Application Renewal Form
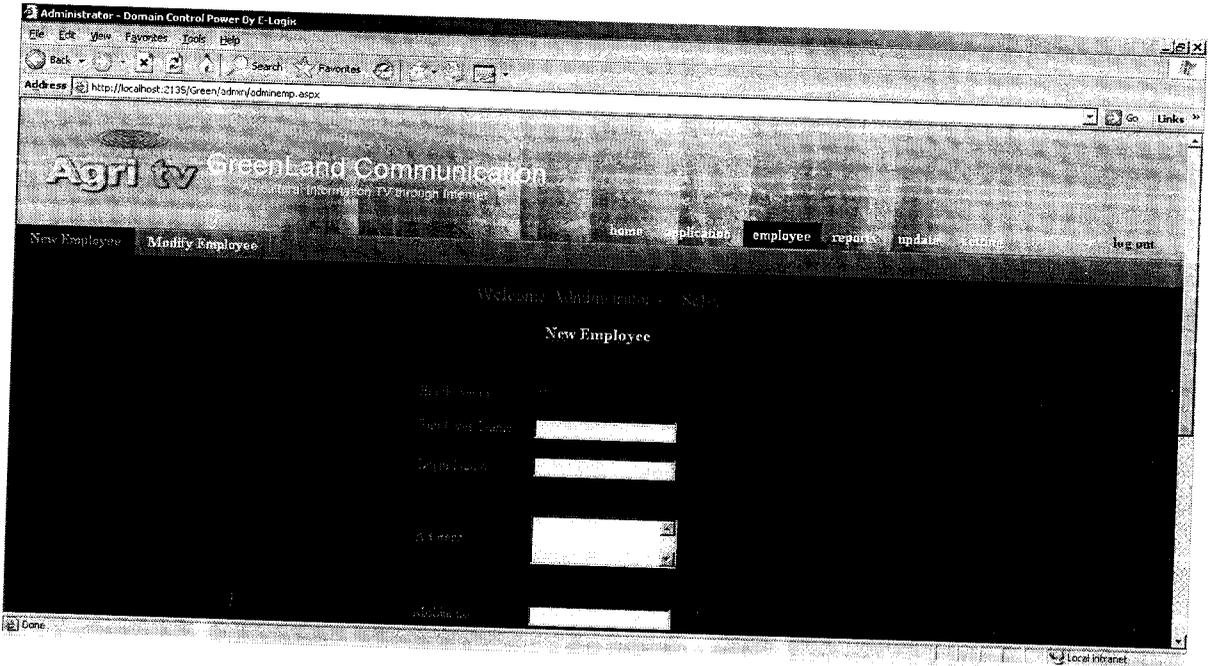
Figure A 1.5: New Employee Form
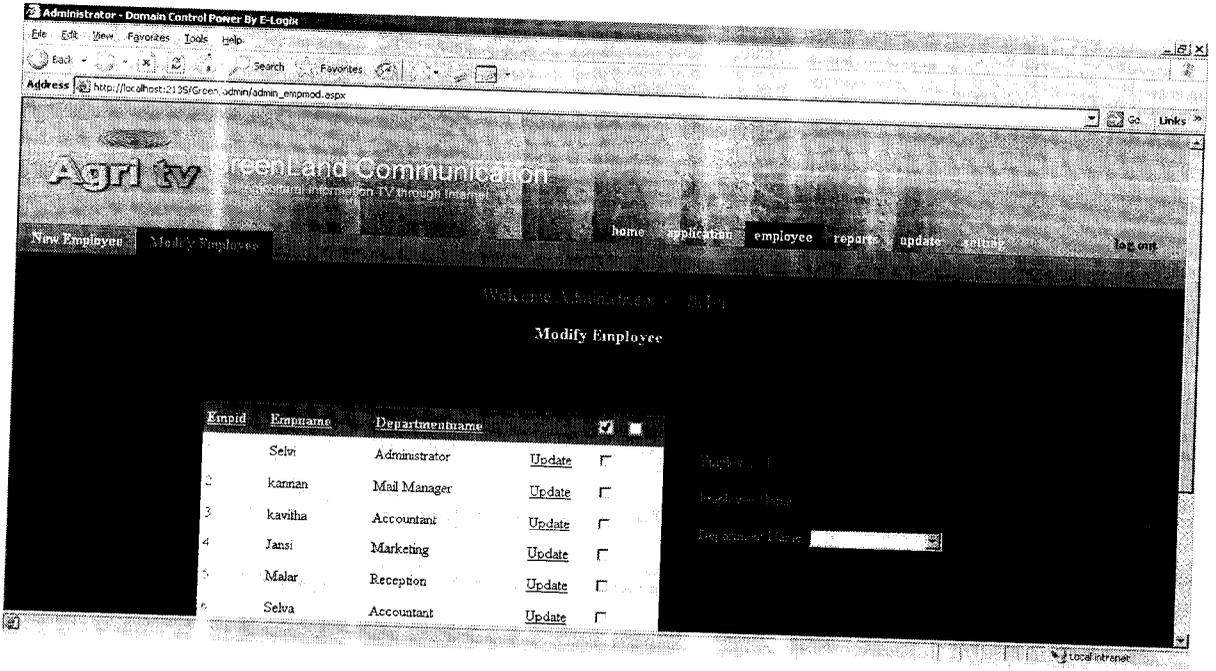
Figure A 1.6: Modify Employee Form

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Figure A1.7: Client Simple Report

Figure A 1.8: Client Detailed Reports
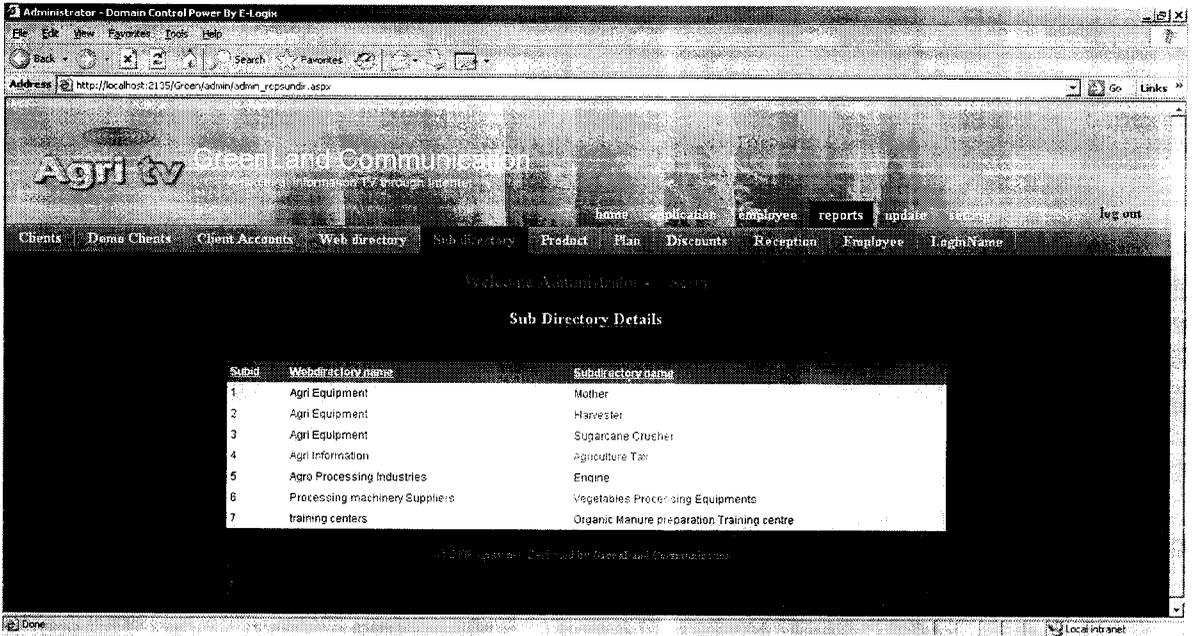
Figure A 1.9: Sub Directory Report Form
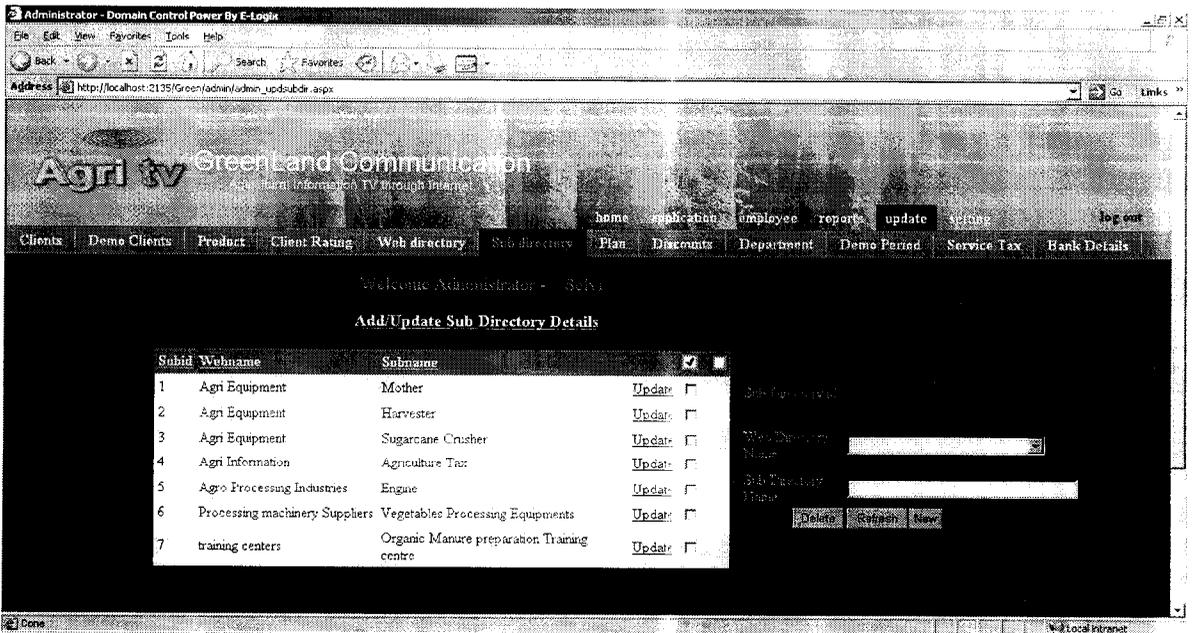
Figure A1.10: Sub Directory Update Form
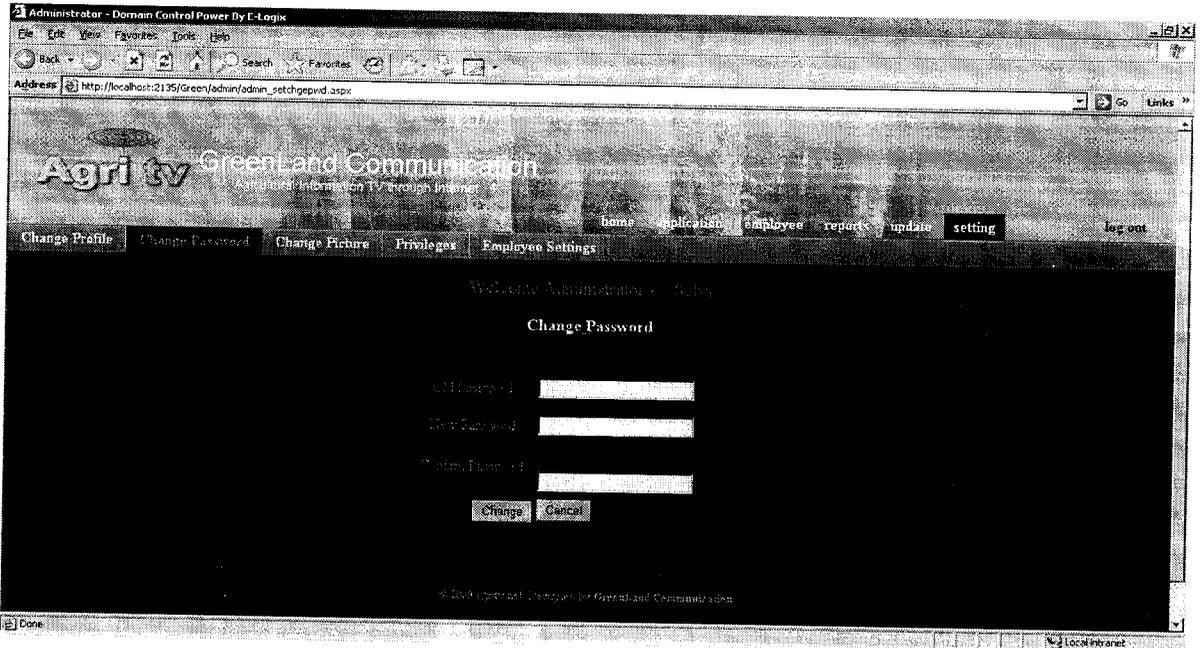
Figure A 1.11: Change Password
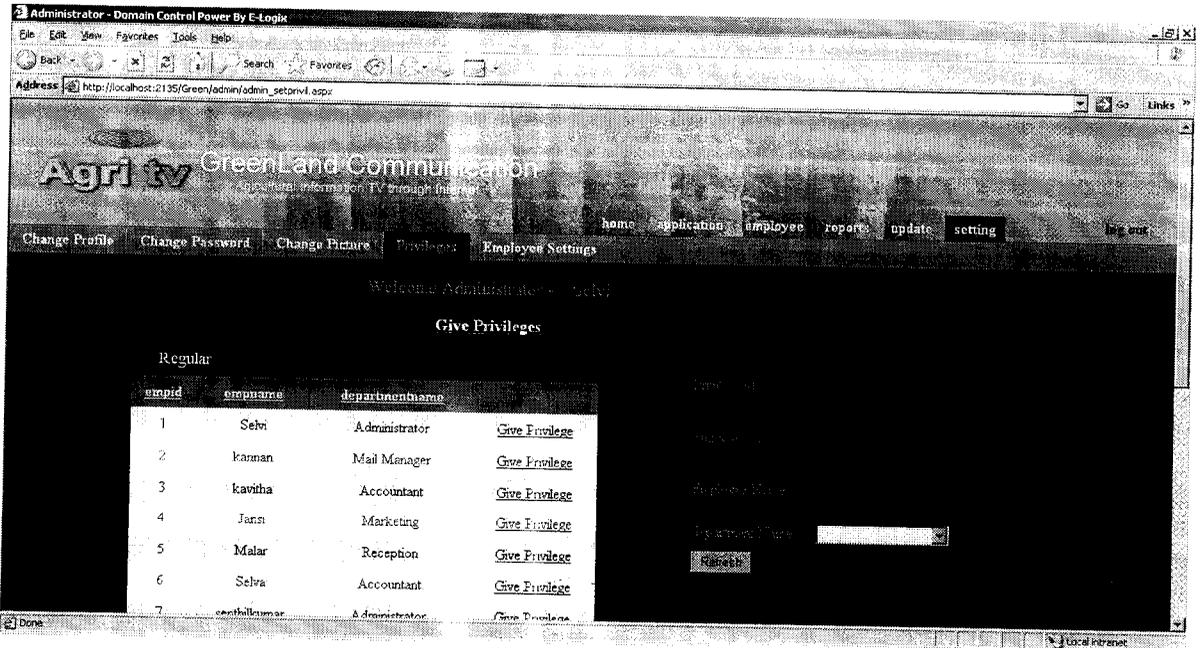
Figure A 1.12-A: Employee privilege form

Figure A 1.12-B: Employee privilege form

Figure A 1.13: Mail Manager Client Application Form
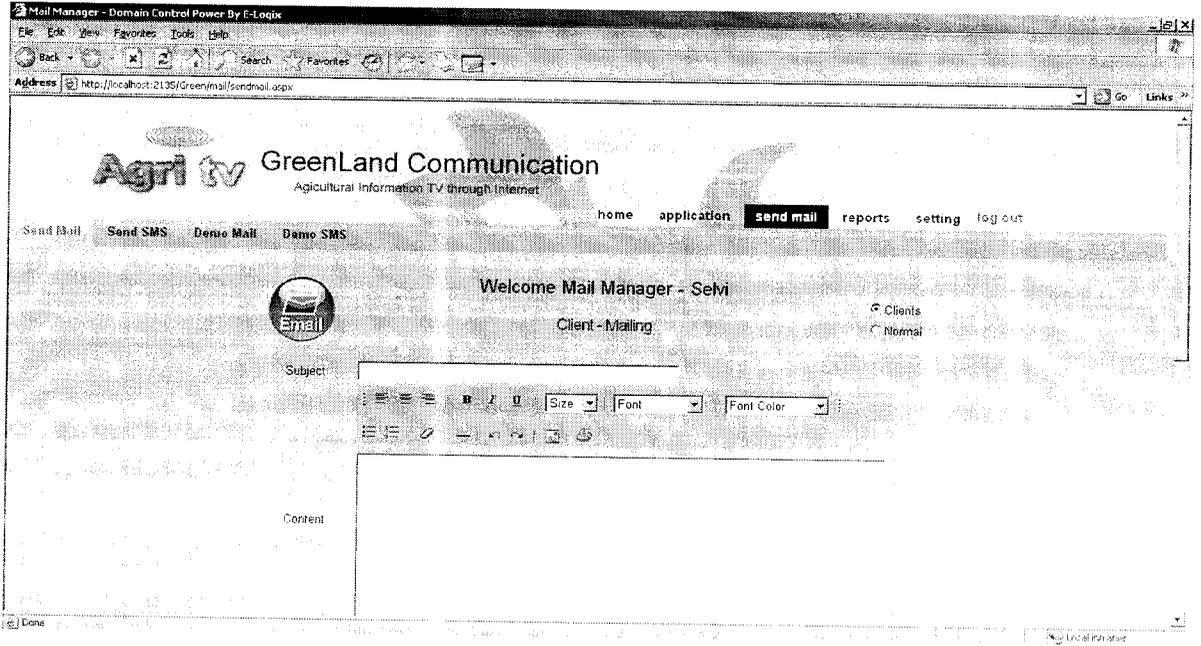
Figure A 1.14: Mail Sending Form
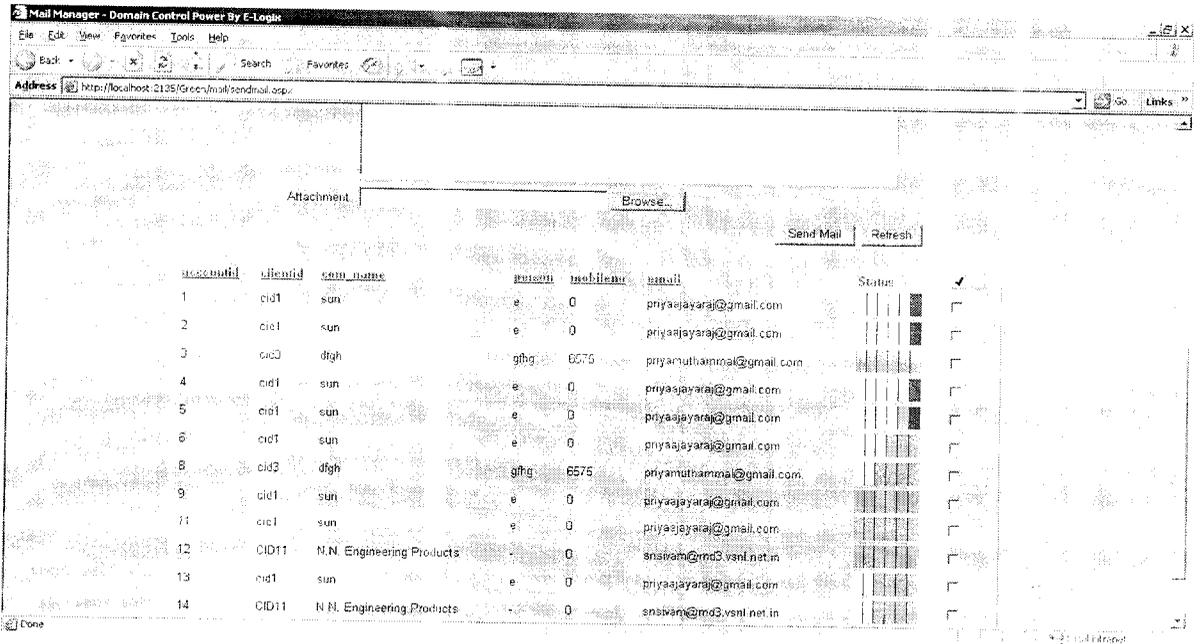
Figure A 1.15: Mail Sending – Client Status
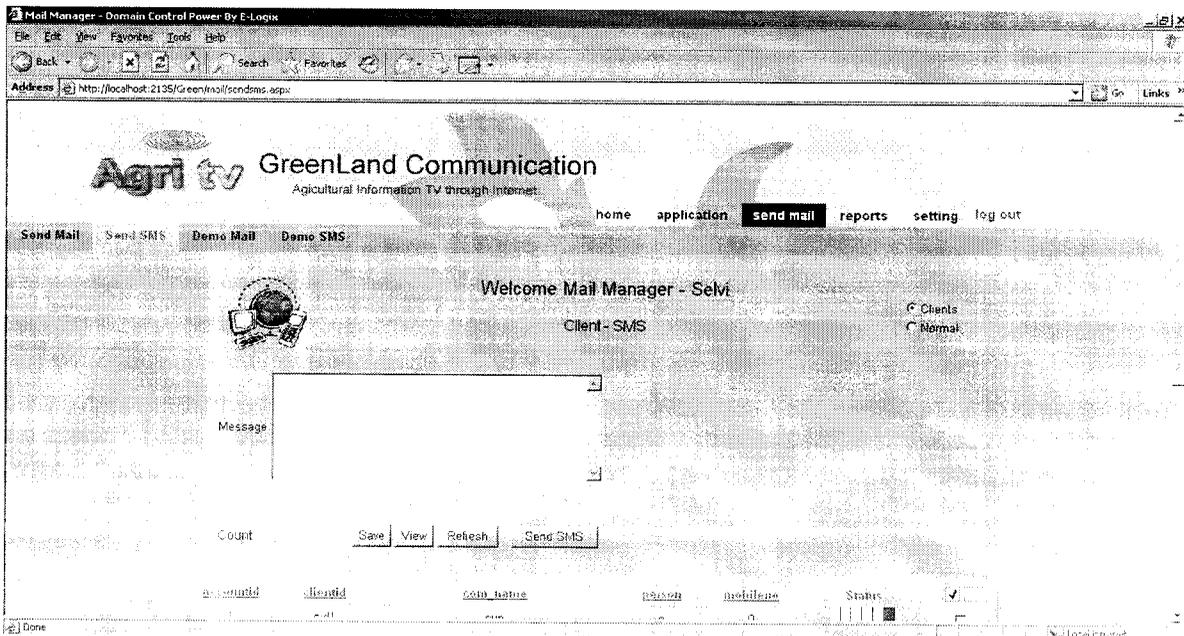
Figure A 1.16: SMS Sending
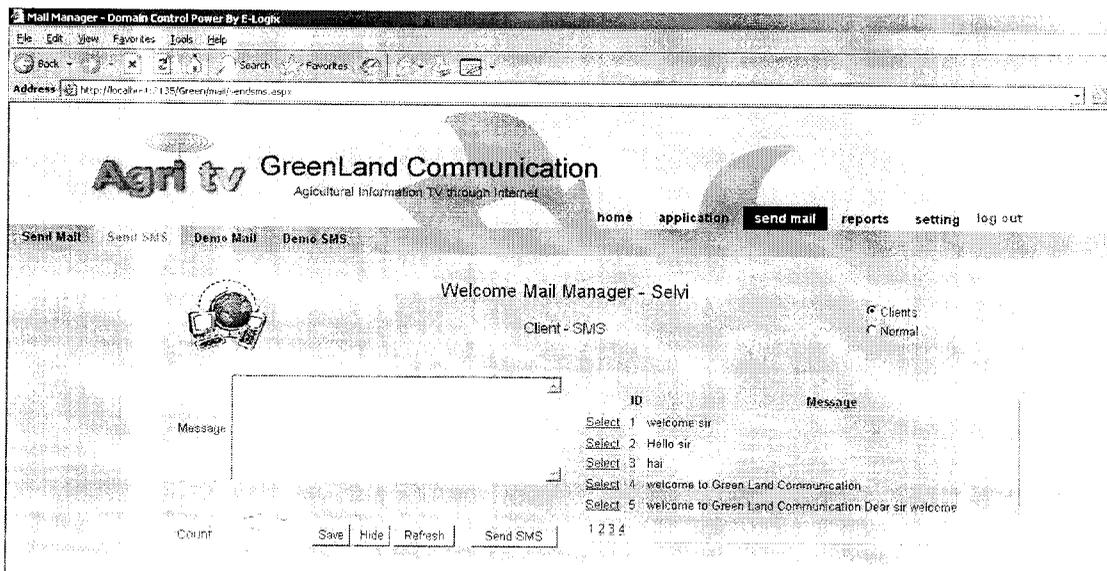
Figure A 1.17: SMS Sending - Pre define message
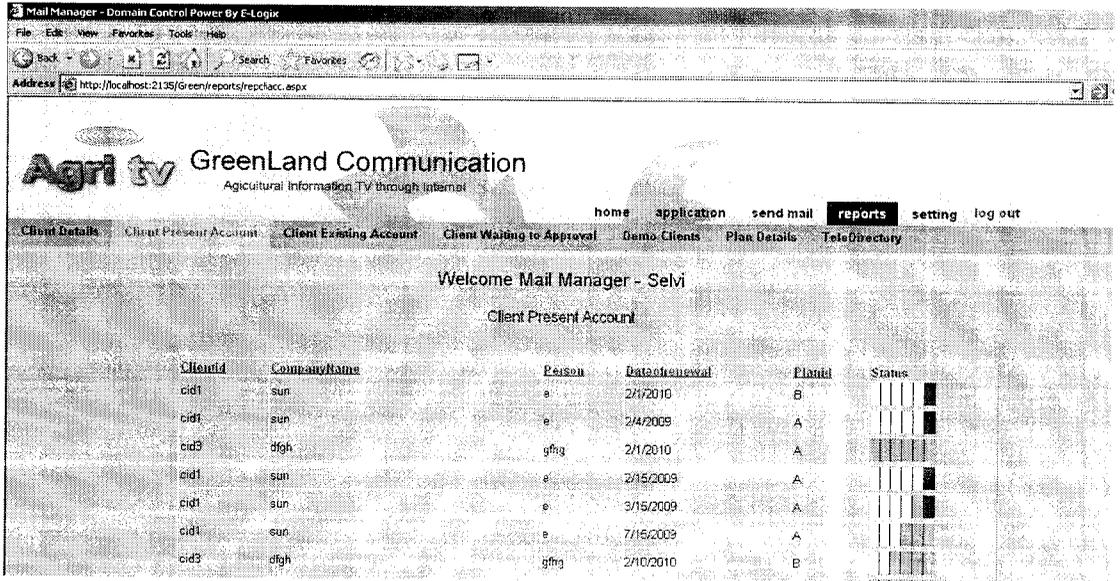
Figure A 1.18: Client Reports
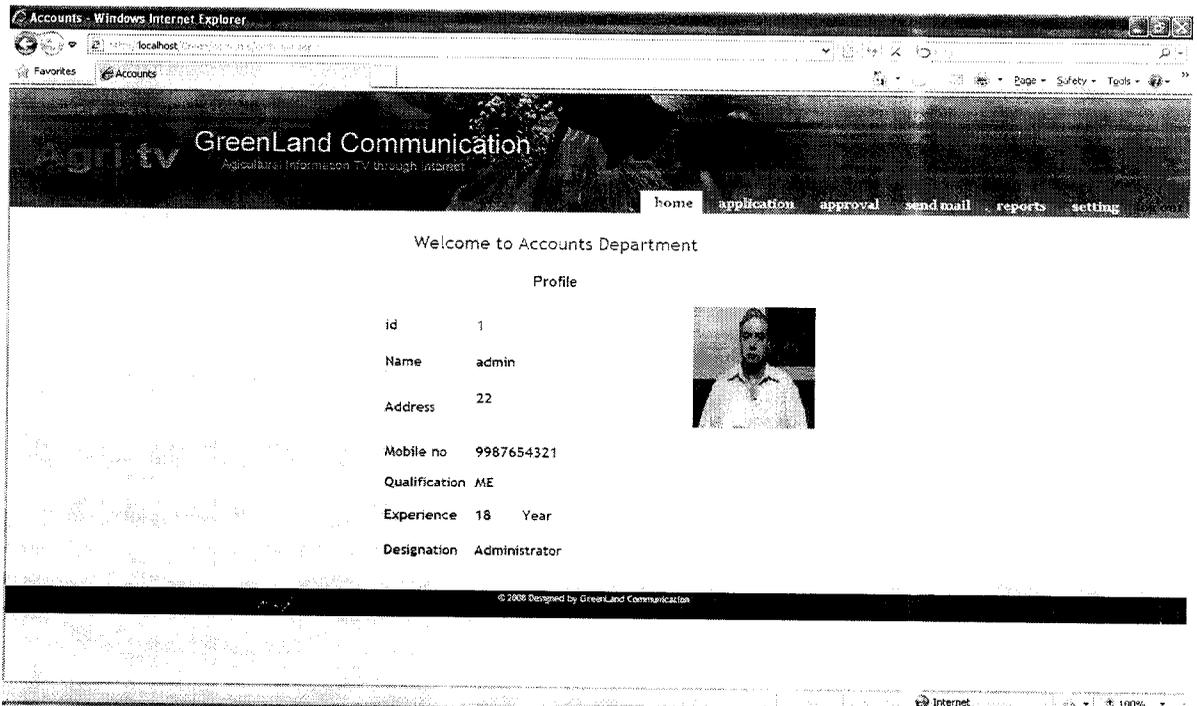
Figure A 1.19: Account Home
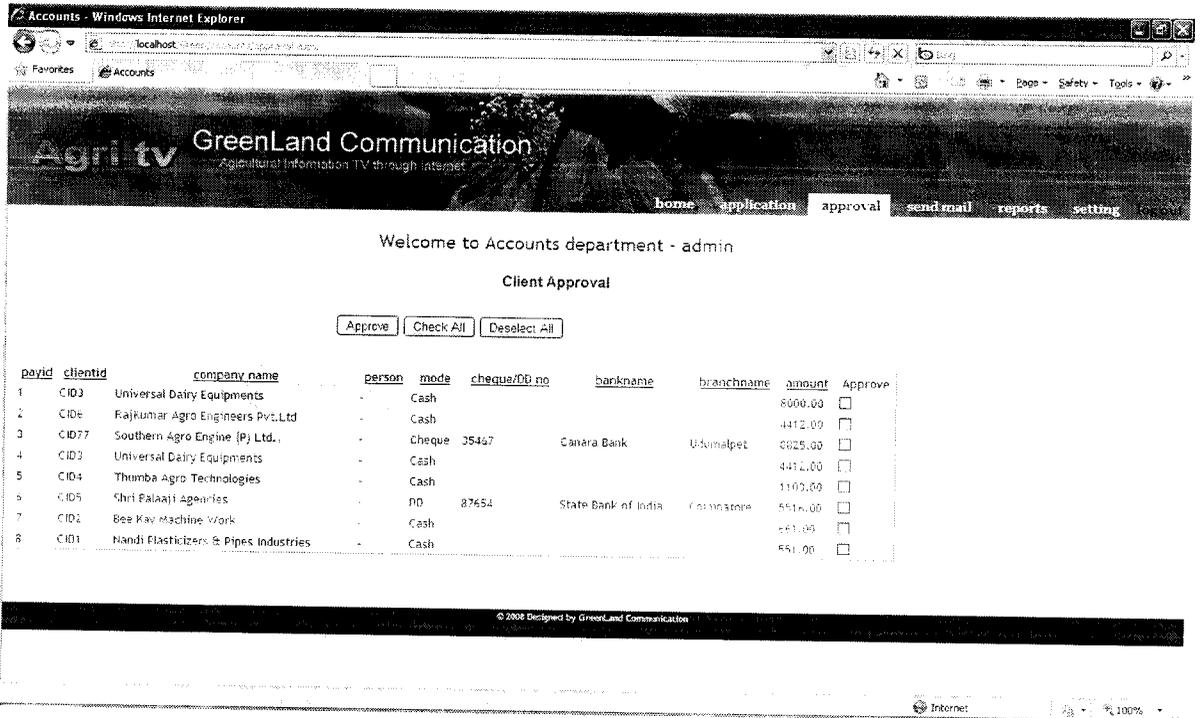
Figure A 1.20: Approval
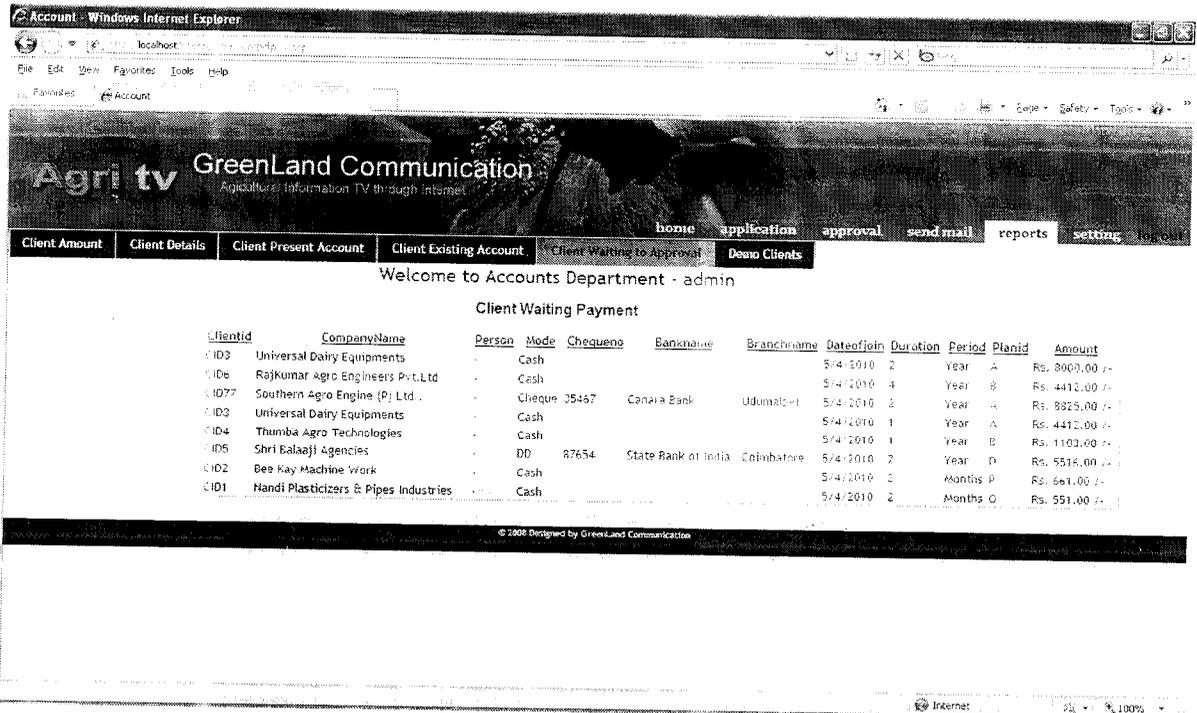
Figure A 1.21: Reports – Client waiting to approval
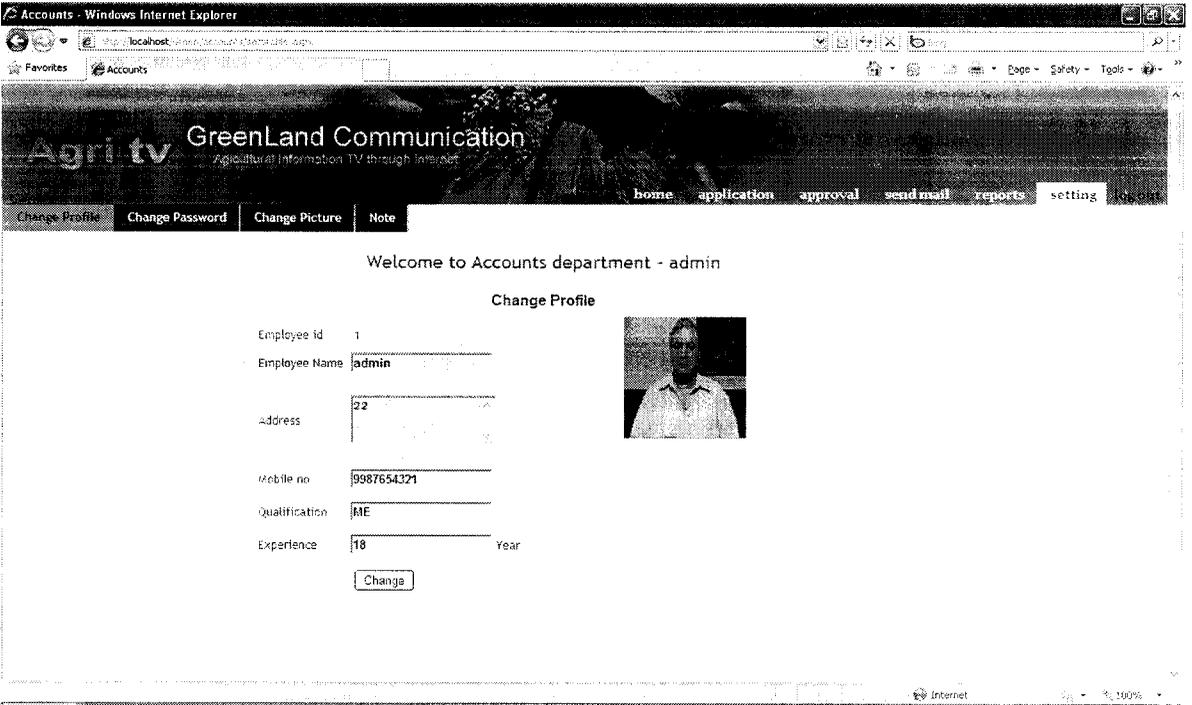
Figure A 1.22: Setting – Change Profile

Figure A 1.23: Employee - Notepad
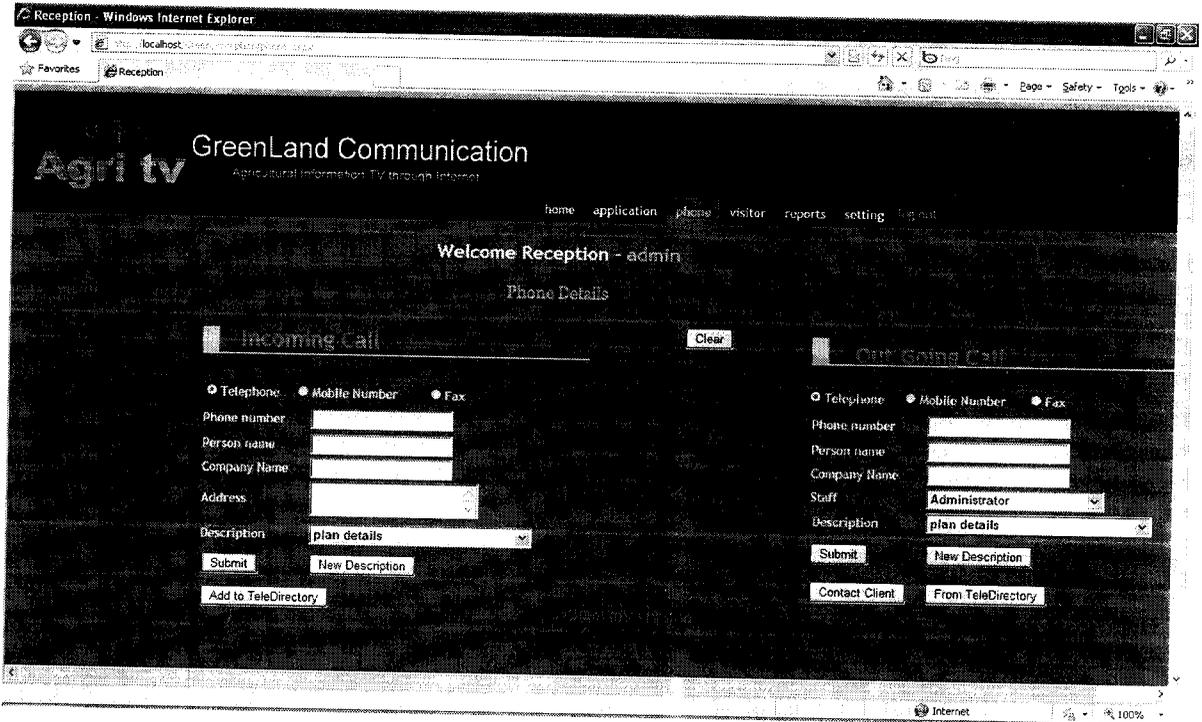
Figure A 1.24: Reception – Incoming and Outgoing call
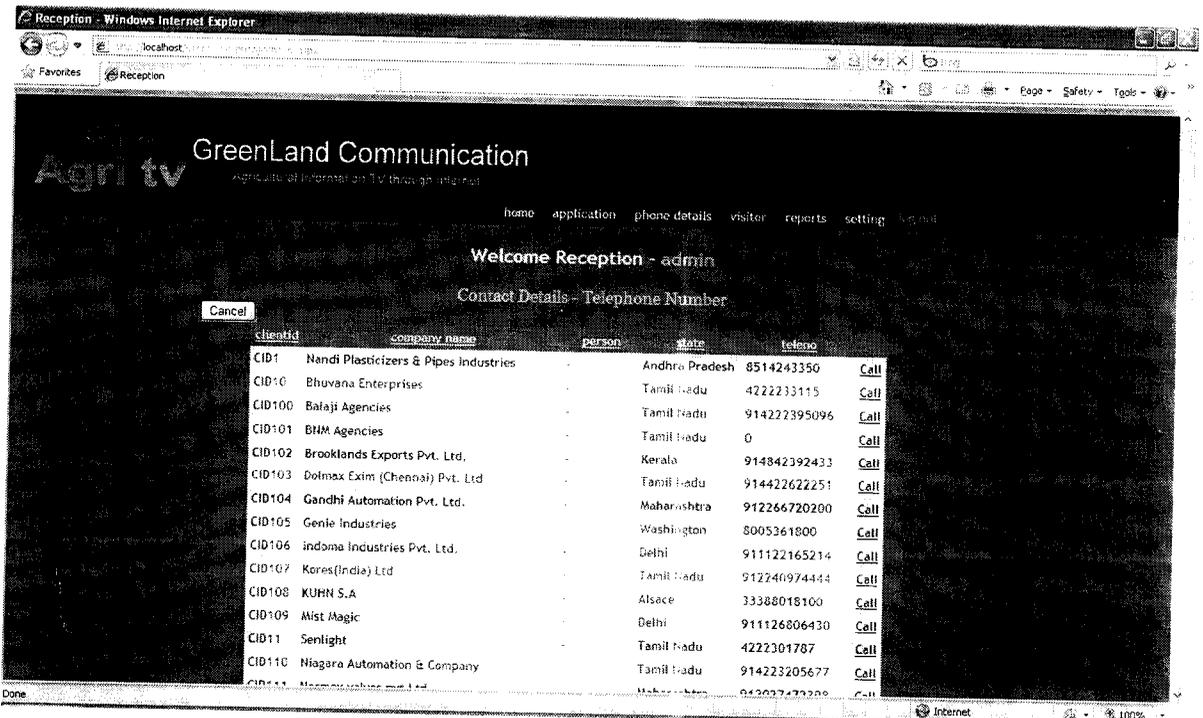
Figure A 1.25: Reception – contact details

48

Figure A 1.26: Reception - Visitor Details

Figure A 1.27: Reception - TeleDirectory Details
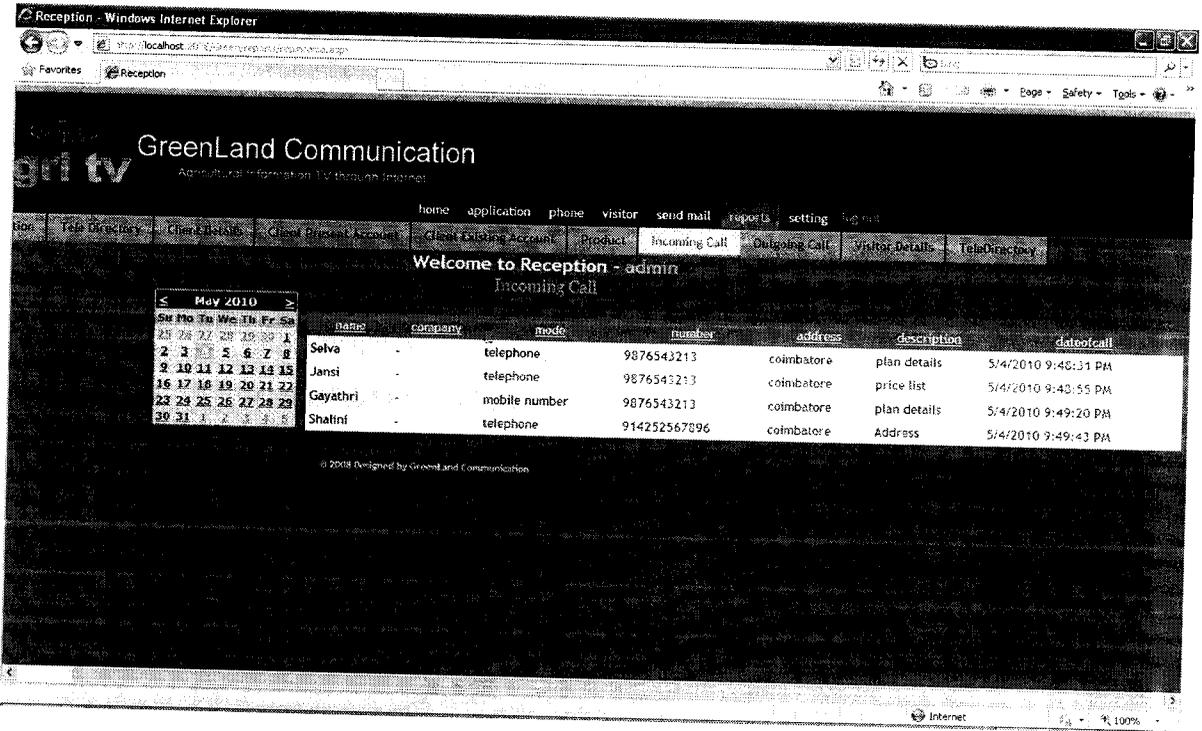
Figure A 1.28:Reception – marketing - Incoming Reports
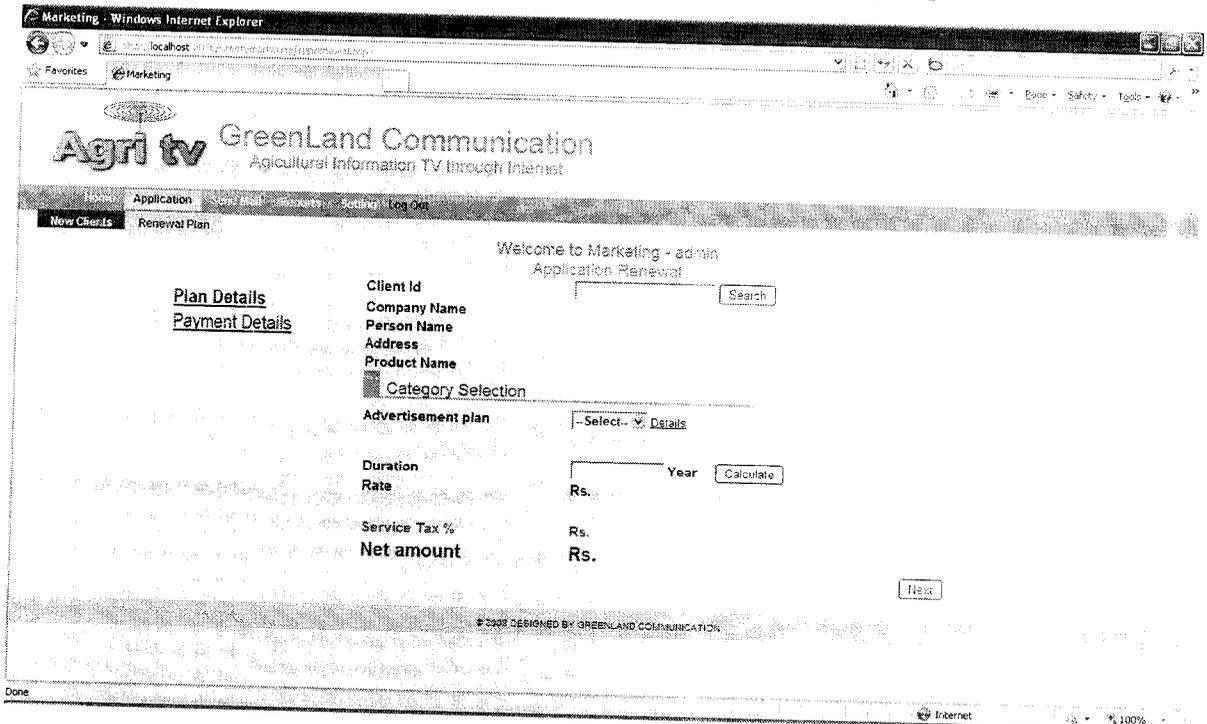
Figure A 1.29: Marketing Application renewal
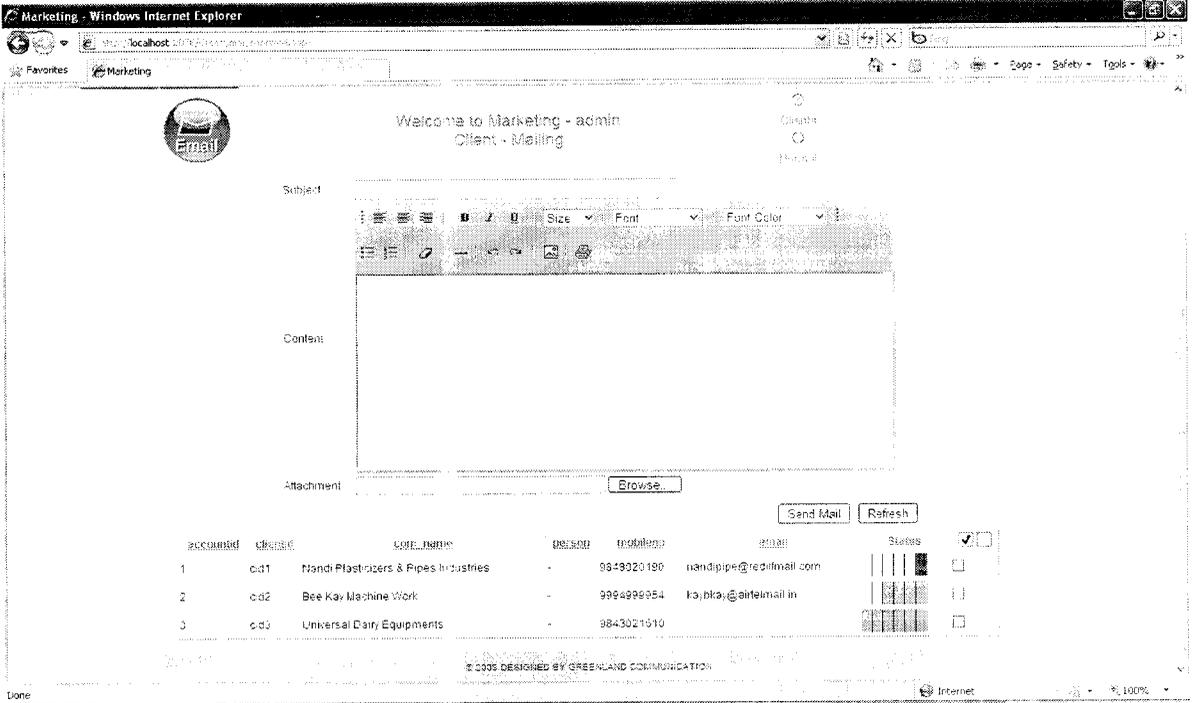
Figure A 1.30: Mail Sending
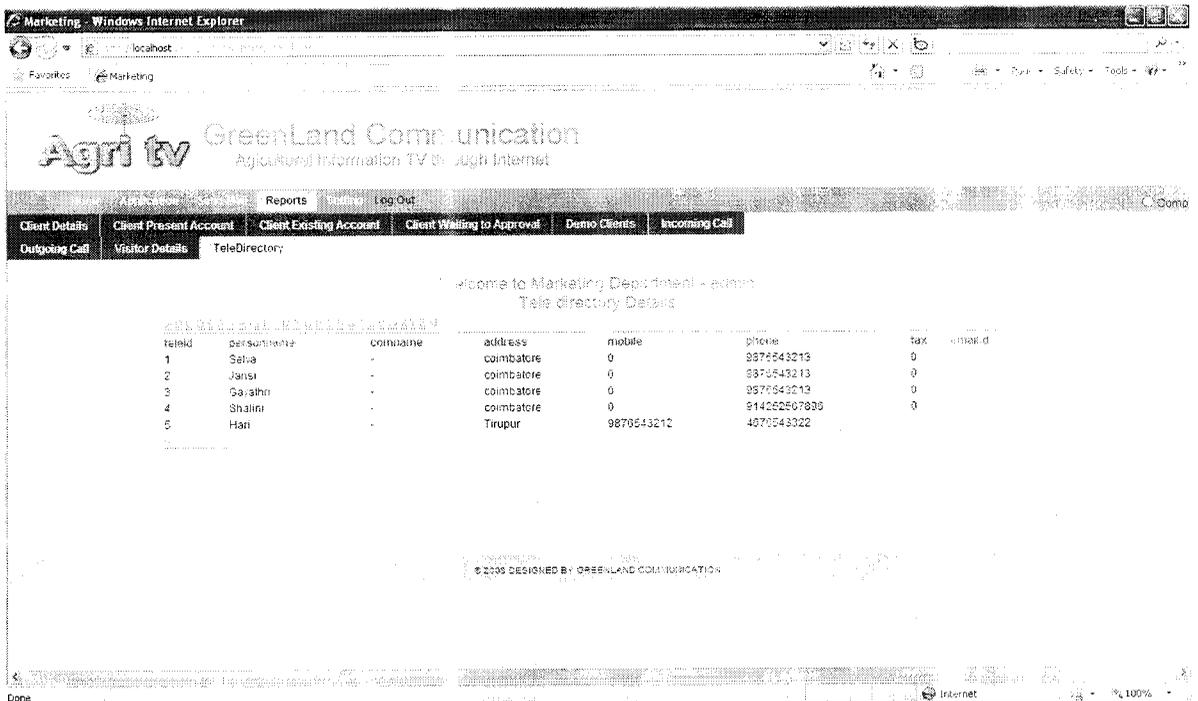
Figure A 1.31: Reports TeleDirectory
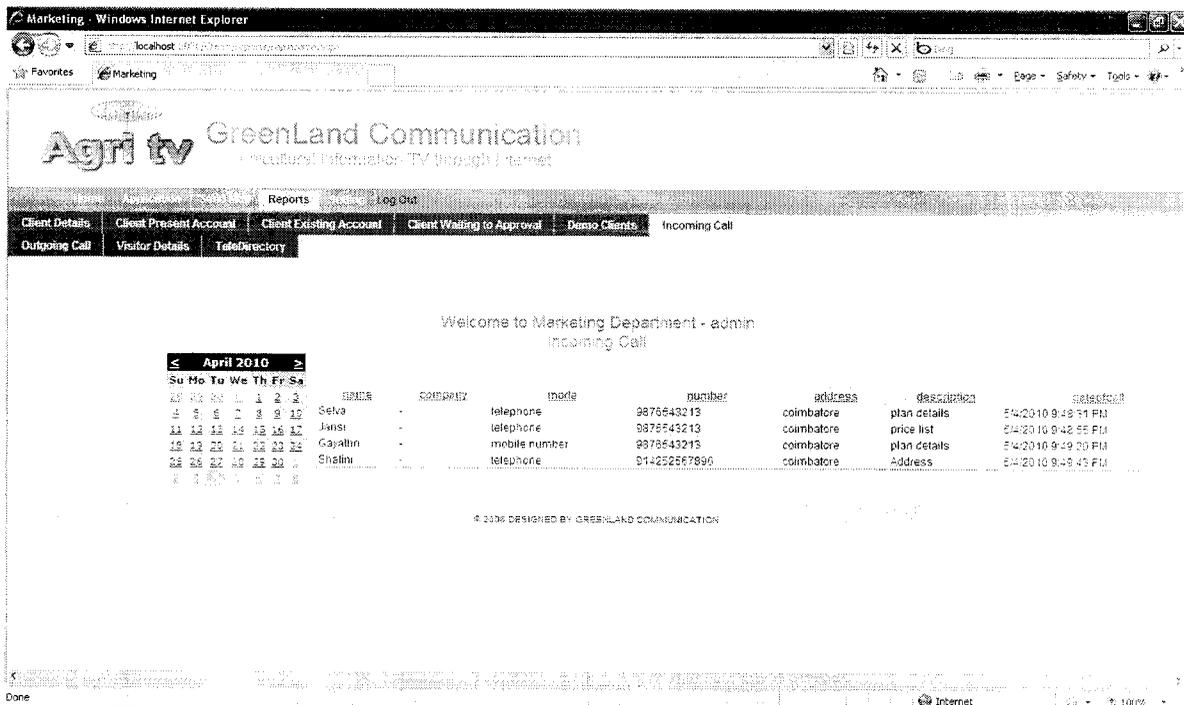
Figure A 1.32: Incoming Call
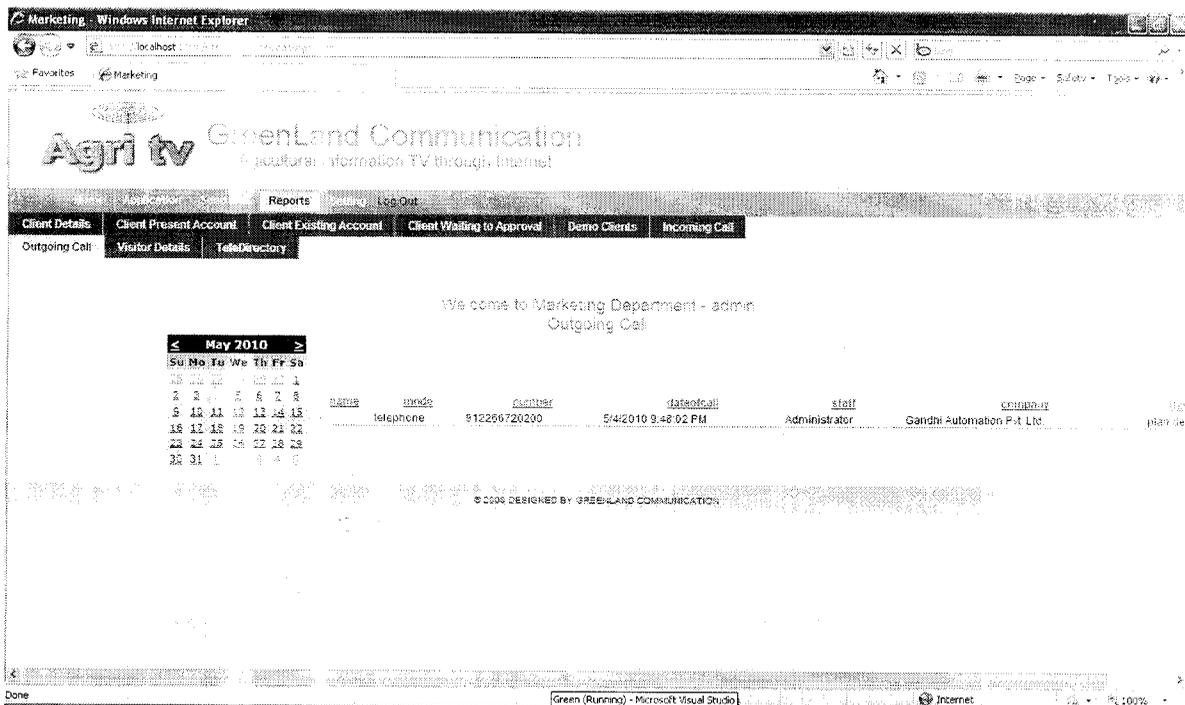
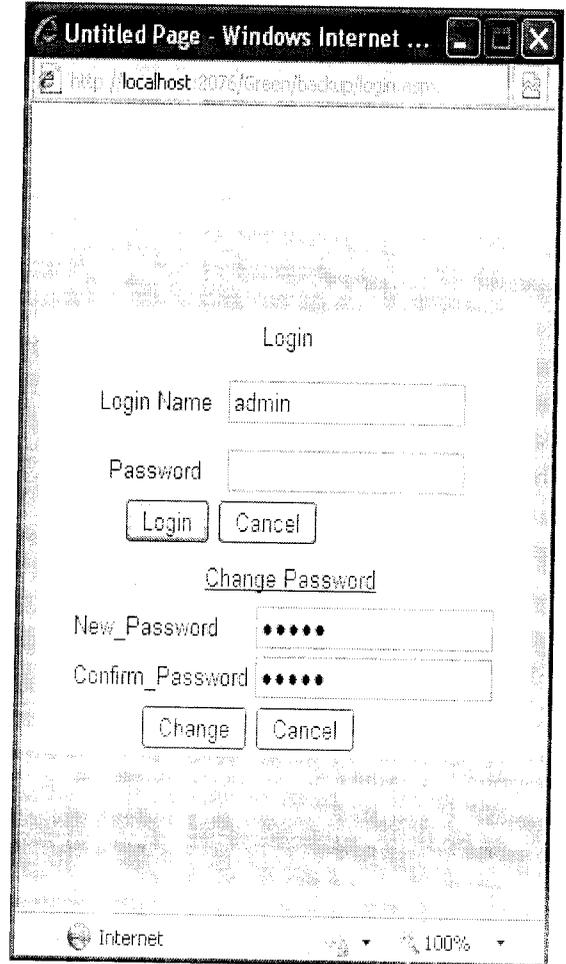**Figure A 1.33: Outgoing Call**

Figure A 1.34: TeleDirectory
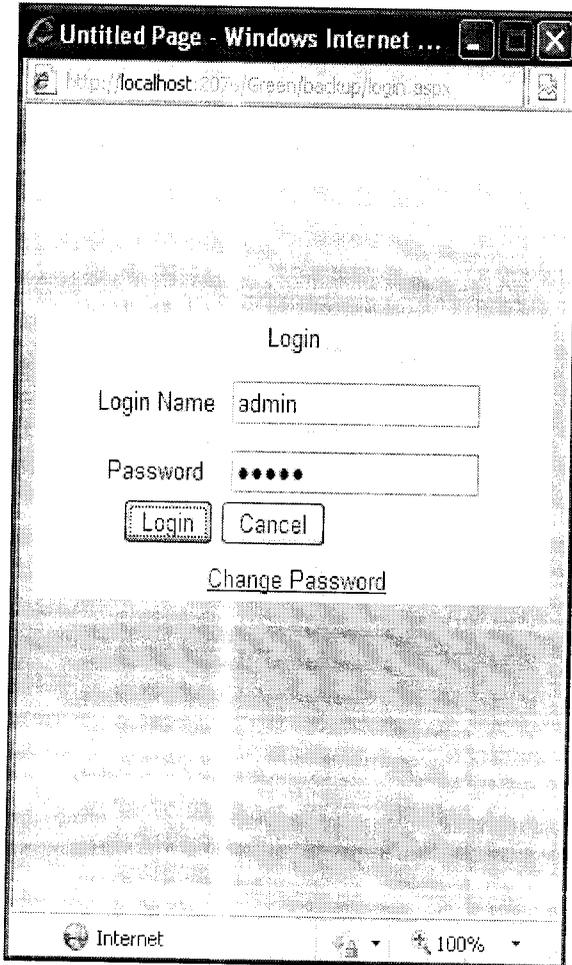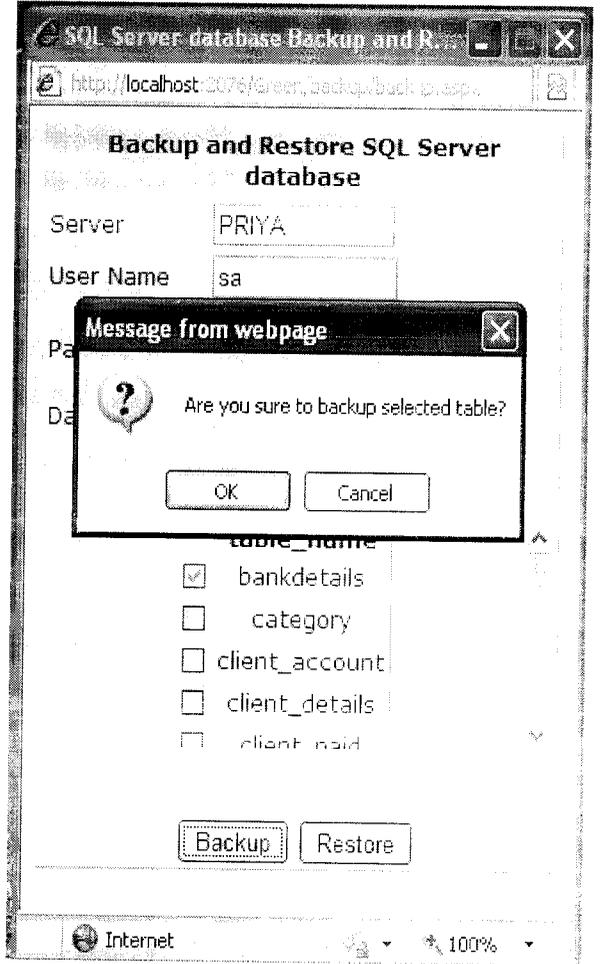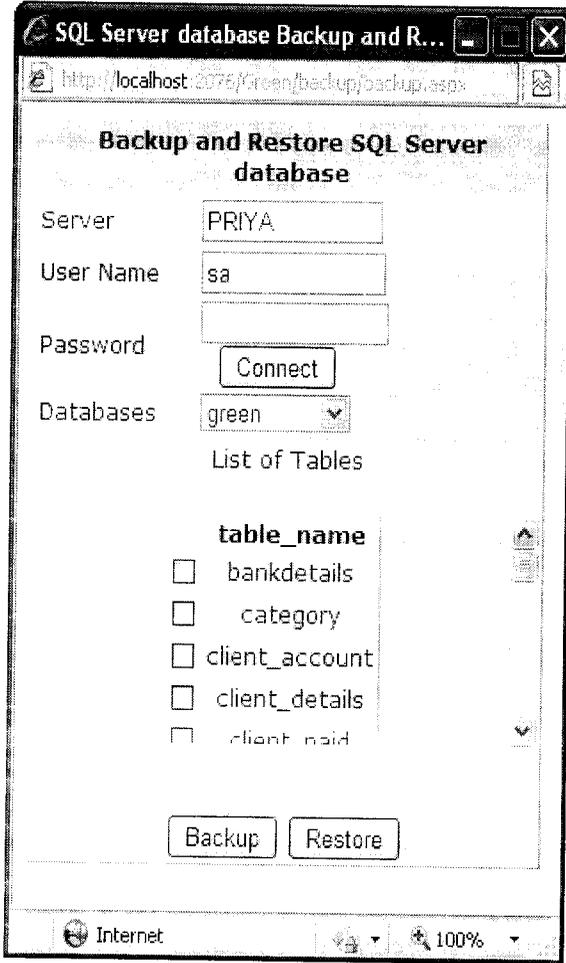

Figure A 1.35: Client Present Account

Figure A 1.36: SQL Backup

Figure A 1.37: SQL Backup

55
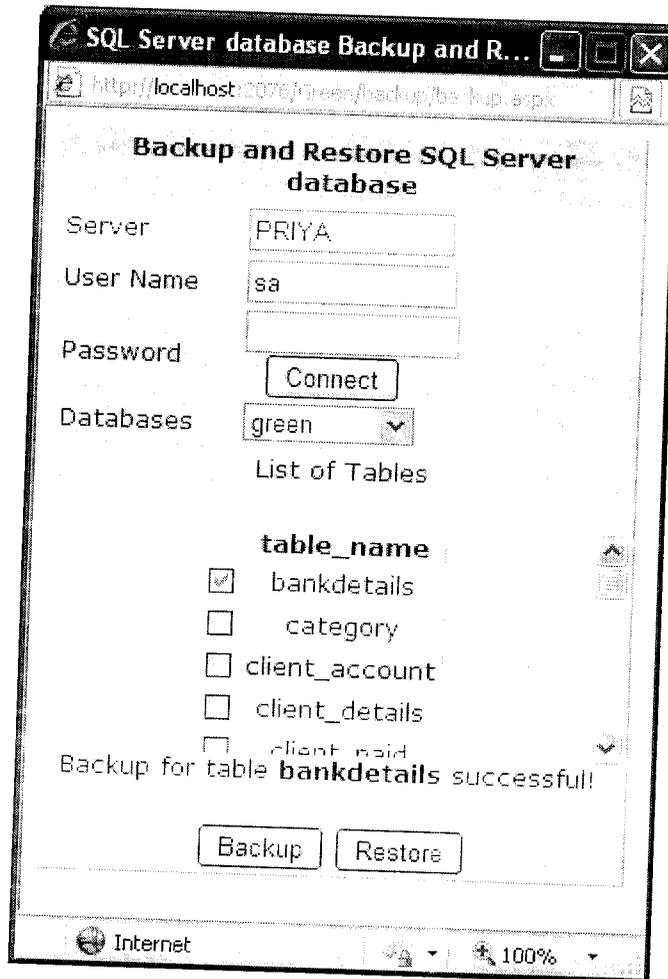
Figure A 1.38: SQL Backup
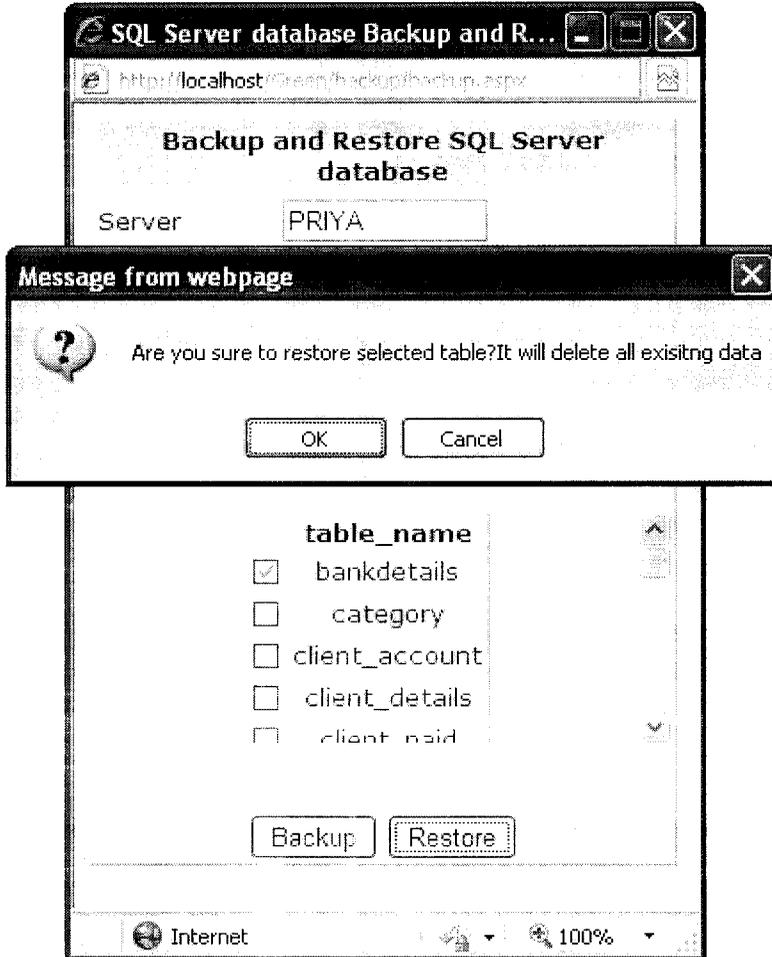
Figure A 1.39: SQL Backup

GreenLand Communication - Client Renewal Receipts

Client ID	CID77
Company Name	Southern Agro Engine (P) Ltd.,
Name	-
Address	#24A, III Phase, Indsutrial Estate, Guindy Chennai Tamil Nadu India 600032
TelePhone Number	914422500378
Mobile Number	0
Fax	91442250039
E-Mail	marketing@southernagro.com
Web Site	www.southernagro.com
Nature Of Business	
Date of Join	4/12/2010 11:48:45 AM
Date of renewal	5/4/2010 12:34:55 PM
Plan	A - Web Directory Listing
Scheme	Paid
Duration	2 Year
Amount	Rs. 8825.00 /-
Payment Mode	ChequeNo35467 - Canara BankUdumalpet

Web Directory Name	Sub Directory Name
Agri Equipment	Engine Products
Agri Equipment	Power Tiller
Agri Equipment	Sprayers

GreenLand Communication - Client Application Details

Client ID	CID3
Company Name	Universal Dairy Equipments
Name	-
Address	No.394,Girimman Kovil Street, Peelamedu Coimbatore Tamil Nadu India 641004
TelePhone Number	04222576604
Mobile Number	9843021610
Fax	04222576604
E-Mail	
Web Site	
Nature Of Business	
Date of Join	4/6/2010 11:35:08 AM
Date of renewal	
Plan	A Web Directory Listing
Scheme	Demo

| Web Directory Name	Sub Directory Name
Agri Equipment	Chaff Cutter

GreenLand Communication - Client Renewal Receipts

Client ID   CID6

Company Name   RajKumar Agro Engineers Pvt.Ltd

Name   -

Address   Near Union Bank, Ghat Road,
                             Nagpur Maharashtra
                             India 440001

TelePhone Number   07122725271

Mobile Number   9422807682

Fax   0

E-Mail   rajkumarexpeller@gmail.com

Web Site   www.rajkumaragromachinery.com

Nature Of Business

Date of Join   4/6/2010 11:46:18 AM

Date of renewal   5/4/2010 12:28:55 PM

Plan   B - Additional Page

Scheme   Paid

Duration   4 Year

Amount   Rs. 4412.00 /-

Payment Mode   Cash

Web Directory Name   **Sub Directory Name**

Agri Equipment   Chaff Cutter

Figure A 1.40: Client Application Report

Figure A 1.41: Client Renewal Receipts

CHAPTER 10
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