A Project Report

On

Infrastructure Management System

This is to certify that the project work entitled **"Infrastructure Management System for Vishakhapatnam Steel Plant"** is submitted by **xxxx** student of B.Tech third year in order to fulfill the required curriculum of the mini project to be submitted in the college**.** It is a bonafied record of work carried out by her in the IT Department of VSP.

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DECLARATION

We here by declare that the project title "**PORT SCANNER**", Submitted by us to xxxxx affiliated to JNTU, is original in nature and is bonafide one carried out by us .

The project is being submitted in partial fulfillment of the requirement for the award of bachelor of technology. The reports have not been submitted either in part or in full for degree or diploma earlier to this University or any other University.

Acknowledgement

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ABSTRACT

Visakhapatnam steel plant is having more than 50 numbers of servers to handle various operations in Steel Plant. Periodical Maintenance of these servers is a crucial activity. Server Management System is intranet based web application, which is designed by Information Technology Department of Visakhapatnam Steel plant to log details of servers online by System Server Group. The web based application is used within their organization under the distributed accessibility. This application is actually developed to cater to reduce physical work of maintaining log books in their work. Servers are the main hardware in computerization of various activities in Steel Plant. This System applies to every server used in data and application storage and processing.

IMS consists of following modules/activities:

- Server Management

- Server Maintenance
- Cartridge Management
- Mock Restoration
- Software Management
- Document Management

Server Management
Description
Visakhapatnam Steel Plant maintains several servers to host various applications that are used in the Plant. These servers' details are maintained for future maintenance. These details include server name, server make, date of purchase etc…

Server Maintenance
Description
Periodically, server maintenance is done and the details are captured. These details include server name, date of maintenance, problem found, and parts replaced etc….

Cartridge Management
Description
Periodical backup is taken for various applications on request along with regular backup. Tape Cartridges are used for the backup. Cartridge details include cartridge name, backup number, state etc…

Mock Restoration
Description

Backed up data is restored whenever it is required. Mock Restorations are done to check the correctness of the data written on Cartridge. These details include cartridge name, restoration date etc….

Software Management

Description
Software received along with various hardware devices are managed properly. Software type, hardware details and rack no are captured.

Document Management
Description
Various documents received along with servers are managed properly. Details of the documents and their storage details are captured.

INTRODUCTION

OBJECTIVE

Visakhapatnam steel plant is having more than 50 numbers of servers to handle various operations in Steel Plant. Periodical Maintenance of these servers is a crucial activity. Server Management System is intranet based web application, which is designed by Information Technology Department of Visakhapatnam Steel plant to log details of servers online by System Server Group. The web based application is used within their organization under the distributed accessibility. This application is actually developed to cater to reduce physical work of maintaining log books in their work.

SCOPE

Servers are the main hardware in computerization of various activities in Steel Plant. This System applies to every server used in data and application storage and processing.

EXISTING SYSTEM

Presently server management information is maintained through log book.

INTERFACE REQUIREMENTS

User Interfaces

NA

Hardware Interfaces

- Pentium IV Processor.
- 128 MB RAM.
- 20GB Hard Disk space.
- Ethernet card with an Internet and Internet zone.

Software Interfaces

- Windows 98 or 2000 or XP operating system.
- Internet explorer 5.0 and Netscape navigator.
- Visual Studio 2005
- Front end: asp.net with C#
- Oracle 9i as back end
- IIS.

Communications Interfaces

- The user should be able to see the report without vertical and horizontal scroll
- If scroll is required then it is should be minimum.
- The user should be able to take neat print out of the report
- The login and display of the information would short time. For log in maximum time should be 5 seconds and fro display of information the maximum time should be 10 seconds.

PROJECT ANALYSIS

STUDY OF THE SYSTEM:

Generally maintaining infrastructure details like server details, cartridge details, mock details, software and document details of a particular server through log book became crucial activity. So mainly this application is developed to reduce the physical work of maintaining through log books.

This application is generally for infrastructure management group of steel plant who takes care of the entire infrastructure in the department. With this application accessibility of particular information is easier than in log books. Redundancy of the data will not be there while maintaining infrastructure details through this application and the searching process will be reduced. Data has more security while using this application. Only authenticated users can log on to this and they only can create or modify the details. And the details of user (employee no, time of entered) are recorded in database when he creates or modifies the data.

Need for Computerization

- Duplication of work avoided
- Paper work is drastically reduced
- Retrieval and access of data is easy

High-Level Project Goals

· Improve efficiency in the department

· Availability of online service

· Availability of data to senior officials for quick decision making

· Better administration

Project Features:

Infrastructure Management System (IMS) basically is a web based application using .Net environment for server management.

The Key features of IMS are:

- User friendly application for server management and maintenance process.

- Online availability of server status.

Modules:

- Server Management
- Server Maintenance
- Cartridge Management
- Mock Restoration
- Software Management
- Document Management

Server Management
Description
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Description
Periodically, server maintenance is done and the details are captured. These details include server name, date of maintenance, problem found, and parts replaced etc….

Cartridge Management
Description
Periodical backup is taken for various applications on request along with regular backup. Tape Cartridges are used for the backup. Cartridge details include cartridge name, backup number, state etc…

Mock Restoration
Description
Backed up data is restored whenever it is required. Mock Restorations are done to check the correctness of the data written on Cartridge. These details include cartridge name, restoration date etc….

Software Management

Description
Software received along with various hardware devices are managed properly. Software type, hardware details and rack no are captured.

Document Management
Description
Various documents received along with servers are managed properly. Details of the documents and their storage details are captured.

PROJECT DESIGN

UML DIAGRAMS

Use Case Diagram for Login:

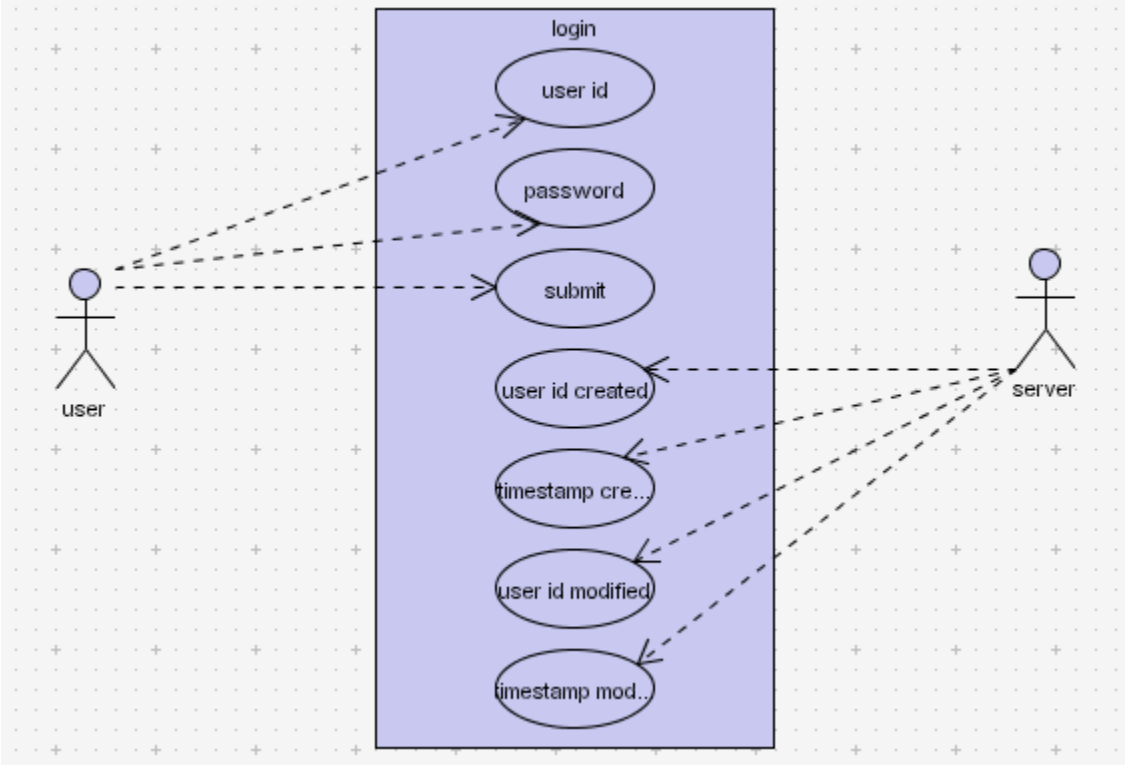


Diagram for Home Screen:

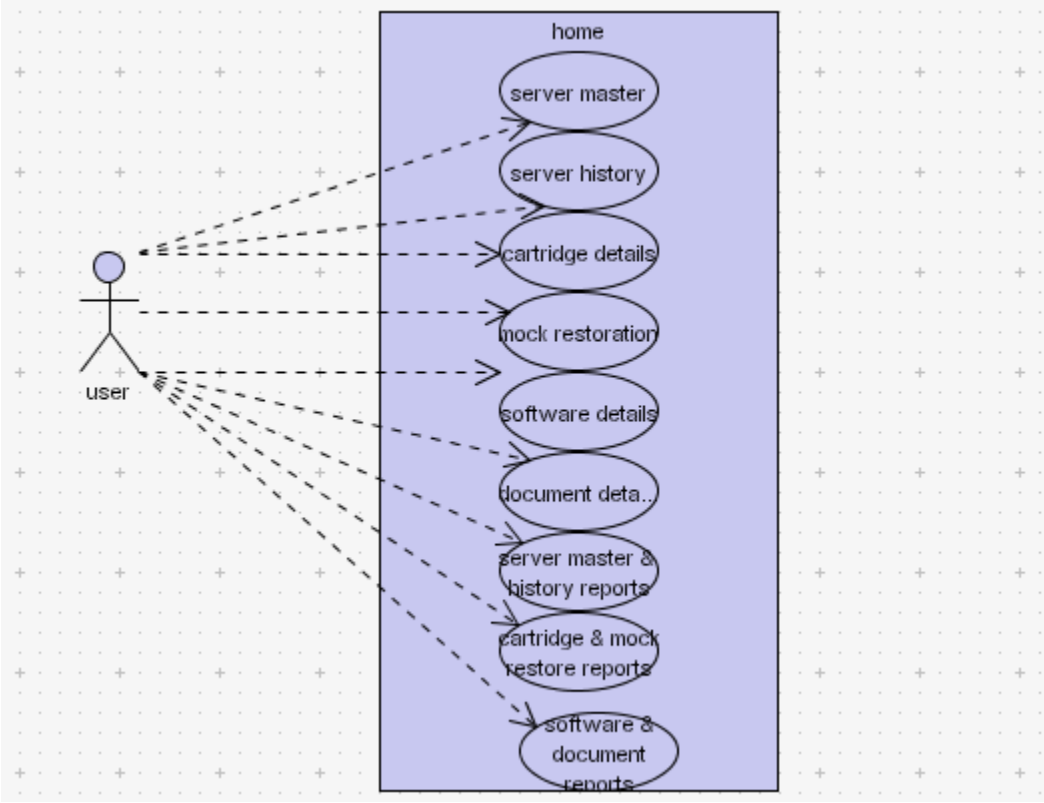


Diagram for Main Screens:

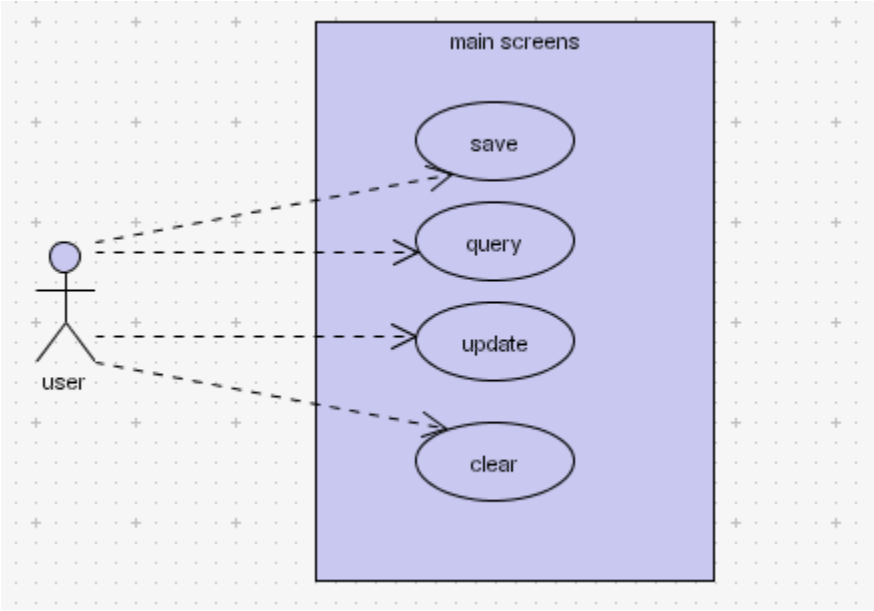
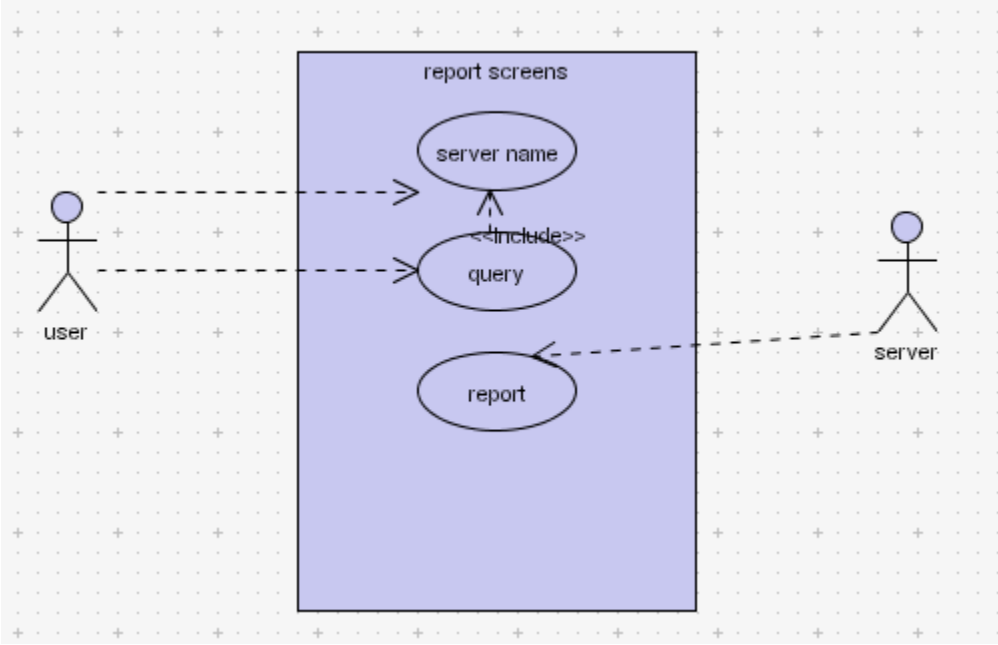


Diagram for report screens:



DATABASE TABLES

Login

Description

Authenticity of the user is checked by this screen. If the user is having valid user id and password then the user id allowed navigating through the home page.

Table name:

Id

Field Description	**Data Type(Size)**	**Remarks**
user_id	Varchar2(6)	It is user's login id
Password	Varchar2(10)	It is login user's password

Server Management

This table gives the details of server and its various fields. ….

Table name:

tssg_server_master

Field name	Data Type(Size)	Description
server_name	Varchar2(30)	It is server name and it is primary key
server_ip	Varchar2(20)	It is server ip address
server_alias	Varchar2(30)	It is another name of server
server_make	Varchar2(30)	
server_model	Varchar2(30)	
server_type	Varchar2(30)	
server_slno	Varchar2(30)	It is server serial number
server_cpu_det	Varchar2(30)	It is about cpu details of server
server_ram	Varchar2(30)	
server_disks	Varchar2(30)	
server_pci_x	Varchar2(30)	
server_os	Varchar2(30)	It is server operating system
server_db_as	Varchar2(30)	It is database application server
server_serv_hosted	Varchar2(30)	It is service hosted
server_appl_hosted	Varchar2(30)	It is server application hosted

server_mgmt_act	Varchar2(30)	It is server management activities
server_monitor_act	Varchar2(30)	It is server monitor activities
server_bck_plan1_dt	Date	It is server back up plan1 date
server_bck_plan2_dt	Date	It is server back up plan2 date
server_proc_at_no	Varchar2(30)	It is server process acceptance trader number
server_proc_at_dt	Date	It is server process acceptance trader date
server_inst_dt	Date	It is server installation date
server_warrty_exp_dt	Date	It is server warranty expiry date
server_supplier	Varchar2(30)	
server_maint_agency	Varchar2(30)	Server maintenance agency
server_location	Varchar2(30)	
server_rack_name	Varchar2(30)	
server_rack_position	Number	
user_id_created	Varchar2(6)	
timestamp_created	timestamp	
user_id_modified	Varchar2(6)	
timestamp_modified	timestamp	

Server Maintenance

Periodically, server maintenance is done and the details are captured.

Table name:

- tssg_server_history

Field Description	**Data Type(Size)**	**Description**
server_name	Varchar2(30)	
problem_report_date	Date	
problem_description	Varchar(200)	
oem_agency	Varchar(100)	It is original equipment manufacture agency
call_report_dt	Date	It is call report date
server_availabilty_status	Varchar(10)	
server_down_date	Date	
server_restart_date	Date	
call_attend_dt	Date	
call_attend_engg	Varchar(30)	
problem_part_no	Varchar(30)	
problem_part_desc	Varchar(100)	
problem_reasons	Varchar(100)	
actions_taken	Varchar(100)	
remarks	Varchar(100)	
user_id_created	Varchar(6)	
timestamp_created	Timestamp	
user_id_modified	Varchar(6)	
timestamp_modified	Timestamp	

Cartridge Management

This table maintains the details of cartridges and its various fields

Table name:

tssg_server_cartridges

Field Description	Data Type(Size)	Description
cart_label	Varchar2(20)	
cart_make	Varchar2(20)	
cart_type	Varchar2(20)	
cart_capacity	Varchar2(20)	
cart_purpose	Varchar2(30)	
cart_location	Varchar2(30)	
cart_status	Varchar2(10)	
cart_init_label_date	Date	It is cartridge initialization label date
cart_closed_date	Date	
cart_contents	Varchar2(100)	
remarks	Varchar2(100)	
user_id_created	Varchar2(6)	
timestamp_created	Timestamp	
user_id_modified	Varchar2(6)	
timestamp_modified	Timestamp	

Mock Restoration

Table name:

tssg_cartridges_mock_restore

Field Description	**Data Type(Size)**	**Description**
cart_label	Varchar2(20)	
cart_mock_restore_dt	Date	it is cartridge mock restoration date
cart_closed_date	Date	
remarks	Varchar2(100)	
user_id_created	Varchar2(6)	
timestamp_created	Timestamp	
user_id_modified	Varchar2(6)	
timestamp_modified	Timestamp	

Software management:

Table name:

tssg_software_details

Field Description	Data Type(Size)	Description
media_label	Varchar2(20)	
part_no	Varchar2(20)	
type_media	Varchar2(10)	
software_category	Varchar2(20)	
media_description	Varchar2(200)	
media_date	Date	
media_location	Varchar2(100)	
Remarks	Varchar2(100)	
user_id_created	Varchar2(6)	
timestamp_created	Timestamp	
user_id_modified	Varchar2(6)	
timestamp_modified	Timestamp	

Document Management

Table name:

tssg_document_details

Field Description	Data Type(Size)	Description
document_label	Varchar2(20)	
document_category	Varchar2(20)	
document_description	Varchar2(100)	
document_location	Varchar2(30)	
document_date	Date	
Remarks	Varchar2(100)	
user_id_created	Varchar2(6)	
timestamp_created	Timestamp	
user_id_modified	Varchar2(6)	
timestamp_modified	Timestamp	

SCREEN SHOTS

Functional Requirements

The functional requirements have been divided to various logical modules, further drilled down to the level of individual functionalities. Each function requirement is illustrated in different section heads:

1. Description of the function
2. Input
3. Screen
4. Processing
5. Output

Operational Concepts and Scenarios

After successful login the system, the home page will be displayed to the user. When the user clicks on a particular menu option, the corresponding screen/form will be displayed on screen.

Login

Authenticity of the user is checked by this screen. If the user is having valid user id and password then the user id allowed navigating through the home page.

Input

Data Stores:

Id

Processing

The user authentication is checked by this screen. When the screen is displayed, user has to enter the user id and password. If user enters valid user id and password, then the user will be directed to HOME page.

Otherwise if user enters invalid user id, then a message will be displayed that “invalid user id” and if user enters invalid password, then a message will be displayed that “invalid password. Please enter correct password to login to the home page”

Query

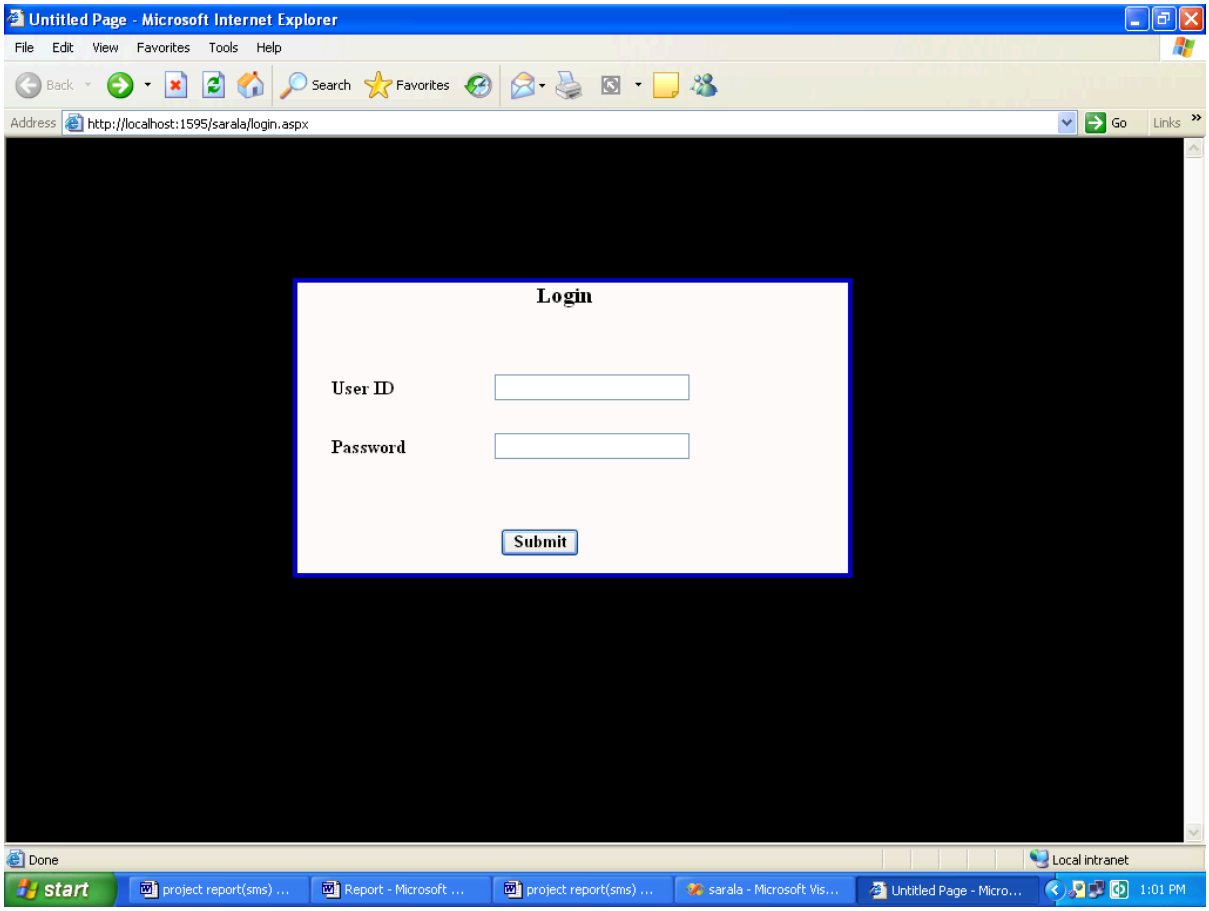
N/A

Save

N/A

Clear

N/A


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/login.aspx
Go Links
Login
User ID
Password
Submit
Done
Local intranet
start
project report(sms) ...
Report - Microsoft ...
project report(sms) ...
sarala - Microsoft Vis...
Untitled Page - Micro...
1:01 PM

Home

Description

This is the screen where all the links are displayed for required screen. When user clicks the link, corresponding screen will be displayed.

Data Store

Nil

Processing

Nil

Query:

Nil

Save

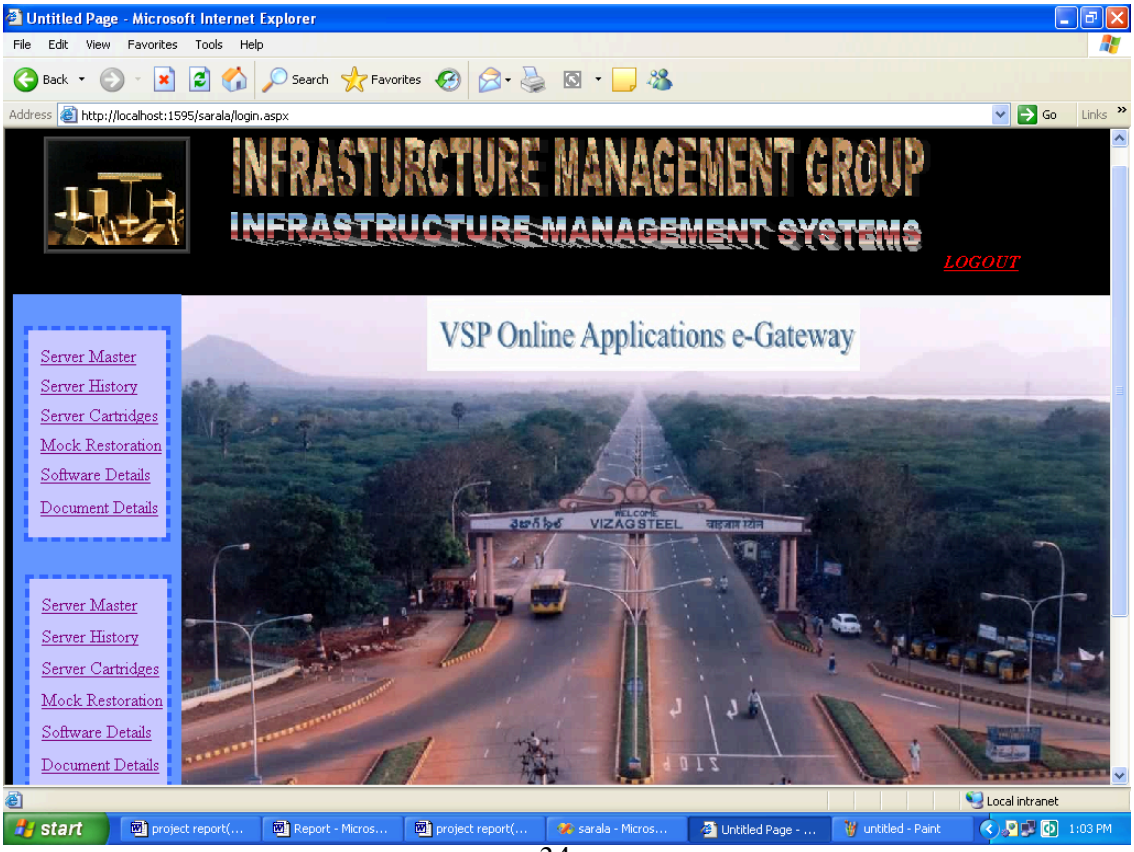
Nil

Update

Nil

Clear

Nil


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/login.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
VSP Online Applications e-Gateway
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
WELCOME
VIZAGSTEEL
Local intranet
start
project report(...
Report - Micros...
project report(...
sarala - Micros...
Untitled Page - ...
untitled - Paint
1:03 PM

Server Management

Description

Visakhapatnam Steel Plant maintains several servers to host various applications that are used in the Plant. These servers details are maintained for future maintenance. This screen is designed to enter the server details such as server name, server ip, server ram, server disks etc.

Input

Data Store:

- tssg_server_master

Processing

After clicking Server Master link in the home page Server Master Screen will be displayed. There user can enter the details of server such as server Name, Server Back up Plan dates, Server Supplier etc.

Save

After entering the details of server in the corresponding text boxes, Save button is pressed to insert the record. If user has not entered the server name or if the server name is not unique then a warning will be displayed as Server Name is Primary Key.

Query

All the details of Server Master record will be populated in the corresponding text boxes after clicking Query button by entering server name in the corresponding text box. Server Name field is deactivated after query button is clicked. Because user should not modify the server Name.

Update

Data is updated through the server name. User enters the server name and clicks Query button then corresponding record from the database are displayed in the text fields and if user wants to update the data user can click Update button to update the record in the data base.

Clear

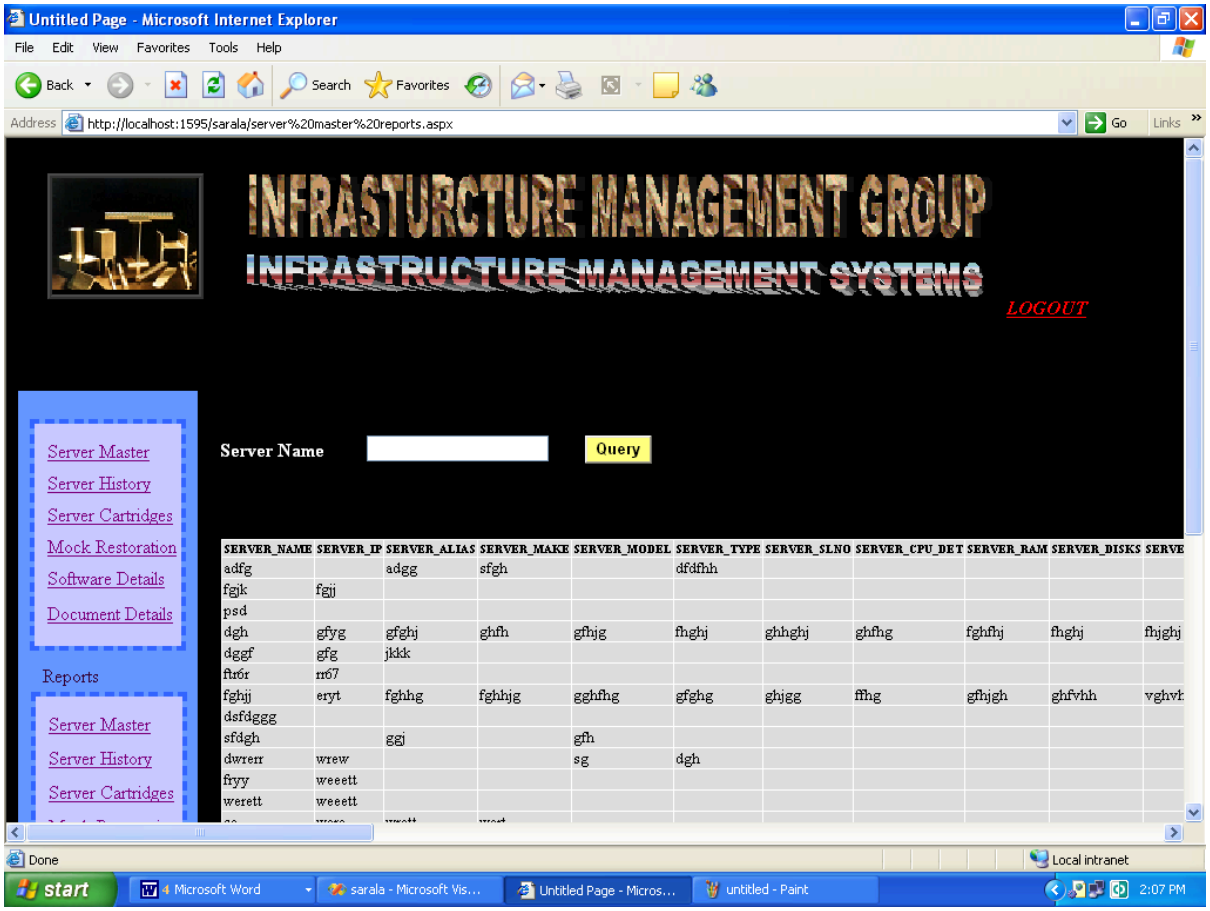
Clear button is clicked to erase the values in the text fields.


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/server_master.aspx
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Server Name
Server IP
Server Alias
Server Make
Server Model
Server Type
Server SLNO
Server CPU DET
Server Ram
Server Disks
Server PCI X
Server MGMT Act
Server Monitor Act
Server BCK Plan1 Date
Server BCK Plan2 Date
Server PROC AT No
Server PROC AT Date
Server INST Date
Server Warrty Exp Date
Server Supplier
Server Maint Agency
Server Location
Mock Restoration
Software Details
Document Details
Server OS
Server DB AS
Server SERV Hosted
Server APPL Hosted
Server Rack Name
Server Rack Position
Server Responsibility
Server Remarks
Save
Query
Update
Clear
Done
Untitled Page - Microsoft Internet Explorer
Local intrane
start
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint

Server Master Report

To display all the details of server master table user has to click the Server master reports link button, then server master reports screen will be displayed. There by clicking Query button all the record of server master table will be displayed. If user wants to see particular record of server master then he has to enter the server name field before clicking Query button.

Report screen after clicking Query button is as shown below


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/server%20master%20reports.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Server Name
Query
SERVER_NAME SERVER_IP SERVER_ALIAS SERVER_MAKE SERVER_MODEL SERVER_TYPE SERVER_SLNO SERVER_CPU_DET SERVER_RAM SERVER_DISKS SERVE
adfg adgg sfgh dfdfhh
fgjk fgjj
psd
dgh gfyg gfghj ghfh gfhjg fhghj ghhghj ghfhg fghfhj fhghj fhjghj
dggf gfg jkkk
fur6r m67
fghjj eryt fghhg fghhjg gghfhg gfghg ghjgg ffhg gfhjgh ghfvhh vghvh
dsfdggg
sfdgh ggj gfh
dwrerr wrew sg dgh
fryy weeett
werett weeett
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:07 PM

Server Maintenance

Description

Periodically, server maintenance is done and the details are captured. These details include server name, date of maintenance, problem found, and parts replaced etc….

Input

Data Store:

- tssg_server_history

Processing

After clicking Server History_link in the home page Server History Screen will be displayed. There user can enter the details of server such as server Name, problem report date, problem description, remarks etc.

Save

After entering the details of server in the corresponding text boxes, Save button is clicked to insert the record. If user has not entered the server name or if the server name is not unique then a warning will be displayed as Server Name is Primary Key.

Query

All the details of Server History record will be populated in the corresponding text boxes after clicking Query button by entering

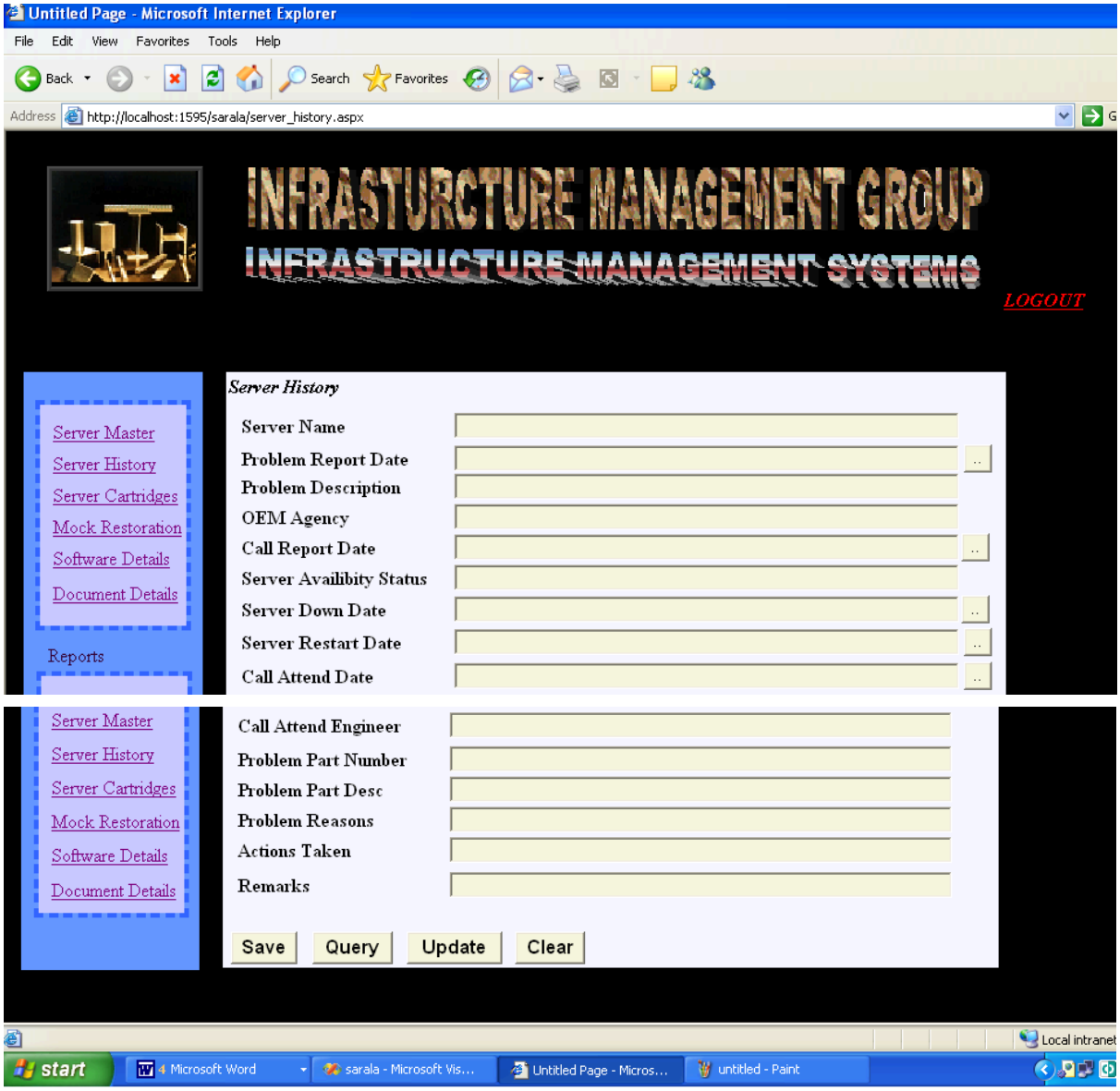
server name in the corresponding text box. Server Name field is deactivated after query button is clicked. Because user should not modify the server Name.

Update

Data is updated through the server name. User enters the server name and clicks Query button then corresponding record from the database are displayed in the text fields and if user wants to update the data user can click Update button to update the record in the data base.

Clear

Clear button is clicked to erase the values in the text fields.


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/server_history.aspx
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
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Server Master
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Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
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Problem Report Date
Problem Description
OEM Agency
Call Report Date
Server Availibity Status
Server Down Date
Server Restart Date
Call Attend Date
Call Attend Engineer
Problem Part Number
Problem Part Desc
Problem Reasons
Actions Taken
Remarks
Save
Query
Update
Clear
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint

Report

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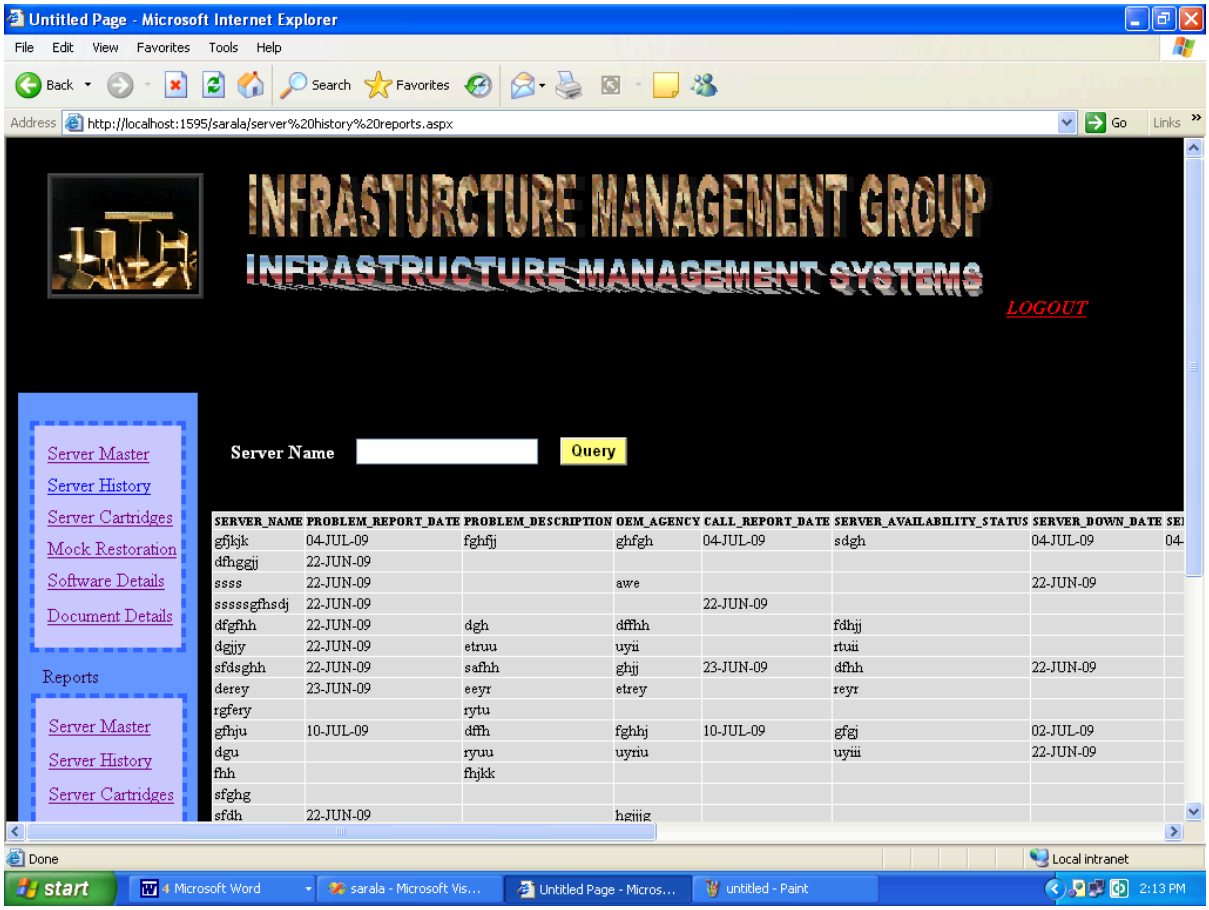
Report screen after clicking Query button is as shown below


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/server%20history%20reports.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
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Server History
Server Cartridges
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Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Server Name
Query
SERVER_NAME PROBLEM_REPORT_DATE PROBLEM_DESCRIPTION OEM_AGENCY CALL_REPORT_DATE SERVER_AVAILABILITY_STATUS SERVER_DOWN_DATE
gfjkjk 04-JUL-09 fghfjj ghfgh 04-JUL-09 sdgh 04-JUL-09
dfhggjj 22-JUN-09
ssss 22-JUN-09 awe 22-JUN-09
sssssgfhsdj 22-JUN-09 22-JUN-09
dfgfhh 22-JUN-09 dgh dffhh fdhjj
dgjjy 22-JUN-09 etruu uyii rtuii
sfdsghh 22-JUN-09 safhh ghjj 23-JUN-09 dfhh 22-JUN-09
derey 23-JUN-09 eeyr etrey reyr
rgfery rytu
gfhju 10-JUL-09 dffh fghhj 10-JUL-09 gfgj 02-JUL-09
dgu ryuu uyriu uyiii 22-JUN-09
fhh fhjkk
sfghg
sfdh 22-JUN-09 hgiiig
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
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untitled - Paint
2:13 PM

Cartridge Management

Description

Periodical backup is taken for various applications on request along with regular backup. Tape Cartridges are used for the backup. Cartridge details include cartridge name, backup number, state etc…

Input

Data Store:

- tssg_server_cartridges

Processing

After clicking Server Cartridges link in the home page Server Cartridges Screen will be displayed. There user can enter the details of server such as cartridge label, cartridge make, cartridge type etc.

Save

After entering the details of Cartridges in the corresponding text boxes, Save button is clicked to insert the record. If user has not entered the cartridge label or if cartridge label is not unique then a warning will be displayed as Cartridge label is Primary Key.

Query

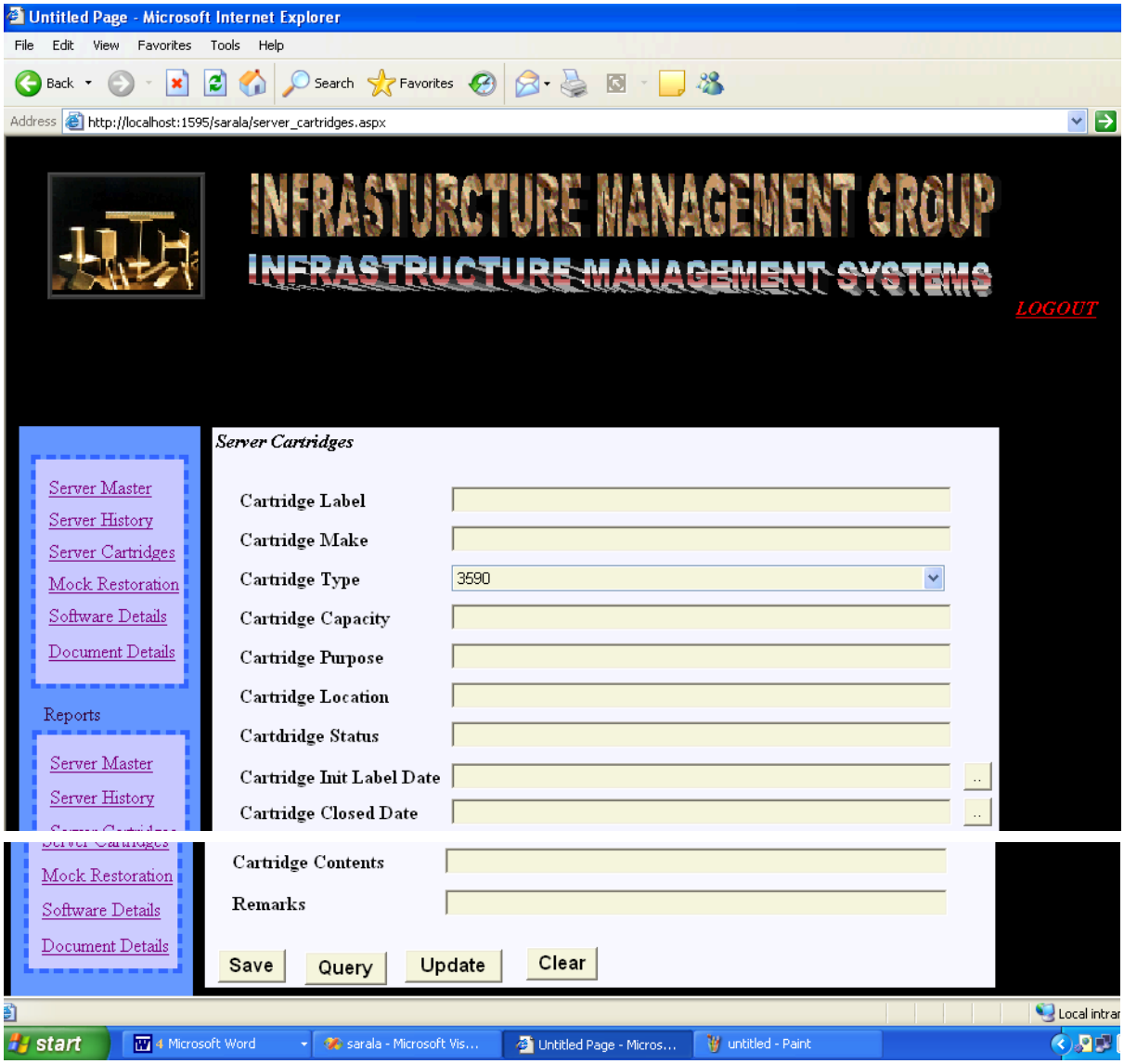
All the details of Server Cartridges record will be populated in the corresponding text fields after clicking Query button by entering cartridge label in the corresponding text box. Cartridge label field is deactivated after query button is clicked. Because user should not modify the cartridge label

Update

Data is updated through the cartridge label. User enters the cartridge label and clicks Query button then corresponding record from the database is displayed in the text fields and if user wants to update the data, user can click Update button to update the record in the data base.

Clear

Clear button is clicked to erase the values in the text fields**.**


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/server_cartridges.aspx
INFRASTURCTURE MANAGEMENT GROUP
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Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Mock Restoration
Software Details
Document Details
Server Cartridges
Cartridge Label
Cartridge Make
Cartridge Type
3590
Cartridge Capacity
Cartridge Purpose
Cartridge Location
Cartdridge Status
Cartridge Init Label Date
Cartridge Closed Date
Cartridge Contents
Remarks
Save
Query
Update
Clear
start
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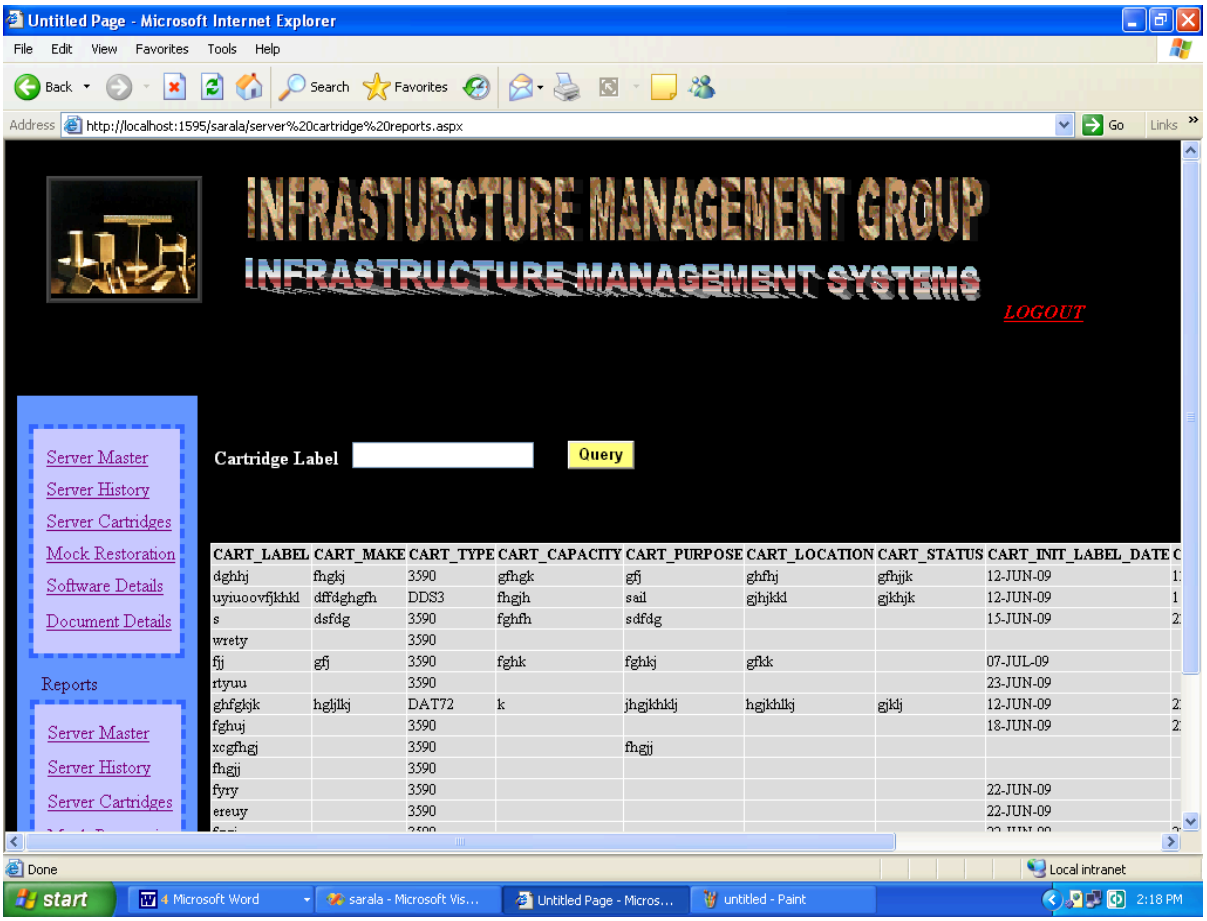
untitled - Paint

Server Cartridge Report:

To display all the details of server cartridges table user has to click the Server Cartridges reports link button, then server Cartridges reports screen will be displayed. There by clicking Query button all the record of server Cartridges table will be displayed. If user wants to see particular record of server history then he has to enter the cartridge label field before clicking Query button.

Report screen after clicking Query button is as shown below


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/server%20cartridge%20reports.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Cartridge Label
Query
CART_LABEL CART_MAKE CART_TYPE CART_CAPACITY CART_PURPOSE CART_LOCATION CART_STATUS CART_INIT_LABEL_DATE
dghhj fhgkj 3590 gfhgk gfj ghfhj gfhjjk 12-JUN-09
uyiuoovfjkhkl dffdghgfh DDS3 fhgjh sail gjhjkkl gjkhjk 12-JUN-09
s dsfdg 3590 fghfh sdfdg 15-JUN-09
wrety 3590
fjj gfj 3590 fghk fghkj gfkk 07-JUL-09
rtyuu 3590 23-JUN-09
ghfgkjk hgljlkj DAT72 k jhgjkhkdj hgjkhlkj gjkdj 12-JUN-09
fghuj 3590 18-JUN-09
xcgfhgj 3590 fhgjj
fhgjj 3590
fyry 3590 22-JUN-09
ereuy 3590 22-JUN-09
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:18 PM

Mock Restoration

Description

Backed up data is restored whenever it is required. Mock Restorations are done to check the correctness of the data written on Cartridge. These details include cartridge name, restoration date etc….

Input

Data Store:

tssg_cartridges_mock_restore

Processing

After clicking Mock Restoration link in the home page Server Cartridges Screen will be displayed. There user can enter the details of server such as cartridge label, cartridge mock restore date, cartridge closed date etc.

Save

After entering the details of Mock Restoration in the corresponding text fields, Save button is clicked to insert the record. If user has not entered the cartridge label or if cartridge label is not unique then a warning will be displayed as Cartridge label is Primary Key.

Query

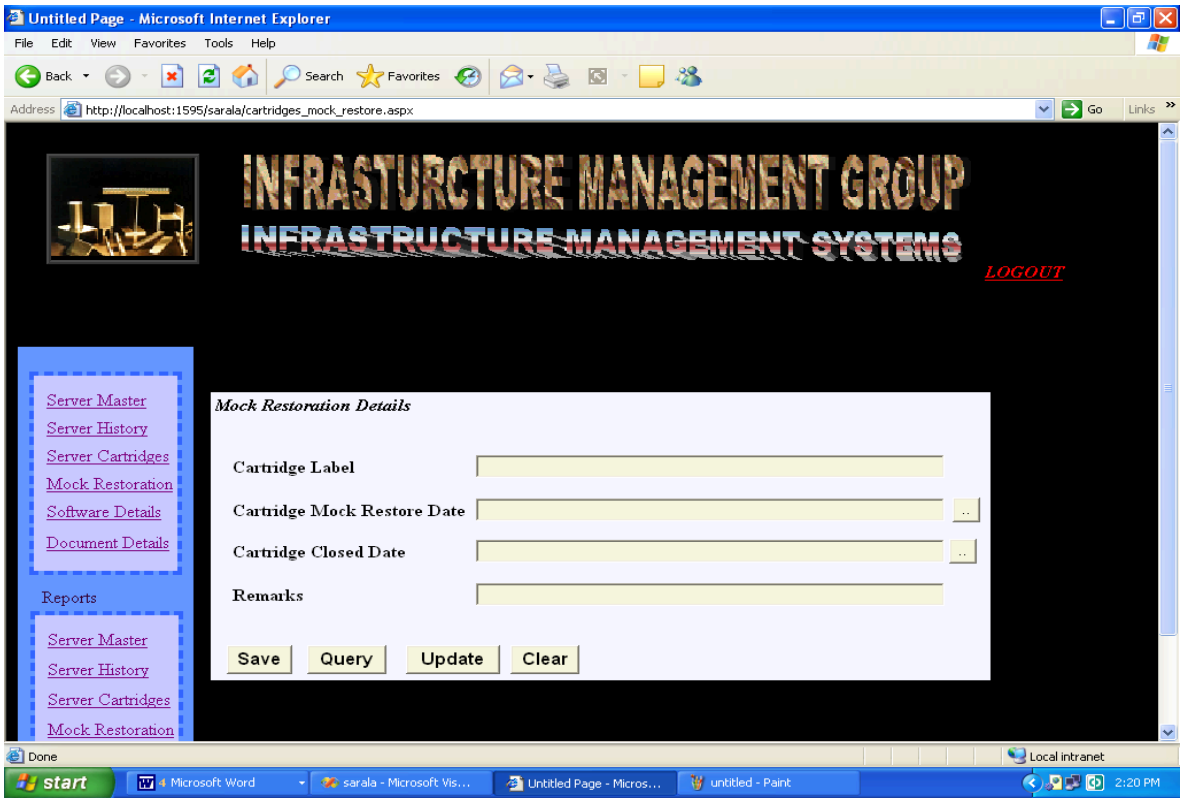
All the details of Mock Restoration record will be populated in the corresponding text fields after clicking Query button by entering cartridge label in the corresponding text box. Cartridge label field is deactivated after query button is clicked. Because user should not modify the cartridge label

Update

Data is updated through the cartridge label. User enters the cartridge label and clicks Query button then corresponding record from the database is displayed in the text fields and if user wants to update the data, user can click Update button to update the record in the data base.

Clear

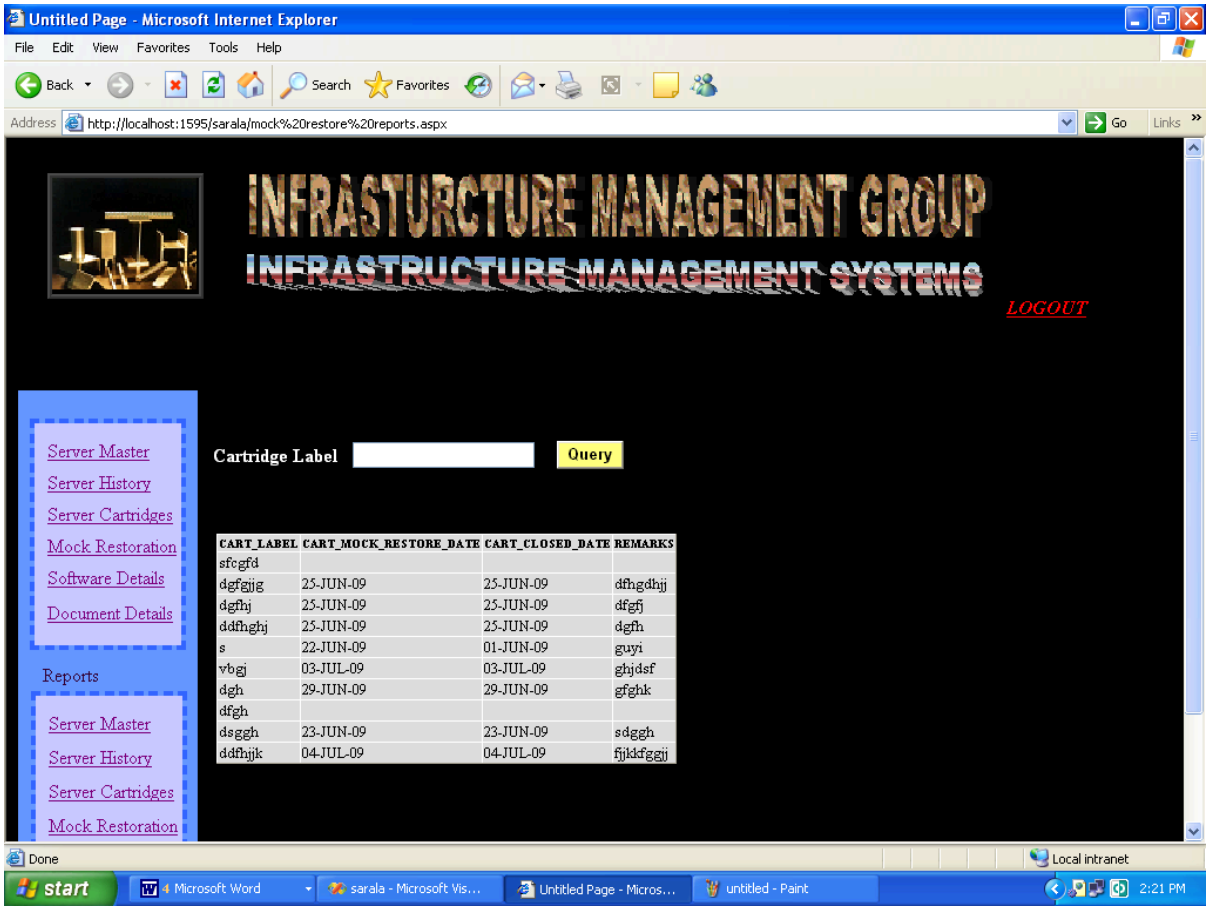
Clear button is clicked to erase the values in the text fields**.**


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/cartridges_mock_restore.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Mock Restoration
Mock Restoration Details
Cartridge Label
Cartridge Mock Restore Date
Cartridge Closed Date
Remarks
Save
Query
Update
Clear
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:20 PM

Mock Restoration Reports:

To display all the details of Mock Restoration table user has to click the Mock Restoration reports link button, then Mock Restoration reports screen will be displayed. There by clicking Query button all the record of mock Restoration table will be displayed. If user wants to see particular record of Mock Restoration then he has to enter the cartridge label field before clicking Query button.

Report screen after clicking Query button is as shown below



Software Management

Description

Software received along with various hardware devices are managed properly. Software type, hardware details and rack no are captured.

Input

Data Store:

tssg_software_details

Processing

After clicking Software Details link in the home page Software details Screen will be displayed. There user can enter the details of software such as media label, media location, software category etc.

Save

After entering the details of Software in the corresponding text fields, Save button is clicked to insert the record. If user has not entered the media label or if media label is not unique then a warning will be displayed as media label is Primary Key.

Query

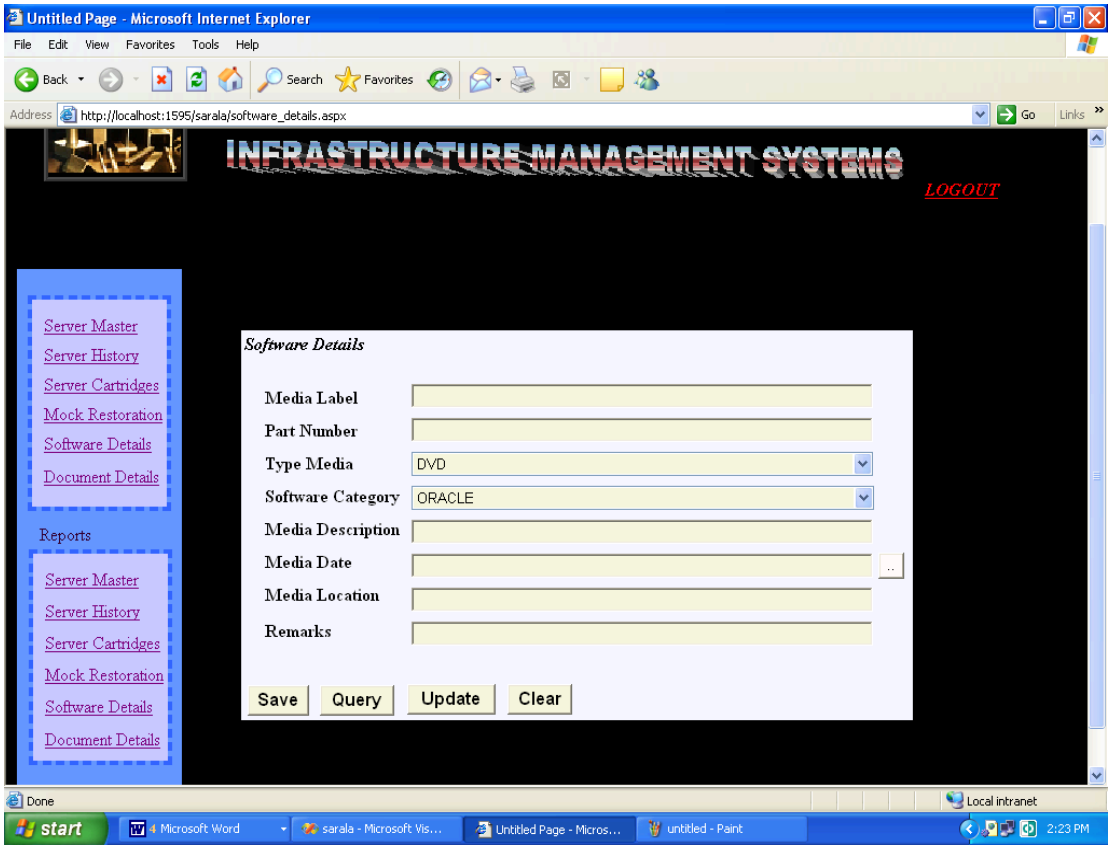
All the details of software record will be populated in the corresponding text fields after clicking Query button by entering media label in the corresponding text box. Media label field is deactivated after query button is clicked. Because user should not modify the media label

Update

Data is updated through the media label. User enters the media label and clicks Query button then corresponding record from the database is displayed in the text fields and if user wants to update the data, user can click Update button to update the record in the data base.

Clear

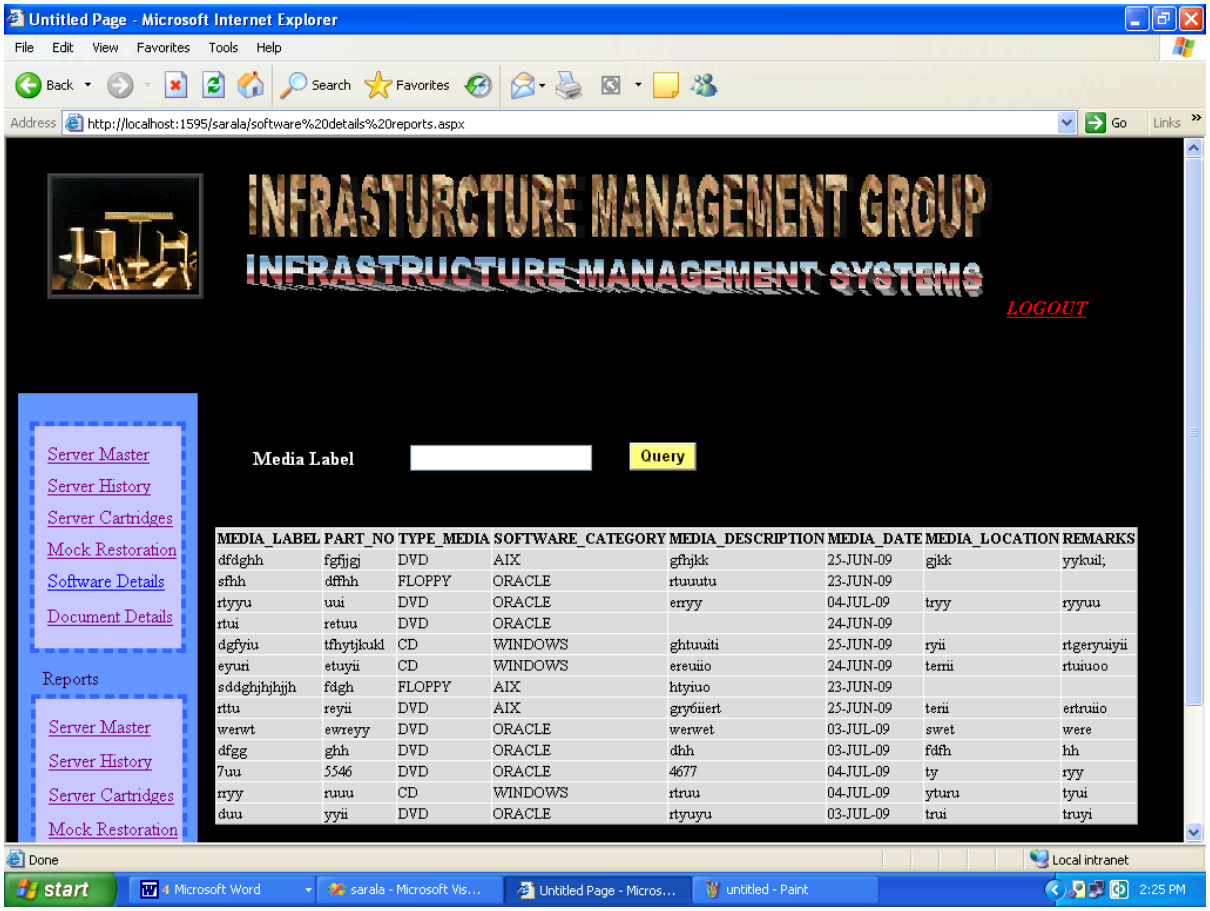
Clear button is clicked to erase the values in the text fields.


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/software_details.aspx
Go Links
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Software Details
Media Label
Part Number
Type Media
DVD
Software Category
ORACLE
Media Description
Media Date
Media Location
Remarks
Save
Query
Update
Clear
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:23 PM

Software Details Reports:

To display all the details of software table user has to click the software details reports link button, then software details reports screen will be displayed. There by clicking Query button all the record of software details table will be displayed. If user wants to see particular record of software details then he has to enter the media label field before clicking Query button.

Report screen after clicking Query button is as shown below


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/software%20details%20reports.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Mock Restoration
Media Label
Query
MEDIA_LABEL PART_NO TYPE_MEDIA SOFTWARE_CATEGORY MEDIA_DESCRIPTION MEDIA_DATE MEDIA_LOCATION REMARKS
dfdghh fgfjjgj DVD AIX gfhjkk 25-JUN-09 gjkk yykuil;
sfhh dffhh FLOPPY ORACLE rtuuutu 23-JUN-09
rtyyu uui DVD ORACLE erryy 04-JUL-09 tryy ryyuu
rtui retuu DVD ORACLE 24-JUN-09
dgfyiu tfhytjkukl CD WINDOWS ghtuuiti 25-JUN-09 ryii rtgeryuiyii
eyuri etuyii CD WINDOWS ereuiio 24-JUN-09 terrii rtuiuoo
sddghjhjhjjh fdgh FLOPPY AIX htyiuo 23-JUN-09
rttu reyii DVD AIX gry6iiert 25-JUN-09 terii ertruiio
werwt ewreyy DVD ORACLE werwet 03-JUL-09 swet were
dfgg ghh DVD ORACLE dhh 03-JUL-09 fdfh hh
7uu 5546 DVD ORACLE 4677 04-JUL-09 ty ryy
rryy ruuu CD WINDOWS rtruu 04-JUL-09 yturu tyui
duu yyii DVD ORACLE rtyuyu 03-JUL-09 trui truyi
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:25 PM

Document Management

Description

Various documents received along with servers are managed properly. Details of

the documents and their storage details are captured.

Input

Data Store:

tssg_document_details

Processing

After clicking Document Details link in the home page Document details Screen will be displayed. There user can enter the details of Document such as Document label, Document location, Document category etc.

Save

After entering the details of Document in the corresponding text fields, Save button is clicked to insert the record. If user has not entered the Document label or if Document label is not unique then a warning will be displayed as Document label is Primary Key.

Query

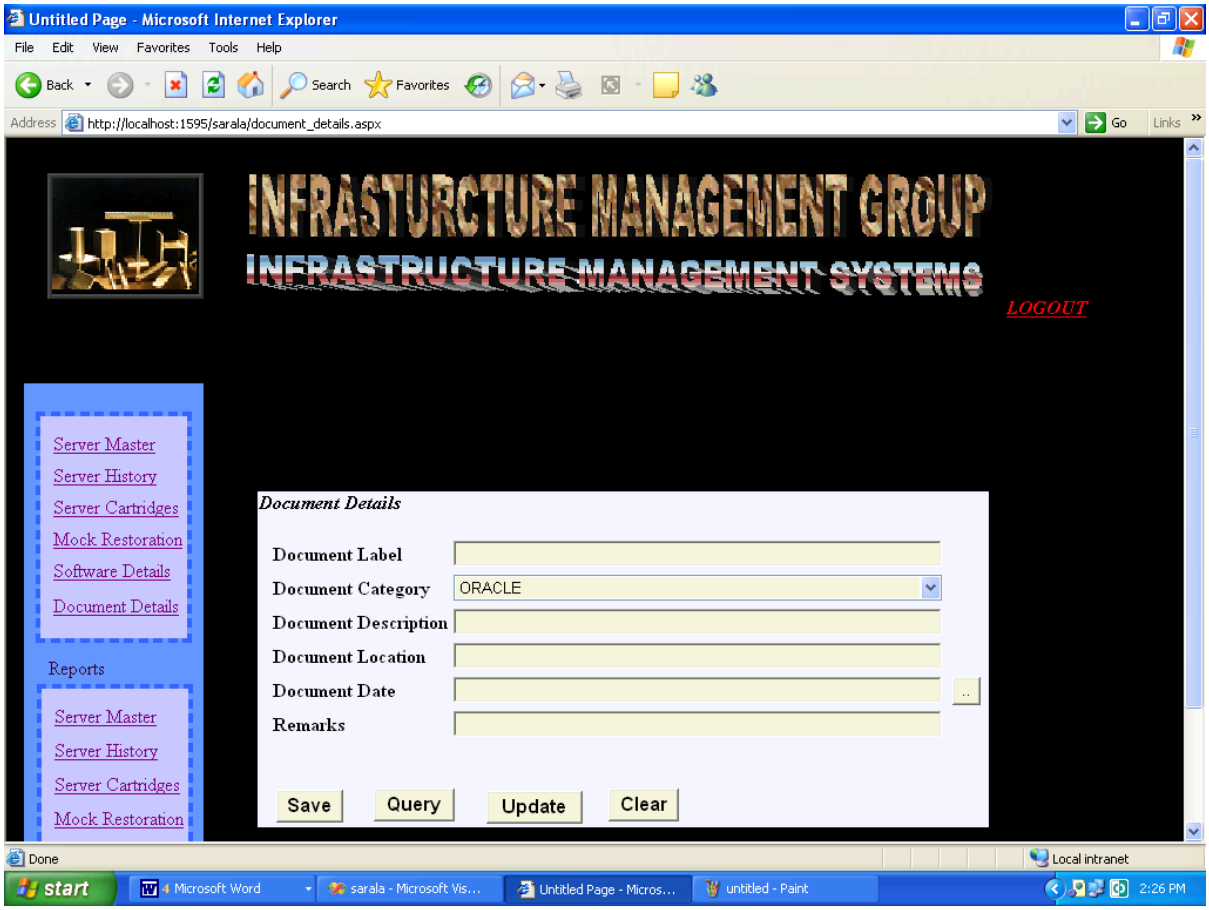
All the details of Document record will be populated in the corresponding text fields after clicking Query button by entering Document label in the corresponding text box. Document label field is deactivated after query button is clicked. Because user should not modify the Document label

Update

Data is updated through the document label. User enters the document label and clicks Query button then corresponding record from the database is displayed in the text fields and if user wants to update the data, user can click Update button to update the record in the data base.

Clear

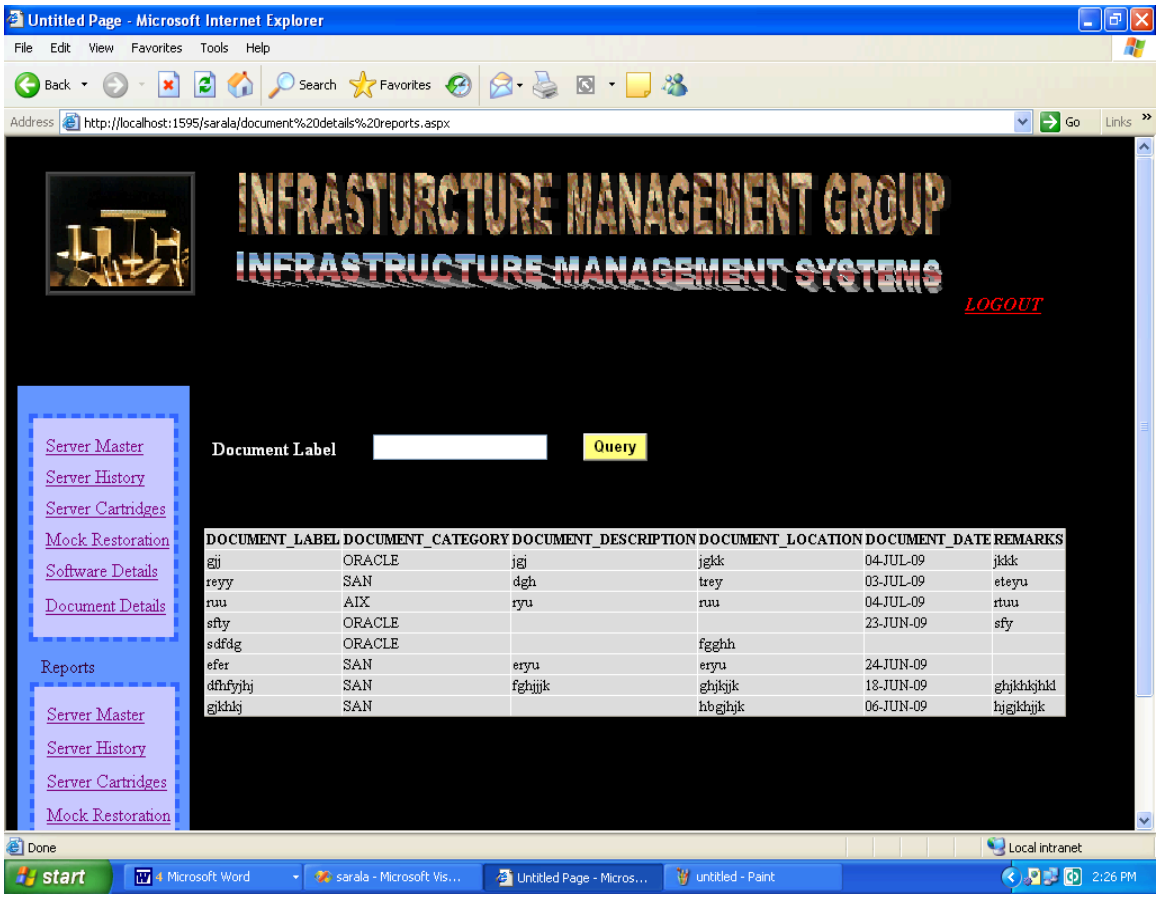
Clear button is clicked to erase the values in the text fields.


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/document_details.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Mock Restoration
Document Details
Document Label
Document Category
ORACLE
Document Description
Document Location
Document Date
Remarks
Save
Query
Update
Clear
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:26 PM

Document Details Reports:

To display all the details of document table user has to click the document details reports link button, then document details reports screen will be displayed. There by clicking Query button all the record of document details table will be displayed. If user wants to see particular record of document details then he has to enter the document label field before clicking Query button.

Report screen after clicking Query button is as shown below


Untitled Page - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://localhost:1595/sarala/document%20details%20reports.aspx
Go Links
INFRASTURCTURE MANAGEMENT GROUP
INFRASTRUCTURE MANAGEMENT SYSTEMS
LOGOUT
Server Master
Server History
Server Cartridges
Mock Restoration
Software Details
Document Details
Reports
Server Master
Server History
Server Cartridges
Mock Restoration
Document Label
Query
DOCUMENT_LABEL DOCUMENT_CATEGORY DOCUMENT_DESCRIPTION DOCUMENT_LOCATION DOCUMENT_DATE REMARKS
gjj ORACLE jgj jgkk 04-JUL-09 jkkk
reyy SAN dgh trey 03-JUL-09 eteyu
ruu AIX ryu ruu 04-JUL-09 rtuu
sfty ORACLE 23-JUN-09 sfy
sdfdg ORACLE fgghh
efer SAN eryu eryu 24-JUN-09
dfhfyjhj SAN fghjjjk ghjkjjk 18-JUN-09 ghjkhkjhkl
gjkhkj SAN hbgjhjk 06-JUN-09 hjgjkhjjk
Done
Local intranet
start
Microsoft Word
sarala - Microsoft Vis...
Untitled Page - Micros...
untitled - Paint
2:26 PM

Non functional Requirements

The system will generally be available on 24 X 7 basis.
There will be no security features that will be explicitly built-into the system. The solution will leverage on the existing security mechanisms available in CUI.

Specific Requirements

NA

Assumptions/Dependencies/Limitations

NA

Acceptance Criteria

The IT Department shall accept the Servers management System on successful working of the all the features without any bugs reported in High, Medium or Low severity.

Acronyms and Glossary

Acronym	Abbreviation
IMS	Infrastructure Management Systems

CONCLUSION

The Project "Infrastructure Management System for Visakhapatnam steel plant" was successfully concluded by meeting the requirements specified by the software requirement document.

After careful verification and validation procedures, it has been confirmed that the system satisfies its user and system requirement.

Presently this application is for server Management and cartridge management. The current system can further be enhanced by extending this application to all infrastructure management in the department.

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