**A PROJECT REPORT ON**

**CLINICARE**

**(A Primary Health Care Web Application)**

**Submitted By**

**TEAM BUSYBEES**

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**Submitted in the fulfillment of the requirements of the Award of**

**Diploma in Information Technology**



**NETTUR TECHNICAL TRAINING FOUNDATION**

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**Bangalore-560 100**

**CERTIFICATE**

This is to certify that the project work titled “**CLINICARE**” has been successfully completed in the fulfillment of the award of Diploma in Information technology offered by NTTF during the academic year 2014-2017 and that this report is documentation of the same.

Project Guide Course In-charge Principal

Name of the Examiner’s Signature with date

1.

2.

**SYNOPSIS**

**Introduction:**

In today's World We have many tourists visiting our cities and also there are people coming for work in Our City . There happens some emergency situations where these people may need the Medical Assistance .Our CLINICARE is the best solution for such people in Bangalore who need immediate Medical Guidance.

The CLINICARE is an On line Medical Assistance where people can gather information about the Medical Supports near them.

**ACKNOWLEDGEMENT**

An endeavor of this magnitude is never accomplished in isolation. We are deeply indebted to a number of people notably :

First of all we are thanked to **Mr. Giridharan R**, Principal NTTF Training Center NEC-Bangalore and **Mr. Palani Kumar**, Vice-Principal NTTF Training center NEC-Bangalore for being a source of inspiration throughout our project.

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We are indebted and grateful to **Mrs. Rijina P**, Our Project In-charge, Our Project Guide **Mrs. Prabha** and **Mr. Shakeel**, Our Subject-In charge , guide for valuable guidance at each and every stage of Our Project.

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Finally we thank one and all who helped us in directly and indirectly for the completion of the project.

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**1 INTRODUCTION**

**1.1 TITLE OF THE PROJECT :** CLINICARE

**1.2 GROUP NAME : BUSYBEES**

**1.3 GROUP LEADER :**

**1.4 GROUP MEMBERS :**

Vikas P (NEC 09 14 050)

Vishnu K N (NEC09 14 051)

**1.5 S/W & H/W CONFIGURATION**

**SOFTWARE REQUIREMENTS:**

Front End - JSP, HTML5, CSS

Database - MySQL

Scripting language - J query, Bootstrap

Web Server - Apache-tomcat Server 6.0

Operating system - Windows-8.1or

Above

IDE - Net Beans 8.1,

Notepad++

Third Party Software - Twilio SMS Gateway

Social Services - G mail Services for sending mail

Browsers - IE8/8+,Chrome15+,

Safari 4+,

Mozilla Firefox

**HARDWARE REQUIIREMENTS:**

Processor : Intel i3 and above

RAM : 2 GB and above

Hard Disk : 500 GB and above

**1.6 TECHNOLOGY USED**

J2EE, JSP, HTML5, MYSQL

**1.7 PROJECT DESCRIPTION**

The Project CLINICARE is a complete medical assistance where the user can approach our web application to enroll in complete Medical Guidance in the Cities of Bangalore .

The Main Objective of our CLINICARE is to guide the people who are new to the city to any medical centers in case of emergency .Also people will get information about certain medical camps conducts by charitable, hospitals etc.

**1.8 PROJECT MODULES**

The modules present in CLINICARE are:

*ADMIN :*

LOGIN

VERIFY DOCTOR AUTHENTICATION

EDIT/UPDATE MED CAMPS

EDIT/UPDATE BLOOD DONORS

LOG OUT

*USER :*

TAKE DOCTOR APPOINTMENTS

VIEW BLOOD DONORS

ADD BLOOD DONORS

VIEW SERVICES

VIEW MED CAMPS

INFORM MED CAMPS

*DOCTOR :*

LOGIN

VIEW APPOINTMENTS

UPDATE LEAVE

LOGOUT

**Module Description:**

APPOINTMENTS:

In this module the user can take the doctor's appointment near by their location. To take the appointment the user should fill up and submit the Registration form with their mobile number and when they finish their appointment , a message with the time and schedule of the appointment will be sent to their mobile phone.

BLOOD BANK:

This module gives the detail about the blood donors. The users can view the nearest blood banks and the blood donors by selecting the location and the blood group. The module also has a registration for the users who are willing to donate their blood.

DOCTOR'S LOGIN:

This module is for Doctors. The Doctor should Login with the login credentials issued by the Admin . Once they login they can View the Appointments of the day, the doctors can update their leaves and Update and Edit their records.

SERVICES :

The module is about the details of Medical Stores and the Laboratories near your location .Users can also find the Ambulance Service in this Module.

MEDICAL CAMPS :

Users can see the details of free check up and medical camps in the City. The Module also has the facility to upload or inform details of any upcoming Medical camps.

**JSP:**

* JSP pages are components in a web or J2EE application that consists of HTML and Java code
* Code in a JSP can access data across the entire web application and can use server-side resources such as databases, directories, and other application components.
* JSP pages are dynamic because they can contain Java code, which can process the request and tailor the response based on the request. All the power of Java sits behind every JSP page.
* JSP is easy to learn and allows developers to quickly produce websites and application in an open and standard way. JSP is based on Java, an object oriented language. JSP offers a robust platform for web development.

Main reasons to use JSP:

1. Multi-Platform.
2. Component reuse by using Java Beans and EJB.
3. Advantages of Java.

**MySQL:**

MySQL is a database which helps us to store data in large amount and retrieve when required. It is major used for the server side storage in most of the project which also take cares with the security by login.

This also easy to create, update, delete, insert and perform other operations when required easily. The database created can be easily taken as back up and restored in any place again and executed. Backup of information can be taken in the MySQL.

The Oracle relational database management system (RDBMS) provides an open, comprehensive, integrated approach to information management.

This is accomplished while delivering high performance. At the same time, it prevents unauthorized access and provides efficient solutions for failure recovery.

**TESTING:**

Testing must be done with proper planning as the system testing is very expensive for large systems, huge amount has spent for testing.

Test planning is concerned with setting out standards for the testing process, rather than describing product tests. Error may begin to occur the very inspection of the process whether the objectives may be imperfectly specified, as well as later design and development stages.

After the source was ready, the application was tested to uncover as many errors as possible. Tests were conducted to:

* Examine the internal logic of the application components/Elements.
* Examine the input and output domains of the program to Uncover errors in the program functions and performance.

**2. SOFTWARE REQUIREMENT SPECIFICATION (SRS)**

**Advantages :**

* Users can easily locate clinics and take the doctor appointment
* Medical assistance in major locations
* Information of Medical camps
* Users can search and find blood donors in their location

**Purpose :**

CliniCare is a web application for the

people to locate and find out the nearest clinics,blood donors and medical stores and laboratories

**Scope :**

There are no existing application like

clinicare .The only existing applications are

hospital management system, which can

only give access to the availability with in

that hospital.

**Drawbacks :**

* In such hospital management systems, users can only take appointment for the doctors available in that particular hospital .
* Medical details will be limited within the particular hospital .

**3. SYSTEM DESIGN**

3.1 CONTROL FLOW DIAGRAM (CFD)

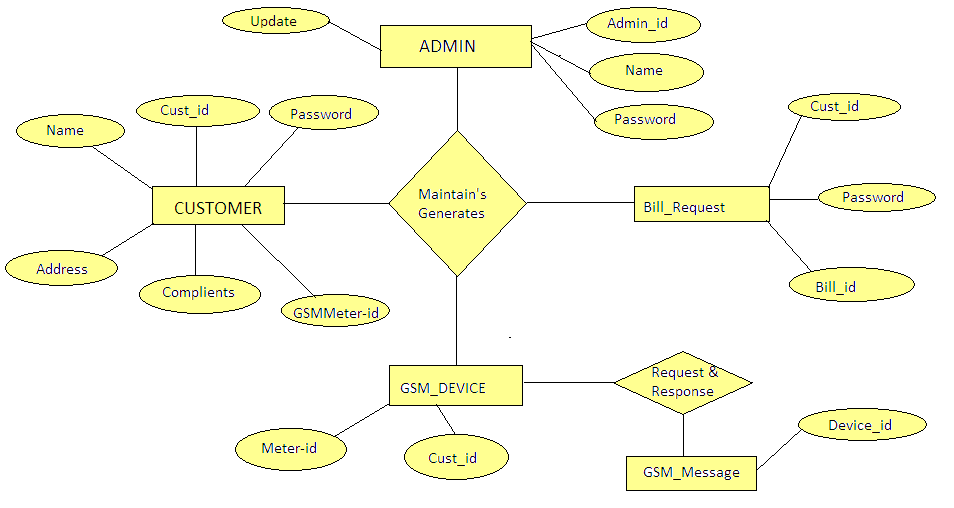
**3.2 DATA FLOW DIAGRAM (DFD)**

USER DFD

Super Admin DFD

ADMIN DFD

**3.3 ENTITY RELATIONSHIP DIAGRAM**



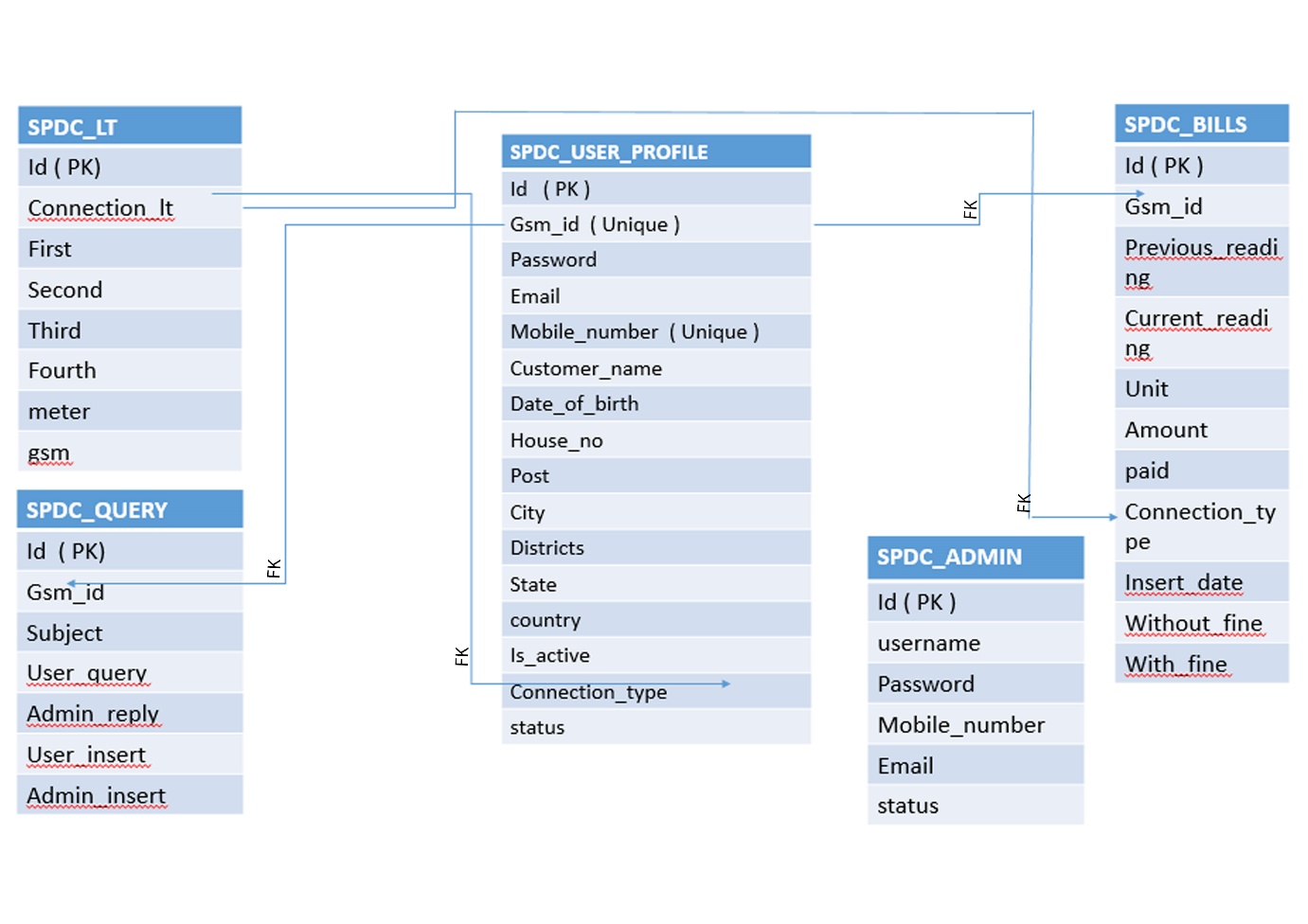
**3.4 USE CASE DIAGRAM:**

USER DIAGRAM :

ADMIN DIAGRAM :

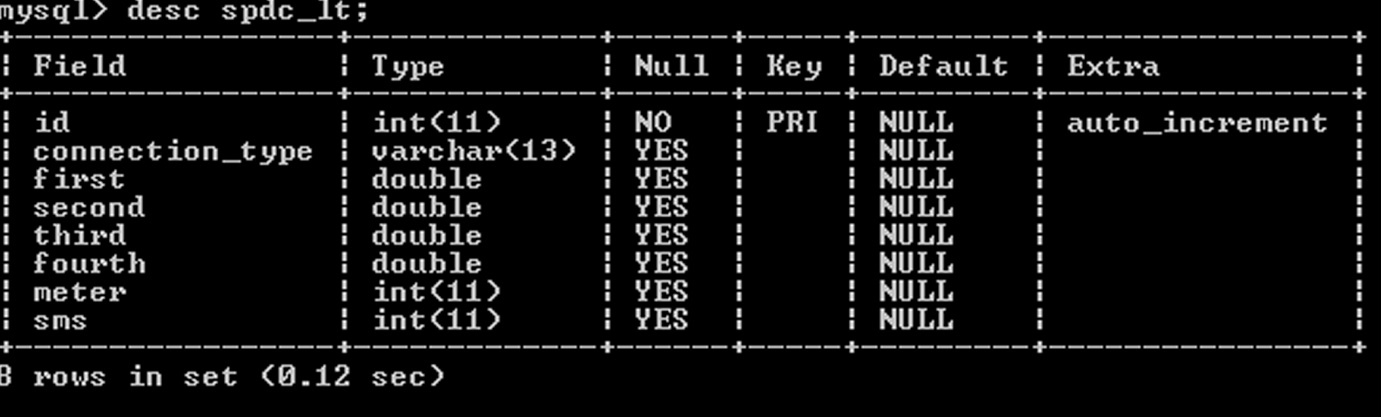
DOCTOR DIAGRAM :

* 1. DATABASE DESIGN

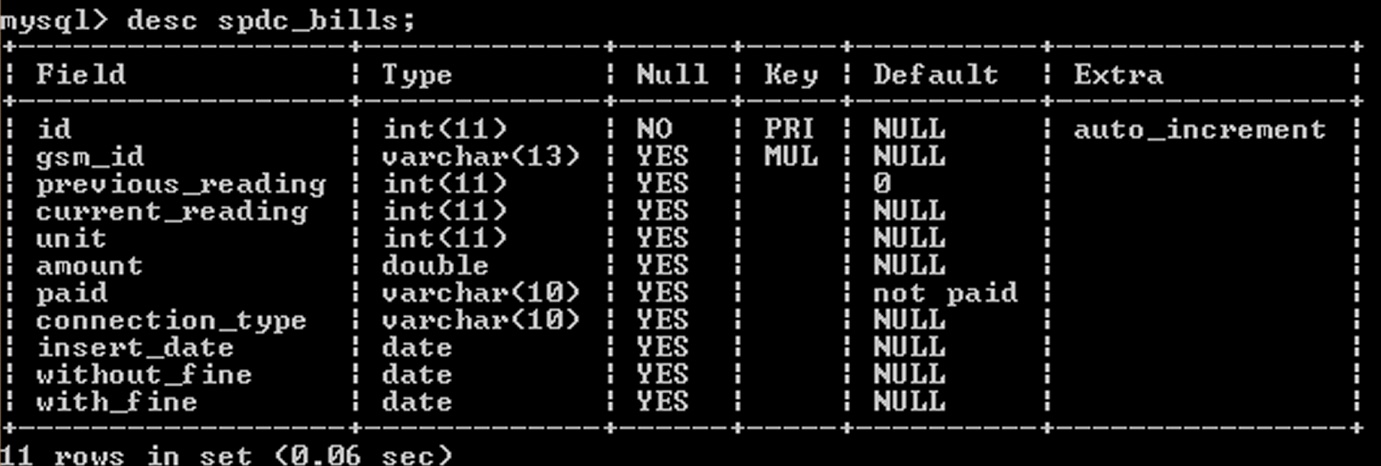


* 1. **DATA DICTIONARY**

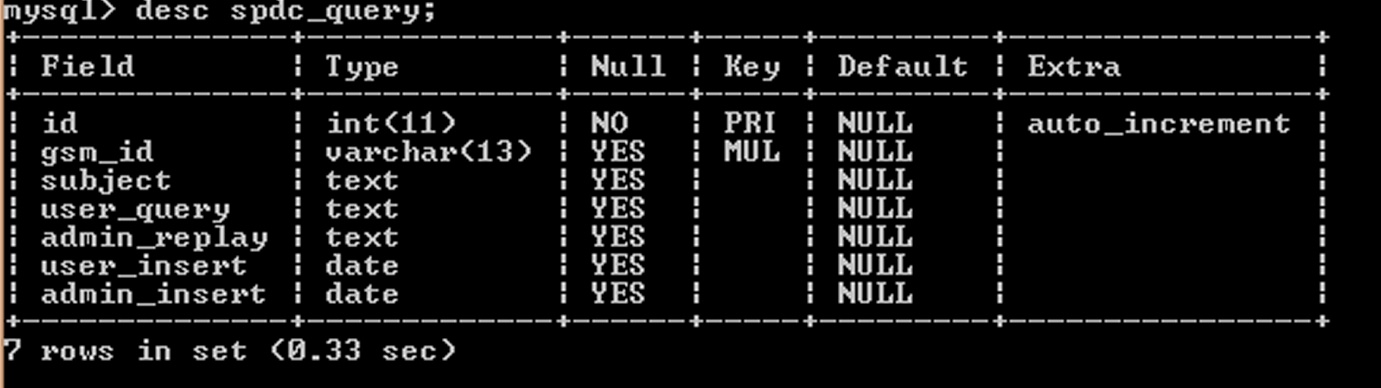
SPDC\_LT TABLE



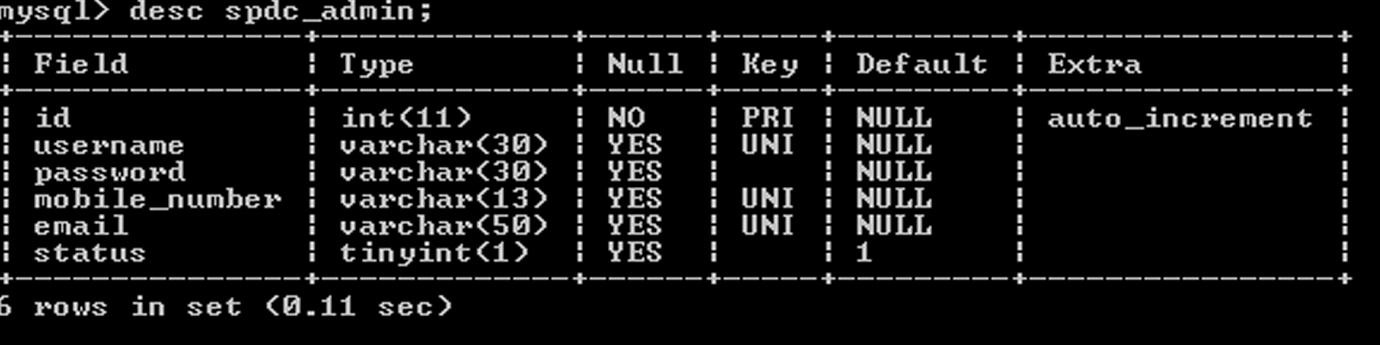
SPDC\_BILLS TABLE



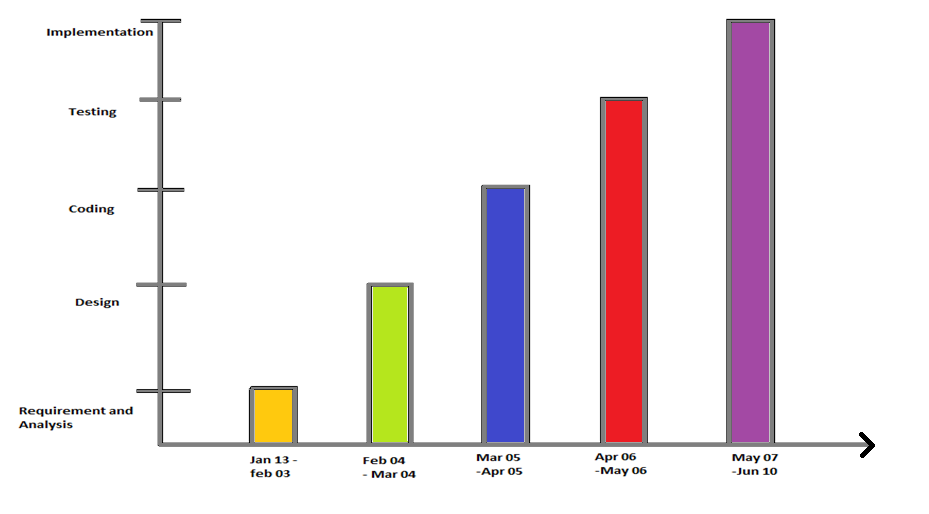
SPDC\_ QUERY TABLE



SPDC\_ ADMIN TABLE



**3.7 GANTT CHART**



**4. SNAPSHOTS**

**5.SOURCE CODE**

1. Main Web Pages
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**6.TEST PLAN**

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6.1 Suspension Criteria

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1. Test Plan Identifier

CLINICARE

2. Introduction

The main purpose of preparing this document “Test Plan” is to test the critical use cases and the functionalities that outline the project “CLINICARE”.

The following sections will detail the item that would be tested during the testing process, an overview will present the portions of the software that require testing and a test plan of how these features will be tested. The document will address the objectives, the scope of the document and the different testing approaches used.

2.1 Objectives

The following system test plan for the “CLINICARE” will support the following objectives:

* Identify the features of the project that need to be tested.
* Define the testing approaches that will be used during testing.
* Define the pass/fail criteria for each item that would be tested.
* Define the suspension criteria and resumption technique for the same.

2.2 Scope

The document “Test Plan” will cover all the items that need to be tested and all the test approaches involved. It will also define the pass/fail criteria for each of the item being tested.

3. Test Items

The following items will be tested during the test process:

* Registration
* Login
* Forgot password
* Change password

4. Approach

The application will be tested with all the possible inputs and would be checked for all the possible outputs. A list of test cases will be prepared for testing the application. The tester would perform black box testing i.e. the functional/operational testing on all the items that need to be tested. Each item would contain one or more test cases, the types of testing and critical use-cases acceptance by the system. The tester would give in the inputs to the system, and then verify that the output matches the desired output outline in the document.

4.1 Unit Testing:

In this particular testing, each module is tested alone in an attempt to discover any errors that may be present in code, which means all executable source code is subject to test. The test would include all the classes, and the forms in the code for testing. Particular advantages and disadvantages of unit testing are: Advantage: that the total system is subject to testing and each module will thus be tested. Possible Disadvantage: Because of the system size, it is possible some errors might be missed and not identifies.

4.2 Integration Testing:

The integration testing will consist of combined parts of an application to determine if they function together correctly and to see whether or not the main requirements of the system are achieved. This type of testing is specifically relevant to client-server and distributed systems. Thus all the modules involved in the project will be integrated together and tested accordingly as a whole system.

4.3 System Testing:

The system testing is performed to test the entire system and to see whether all the critical requirements are satisfied or not. The system would be checked with multiple user’s login in at the same time, so the performance is also checked. The test cases used in here, will be a combination of the ones from unit testing and the most important part of testing will be the preservation of data.

4.4 Performance Testing:

Performance of the system depends upon the number of users using the system at a time, and how well the system would be able to respond to the customer’s queries. The present system would be compared to that of already existing ones and the results will be reported.

4.5 Regression Testing

This type of testing means that several iterations of the system test will be done in order to test program modifications made during the system test period. A regression test will be performed on each of the new version of the system to detect any unexpected impact resulting from program modification. The regression test will be done by running all of the tests on the newer version of the system that was originally run on the previous version and then comparing the new results with that of the old ones.

4.6 Manual Testing:

Manual testing is also done so as to find undiscovered or unexpected errors in the system.

5. Item Pass/Fail Criteria:

The test cases executed on “CLINICARE” passes if it meets the specific requirements and if the results match that of the expected outputs. The items is said to fail the system if the results that the test case produces does not match the desired result. Test cases are evaluated independent of one another, having no effects on the evaluation of the other test cases.

6. Suspension Criteria or Resumption Requirements

6.1 Resumption Requirements

The test cases that are not dependent on the bug found will be executed along with fixing the bug, and the testing for the failed test case will resume when the solution for fixing the bug has been found and the bug has been resolved.

6.2 Suspension Criteria

During testing if a test case fails, then testing will be suspended for all the related modules of the test case. A log will be prepared where in the error will be reported along with the description.

7. Test Deliverables

The following documents will be prepared at the end of the testing:

* Test Plan
* Test cases
* Test Log
* Test Summary Report

**TEST CASE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Module: |  | Login |  |  |  |
| Test objective: |  | To check whether the entered username and password is valid or invalid |  |  |  |
| Test case no: |  | Test – 1 |  |  |  |
| Test Case id: | Test Case Description | Steps | Input | Expected Result | Actual Result |
| 1.1 | check the login page | Enter valid username & press login button | username = user123 | should display warning message "please enter valid username & password | warning message displayed |
| 1.2 | check the login page | Enter valid password & press login button | password = password12 | should display warning message "please enter valid username & password | warning message displayed |
| 1.3 | check the login page | Enter valid username and invalid password and press login button | username = user123 password = 123 | should display warning message "please enter valid username & password | warning message displayed |
| 1.4 | check the login page | Enter invalid username and valid password and press login button | username = 123 password = password12 | should display warning message "please enter valid username & password | warning message displayed |
| 1.5 | check the login page | Enter invalid username and invalid password and press login button | username = 123 password = pass12 | should display warning message "please enter valid username & password | warning message displayed |
| 1.6 | check the login page | Enter Blank username and Blank password and press login button | username = " " password = " " | should display warning message "please enter valid username & password | warning message displayed |
| 1.7 | check the login page | Enter valid username and valid password and press login button | username = user123 password = password12 | Should navigate to the next page | Navigated to the next page |

**TEST CASE 2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Module: |  | Registration |  |  |  |
| Test objective: |  | Registering the application for Southern Power Distribution Company |  |  |  |
| Test case no: |  | Test – 2 |  |  |  |
| Test Case id: | Test Case Description | Steps | Input | Expected Result | Actual Result |
| 2.1 | check the registration form | Enter valid gsm-id and press register | Gsm-id =12345 | should display warning message "please enter valid gsm-id & mobile no” | warning message displayed |
| 2.2 | check the registration form | Enter valid mobile no and press register | Mobile no=987654321 | should display warning message "please enter valid gsm-id & mobile no” | warning message displayed |
| 2.3 | check the registration form | Enter valid gsm-id and invalid mobile no and press register | Gsm-id=12345  Mobile no=123456789 | should display warning message "please enter valid gsm-id & mobile no” | warning message displayed |
| 2.4 | check the registration form | Enter invalid gsm-id and valid mobile no and press register | Gsm-id=54321  Mobile no=987654321 | should display warning message "please enter valid gsm-id & mobile no” | warning message displayed |
| 2.5 | check the registration form | Enter invalid gsm-id and invalid mobile no and press register | Gsm-id=54321  Mobile no=123456789 | should display warning message "please enter valid gsm-id & mobile no” | warning message displayed |
| 2.6 | check the registration form | Enter blank gsm-id and blank mobile no and press register | Gsm-id=” “  Mobile no=” “ | should display warning message "please enter valid gsm-id & mobile no” | warning message displayed |
| 2.7 | check the registration form | Enter valid gsm-id and valid mobile no and press register | Gsm-id=12345  Mobile no=987654321 | Should navigate to next page | Navigated to next page |

**TEST CASE 3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MODULE: |  | ADMIN ACCOUNT CREATION |  |  |  |
| Test  Objective: |  | Creating Account for the Admin |  |  |  |
| Test case no: |  | Test-3 |  |  |  |
| TESTCASEID | TESTCASE  DESCRIPTION | STEPS | INPUT DATA | EXPECTED  RESULT | ACTUAL  RESULT |
| 3.1 | Check the Create Account page | Enter  valid  User Name:  valid  MobileNo:  valid  E-mail :  Press Create button | UserName:  “ Archana ”  MobileNo :  “+918281424452”  E-mail :  “archana10@gmail.com ” | Should  Display  Message  “Account created sucessfully” | “Account created sucessfully”  Message  displayed |
| 3.2 | Check the Create Account page | Enter  invalid  User Name:  Press Create button | UserName:  “ adm” | Should Display  Warning  Message  “invalid UserName” | Warning Message  displayed |
| 3.3 | Check the Create Account page | Enter  blank  User Name:  Press Create button | User Name:  “ ” | Should Display  Warning  Message  “invalid User Name” | Warning Message  displayed |
| 3.4 | Check the Create Account page | Enter invalid  E-mail :  Press Create button | E-mail :  “ar#57@gmail.com” | Should Display  Warning  Message  “invalid E-mail” | Warning Message  displayed |
| 3.5 | Check the Create Account page | Enter blank  E-mail :  Press Create button | E-mail :  “ ” | Should Display  Warning  Message  “invalid E-mail” | Warning Message  displayed |
| 3.6 | Check the Create Account page | Enter invalid  Mobile No:  Press Create button | UserName:  “ Archana”  MobileNo :  “+9124452” | Should Display  Warning  Message  “invalid MobileNo” | Warning Message  displayed |
| 3.7 | Check the Create Account page | Enter blank  Mobile No:  Press Create button | Mobile No :  “ ” | Should Display  Warning  Message  “invalid Mobile No” | Warning Message  displayed |

**BUG REPORT**

|  |  |  |  |
| --- | --- | --- | --- |
| **Bug ID** | 1 | | |
| **Originator** | Jishnunand P K | Email: | Phone: |
| **Submit Date** | 25-06-2015 | | |
| **Summary** | Table got hidden inside the frame | | |
| **Severity** | [normal] | | |
| **Product** | Website | | |
| **Component** | Not applicable | | |
| **Version** | 1.5 | | |
| **Platform** | [PC ] | | |
| **OS** | [Windows] | | |
| **Browser** | [Google Chrome] | | |
| **URL** | [http://localhost:8084/reg\_ver/selected.JSP](http://localhost:8084/reg_ver/selected.jsp) | | |

**Description**

A Table getting hidden when the screen resolution is set to 800x600.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bug ID** | 2 | | |
| **Originator** | Athun V M | Email: | Phone: |
| **Submit Date** | 10-04-2014 | | |
| **Summary** | Photo is not in the proper position | | |
| **Severity** | [major] | | |
| **Product** | Website | | |
| **Component** | Not applicable | | |
| **Version** | 1.5 | | |
| **Platform** | [PC ] | | |
| **OS** | [Windows] | | |
| **Browser** | [Google Chrome] | | |
| **URL** | [http://localhost:8084/card\_generate/genrate.JSP](http://localhost:8084/card_generate/genrate.jsp) | | |

**Description**

While printing the page the photo is misplaced.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bug ID** | 3 | | |
| **Originator** | Gayathri M | Email: | Phone: |
| **Submit Date** | 11-04-2014 | | |
| **Summary** | Company logo Not displaying | | |
| **Severity** | [major] | | |
| **Product** | Website | | |
| **Component** | Not applicable | | |
| **Version** | 1.5 | | |
| **Platform** | [PC ] | | |
| **OS** | [Windows] | | |
| **Browser** | [Google Chrome] | | |
| **URL** | [http://localhost:8084/card\_generate/genrate.JSP](http://localhost:8084/card_generate/genrate.jsp) | | |

**Description**

Company logo not displaying.

|  |  |  |  |
| --- | --- | --- | --- |
| **Bug ID** | 4 | | |
| **Originator** | Jeevanandam | Email: | Phone: |
| **Submit Date** | 16-04-2014 | | |
| **Summary** | Integer Textbox Contains String | | |
| **Severity** | [Critical] | | |
| **Product** | Website | | |
| **Component** | Not applicable | | |
| **Version** | 1.5 | | |
| **Platform** | [PC] | | |
| **OS** | [Windows] | | |
| **Browser** | [Google Chrome] | | |
| **URL** | [http://localhost:8084/ration/ration\_shop.JSP](http://localhost:8084/ration/ration_shop.jsp) | | |

**Description**

Integer text-box accepting String values

**TEST REPORT**

FUNCTIONAL TEST STATUS REPORT

This report will show the percentage of the functions which have been:

* Fully Tested
* Tested with open defects
* Not Tested

**FUTURE ENHANCEMENT:**

In future we wish to improvise the web application in various aspects:

1. Location tracking

2. On-line Pharmaceutical Delivery

3. Mobile Application using Xamerin

4. Medical Conference with Doctors

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1.JAVA-2 Complete-Reference

Author : Patric Norton & HerberltSchild

Publisher : Tata McGraw Hill

2.Java Server Pages

Author : James Good Will

Publisher : Techmedia

3.System Analysis & Designing

Author : James A. Senn

Publisher : Tata McGraw Hill

**CONCLUSION :**

A **clinic** is a health care facility that is primarily focused on the care of outpatients. Clinics can be privately operated or publicly managed and funded. They typically cover the primary health care needs of populations in local communities, in contrast to larger hospitals which offer specialized treatments and admit inpatients for overnight stays.

Our CLINICARE is a web page where people can find these Clinics and other medical Services in their location at any time through our web application.