Life Blood Contribution Using Android Application To Avoid Blood Donation Problems

S.Ramya, S.Kayathri, S.Meena

Abstract— The project “LIFE BLOOD CONTRIBUTION” is designed using Standard Android 4.0.3 platform. The platform used to develop the application is Eclipse IDE (Mars) with Java 1.6 Standard Edition. This project helps to maintain the details of the Blood Banks, Donor details, Blood donated details and Blood transaction details in full-fledged security. Unauthorized persons cannot access the data. In Blood donation, usually donor will donate the bloods at regular intervals to the Blood bank. Blood banks also collect the bloods from the volunteer by conducting the blood donating camps in various Organizations. The proposed system has the online facility with the involvements of Donor and the User. It does not need the direct communication between the user and the donor while compare to the existing system. Just seeking of application and requesting has been given to the user immediately with using their particular information. This project succeeds the Blood donation problems and it is playing a vital role and essence for the patients. In addition, the blood requested user’s location can also be viewed by the administrator using Latitude and Longitude. This web application contains the following modules. Admin Module, Blood Bank Module, Donor Registration Module, Blood Donate Entry Module, Blood Search Module and Blood request Module.

Index Terms: SPM, Storage, Hard disk, Performance

1 INTRODUCTION

To improve the efficiency in blood donation. To speed up the blood supply process through increasing the communication between donors and patients. To maintain the blood donate history of all the donors. To increase the efficiency in blood donation process. To speed up the communication between both donors and patients. To access the data from anywhere through the mobile. To generate report easily and to prepare more reports. To obtain reports can be obtained for all donors and blood groups quickly. To immediately prepare various reports. Footer. Click inside the text box to type the name of the journal the article is being submitted to and the manuscript identification number. Click the forward arrow in the pop-up tool bar to modify the header or footer on subsequent pages.

2 EXISTING SYSTEM

The existing system is offline. The donor details are managed through manual clerical work. Microsoft Excel is used to store the donor and blood provided information. It will take a huge amount of time for doing each and every activity and take more man power. In this the main drawback is if need to find a particular donor detail then we have to check all the records and it will take a long time. So, it is necessary to computerize this system.

Dis advantages
- Poor Availability Of Information
- High Barrier For Donor Involvement
- Poor Data Management

3 PROPOSED SYSTEM

The main objective Operating system is to provide efficient use of resources.

Advantages
- Reduce overload problem
- Increase the system speed

4 PROBLEM DEFINITION

This project helps to maintain the details of the Blood Banks, Donor details, Blood donated details and Blood transaction details in full-fledged security. Unauthorized persons cannot access the data. In Blood donation, usually donor will donate the bloods at regular intervals to the Blood bank. Blood banks also collect the bloods from the volunteer by conducting the blood donating camps in various Organizations.

5 OVERVIEW OF THE PROJECT

The project “LIFE BLOOD CONTRIBUTION” is designed using Standard Android platform. The platform used to develop the application is Eclipse IDE (Mars) with Java 1.6 Standard Edition. Blood banks also collect the bloods from the volunteer by conducting the blood donating camps in various Organizations. If particular blood is need for one patient, the blood should be collected from the blood banks or inviting the donor to the hospital.

6 MODULE DESCRIPTION

There are eight modules for Admin Module, Blood Bank Module, Donor Registration Module etc.

List of Modules
i. Admin Module
ii. Blood Bank Module
iii. Donor Registration Module
iv. Donor Login

Mrs.S.Ramya, ME, Working as an Assistant Professor in M.Kumarasamy College of Engineering in Master of Computer Applications. PH-8825453537. E-mail: ramyas.mca@mkce.ac.in

Mrs.S.Kayathri, MCA., Working as an Assistant Professor in M.Kumarasamy College of Engineering in Master of Computer Applications. PH-8973590176. E-mail: kayathris.mca@mkce.ac.in

Ms.S.Meena, MCA., Working as an Assistant Professor in M.Kumarasamy College of Engineering in Master of Computer Applications. PH-8825453537. E-mail: meenas.mca@mkce.ac.in

Ms.S.Ramy, ME., Working as an Assistant Professor in M.Kumarasamy College of Engineering in Master of Computer Applications. PH-8825453537. E-mail: ramyas.mca@mkce.ac.in
6.1 Admin Module

The Admin enters into the project by giving their username and password.

6.2 Blood Bank Module

The administrator adds new blood bank details such as blood bank id, name, address, city, phone, mobile, email id and remarks.

6.3 Donor Registration Module

The donor registers the information such as donor id, name, address, city, phone, mobile, blood group and password. The donor id and password is mailed to the donor’s mail id.

6.4 Donor Login

Through this module, the donor logs in using donor id and password.

6.5 Blood Donate Entry

The donors enters blood donates details such as donor id, date, units and details along with blood bank id through which blood is donated.

6.6 Blood Search Module

Any user can search for the required blood group along with donor location and mobile number. He can contact donor directly.

6.7 Blood Request Module

Any user who searched for required blood group clicks the links in the search report and enters into this form. Then all the personal details such as hospital name, contact address and remarks are added by them. The administrator views all the blood requests either requested date wise or all records.

6.8 Reports

The administrator views reports such as blood banks list, donors list, blood donate report and blood request information.

8 SYSTEM TESTING

After the source code has been completed, documented as related data structures. Completion of the project has to undergo testing and validation where there is subtitle and definite attempt to get errors. The project developer treats lightly, designing and execution of the project test that will demonstrates that the program works rather than uncovering errors, unfortunately errors will be present and if the project developer doesn’t found errors, the user will find out. The project developer is always responsible for testing the individual units i.e. modules of the program. In many cases, developer should conduct the integration testing.

9 UNIT TESTING

In this project, Donor details, Accessor, Blood Donates and Requests could be tested individually like given all the fields and can be updated for all criteria.

10 INTEGRATION TESTING

In this integration testing its done using the main module and based on the type of integration testing the subordinate tables and other criteria along with their path, is replaced one at a time with actual modules. In the project, after integrating the all modules of like Donor details, Accessor, Blood Donated and Request details modules are tested with their integration and that could integrated and manipulated with respect to the to and fro in between modules.

11 SYSTEM IMPLEMENTATION

When the initial design was done for the system, the client was consulted for the acceptance of the design so that further proceedings of the system development can be carried on. After the development of the system a demonstration was given to them about the working of the system. The aim of the system illustration was to
identify any malfunction of the system. After the management of the system was approved the system implemented in the concern, initially the system was run parallel with existing manual system. The system has been tested with live data and has proved to be error free and user friendly.

12 CONCLUSION

Very large date can be stored and also can be retrieved very easily. Speed and accuracy is maintained in the Blood donor with blood. Data is entered in formatted manner. The report can be taken in any format. Modification and maintenance can be made very easily

13 FUTURE ENHANCEMENT

The system is very flexible and user-friendly, so the maintenance based on the changing environment and requirements can be incorporated easily. Any changes that are likely to cause failures are prevented with security and preventive measures could be taken. The coding is done in understandable and flexible method program which helps easy changing. Since SQLite and Android are very flexible tools, user can easily incorporate any modular program in the application.

REFERENCES