

Life Blood Contribution

K.Kaviya¹, G.Arutperunjothi², N.Priyanka³, K.Divyadharshine⁴

^{1,2}Master of Computer Applications, M.KumarasamyCollegeofEngineering,

Email : kaviyakalidass1598@gmail.com¹, arutperunjothi0697@gmail.com²
kaviyakalidass1598@gmail.com³priyankanagul1998@gmail.com⁴

Abstract: *The project “LIFE BLOOD CONTRIBUTION” is designe dusing Standard Android 4.0.3platform.The platformused 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, Donordetails, 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 theBlood bank.Blood banks also collect the bloods from the volunteer by conducting the blood donating camps invariousOrganizations. The proposed system has the online facility with the involvements of Donor and the User. It does not need thedirect communication between the user and the donor while compare to the existing system. Just seeking of application andrequesting has been given to the user immediately with using their particular information.This project succeeds the Blooddonation problems and it is playing a vital role and essence for the patients. In addition, the blood requested user’s location canalso be viewed by the administrator using Latitude and Longitude. This web application contains the following modules.AdminModule, Blood Bank Module, Donor Registration Module, Blood Donate Entry Module, Blood Search Module and BloodrequestModule.*

Keywords—*Blood,Donate,Donor,Bank*

1. INTRODUCTION

To improve the efficiency inblooddonation. 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 any where through the mobile.To generatere port easily and to prepare more reports.To obtain reportscan be obtained for all donors and blood groups quickly.To immediately prepare various reports.

2. EXISTINGSYSTEM

The existing system is offline. The donor details are managedthrough manual clerical work. MicrosoftExcel is usedtostore the donor and blood provided information. It will take a huge amount of time for doing each and every activity andtake more man power. In this the main drawback is if need tofind a particular donor detail then we have to check all therecords and it will take a long time. So, it is necessary tocomputerizethissystem.

DISADVANTAGES

- PoorAvailabilityOfInformation
- HighBarrier ForDonorInvolvement
- PoorDataManagement

3. PROPOSEDSYSTEM

The main objective Operating system is toprovide efficientuseofresources.

ADVANTAGES

- Reduceoverloadproblem
- Increasethesystemspeer.
- Theresultisveryaccurate.

4. PROBLEMDEFINITION

This project helps to maintain the details of the Blood Banks,Donor details, Blood donated details and Blood transactiondetails in full fledged security. Unauthorized persons cannotaccess the data. In Blood donation, usually donor will donatethe bloods at regular intervals to the Blood bank.Blood banksalso collect the bloods from the volunteer by conducting theblooddonatingcampsinvarious Organizations.

5. OVERVIEWOFTHeproject

The project “LIFE BLOOD CONTRIBUTION” is designe Dusing Standard Android platform.The platfor mused to develop the application is Eclipse IDE (Mars) with Java 1.6Standard Edition.Bloodbanks also collectthe bloodsfromthe volunteerby conducting the blooddonating camps invarious Organizations. If particularblood is need for one patient,thebloodshouldbecollectedfromthebloodbanksorinvitingthedonortothehospital.

6.MODULEDESCRIPTION

ThereareeightmodulesforAdminModule,BloodBankModule,DonorRegistration Moduleetc..

MODULESUSED

- AdminModule
- BloodBankModule
- DonorRegistrationModule
- DonorLogin
- BloodDonateEntryModule
- Blood SearchModule
- BloodRequestModule
- ReportModule.

ADMINMODULE

The Admin enters into the project by giving their usernameandpassword.

BloodBankModule

The administrator adds new blood bank details such as bloodbank id, name, address, city, phone, mobile, email id andremarks

DonorRegistrationModule

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.

DonorLogin

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

BloodDonateEntry

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

7. 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 a definite attempt to get errors. The project developer treats lightly, designing and execution of the project test that will demonstrate that the program works rather than uncovering errors, unfortunately errors will be present and if the project developer doesn't find 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.

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.

INTEGRATION TESTING

In this integration testing it is 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 be integrated and manipulated with respect to the interface between modules.

8. 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

9. CONCLUSION

Very large data 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.

10. 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.

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