



MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

Government Polytechnic, Karad

A MICRO-PROJECT REPORT ON

Blood Bank Management System

UNDER THE SUBJECT

GUI Application Development Using VB.Net (22034)

SEMESTER – 4 OF COMPUTER ENGINEERING

ACADEMIC YEAR- 2022-23

SUBMITTED BY-

Pratik Pramod Shejwal (1251)

Yash Prashant Deshmukh (1252)

Riya Sunil Kharade (1261)

UNDER THE GUIDANCE OF

Mrs.S.V.Jadhav

Academic Year Guidance Of

Department Of Computer Engineering

CERTIFICATE

This is to certify that

ROLL NO	NAME	ENROLLMENT NO
1251	Pratik Pramod Shejwal	2100100053
1252	Yash Prashant Deshmukh	2100100052
1261	Riya Sunil Kharade	2100100063

Have successfully completed microproject on “Blood Bank Management System” Of the subject “GUI Application Development Using VB.Net (22034)_ prescribed by Maharashtra state board of technical education for 4th semester [Computer] during the year 2022-23.

Date: 04/05/2023

Place: Government Polytechnic, Karad

Name of the Guide

Mrs.S.V.Jadhav

Head of department

Prof. S.B Patil

ACKNOWLEDGEMENT

We take this opportunity to thank all those who have directly and indirectly inspired, directed and assisted us towards successful completion of this project report.

We express our sincere thanks to Prof. R. K. Patil and the Head of Department Prof. Patil S.B. for having us allowed to submit this report as a part of our academic learning.

We express our sincere thanks to Mrs.S.V.Jadhav Lecturer in “GUI Application Development Using VB.Net (22034)” “Department of Computer Engineering, Government Polytechnic, Karad for encouragement throughout the project report and guideline in designing and working out this project. We are also grateful to team of ‘**GUI Application Development Using VB.Net** ‘.

Place: Government Polytechnic, Karad.

Date: 04/05/2023

SUBMITTED BY-

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Microproject Report

Blood Bank Management System

➤ RATIONALE

In this micro-project, we created GUI application on topic of college management system. This application reduces human efforts for manually storing data. It will consist of student records, faculty records, department information, paying a fees User can also search a existing student or faculty. In this subject we created this GUI (Graphical User Interface) based so, we used various graphical controls in this. This Microproject help us to understand development of GUI Based applications.

❖ ADMIN LOGIN:

This feature allows login a new student to blood bank management system application. Information such as username, password, is stored in file.

❖ PATIENT MODULE:

We can add new patient in database by his name, bloodgroup, address, Phone no, and their patient id, also requirement of blood.

❖ DONOR MODULE:

We also stored information of donor . and also donor can donate blood Donor can select his blood group and he will able to donate blood.

❖ BLOOD TRANSFER MODULE:

In this module we can transfer blood to patient , and it will show patients blood-group and donors blood-group. Also it will show that blood is liableble or not.

❖ DASHBOARD

All information which is stored in database such as total number of patients, total number of donors, availability of each blood group.

➤ AIM/BENEFITS OF MICROPROJECT

- The aim of the project is to build an desktop application to reduce the manual work for managing the blood bank , donors, patients data.
- It will benefited us to manage all the donors, patients, related data in well-organized manner.
- It helps blood banks in various way, such as storing data, maintaining patients profiles, dashboard etc.

➤ COURSE OUTCOMES ACHIEVED

CO-a Use Visual Studio IDE to design application.

CO-b Develop GUI Application using Form Controls and its events.

CO-c Apply Object Oriented concepts in GUI Application.

CO-d Use Data access controls to store data in Database and retrieve

CO-e Use Data Binding in GUI Application

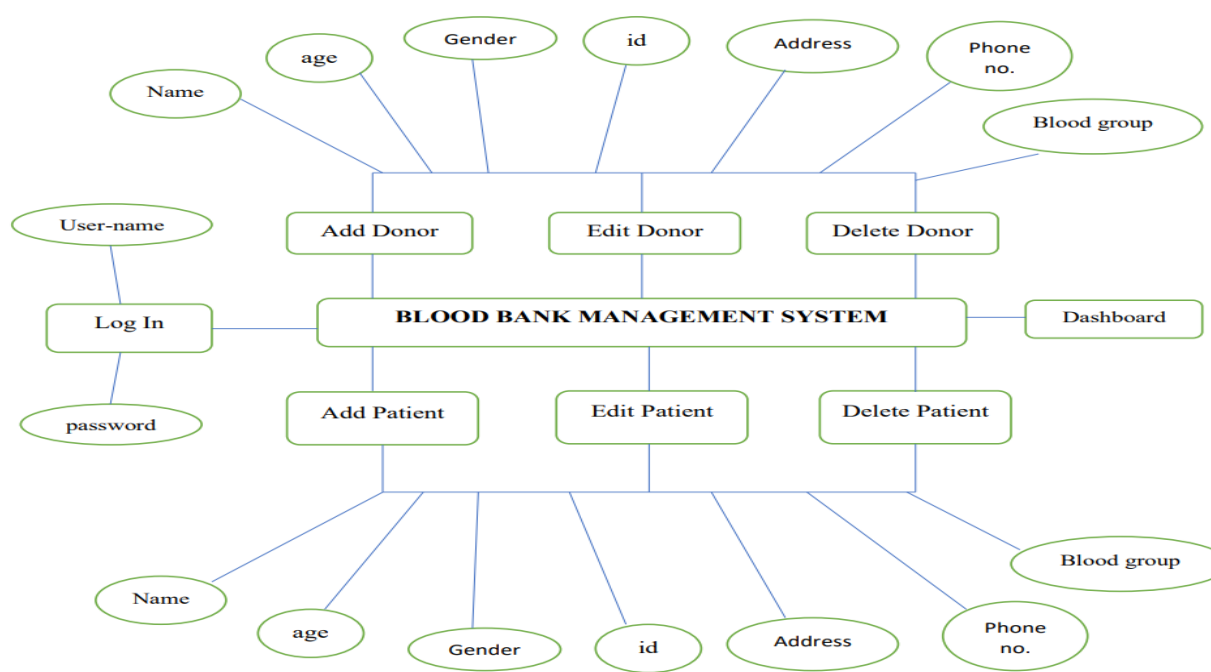
➤ LITERATURE REVIEW

A blood bank management system is a software solution that helps in managing and automating the various processes involved in blood donation, collection, storage, and distribution. It is a critical component in the healthcare industry as it ensures that blood transfusion services are provided in a timely, safe, and effective manner. blood bank by reducing the time required for donor registration, reducing the number of manual errors, and ensuring better inventory management.

Information acquired

1. [https://www.kvmt.co.in/syllabus/MS_MAIN%20\(2\).docx](https://www.kvmt.co.in/syllabus/MS_MAIN%20(2).docx)

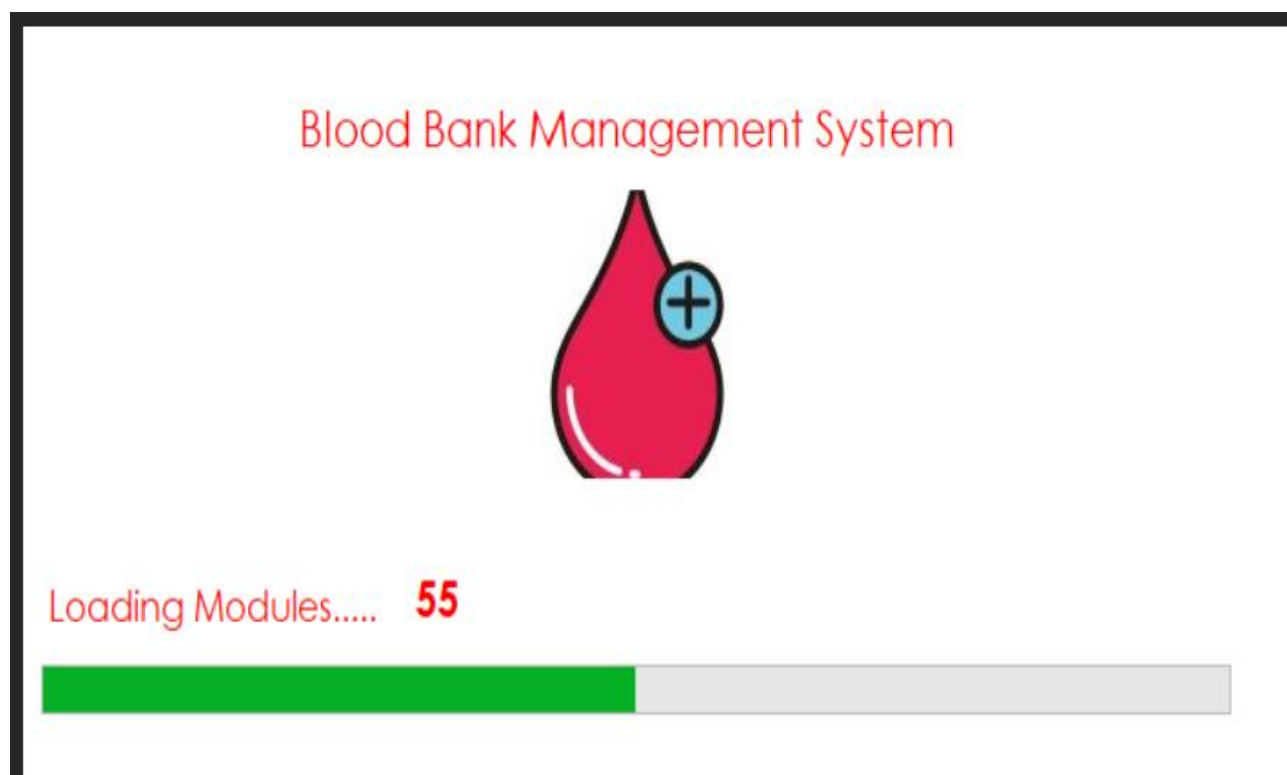
➤ PROPOSED METHODOLOGY




➤ RESOURCES REQUIRED

Sr. No.	Name of resources / material	Specification	Qty
1.	Computer system	Intel core i5, 16GB RAM, 256GB, Windows 10,64-operating system.	1
2.	Software	Visual Studio 2022, SQL server	1
3.	Office S/W Package	Microsoft word.	1


➤ OUTPUTS OF THE MICROPROJECT





Donate Blood
Save Lives

Blood Bank Management System



Username

Password

Login

[RESET](#)

Blood Bank Management System

- Donors
- Patients**
- Donate
- Blood Transfer
- DashBoard

Patient List

PId	PName	PAge	Pphone	PGen	PBgroup	PAddress
1	pratik	18	861255854	Male	A+	kudal
3	yash	78	123456	Male	A+	karad
4	Riya	19	986738	Female	O+	Khanapur
*						

Blood Bank Management System

- Donors**
- Patients
- Donate
- Blood Transfer
- DashBoard

Donors List

DId	DName	DAge	DGen	DPhone	DBGroup	DAdd
3	govind	18	Male	8459707528	O+	Address
5	suresh	25	Male	8261473899	AB-	karad
*						

Blood Bank Management System

Donors
Patients
Donate
Blood Transfer
DashBoard

Blood Transfer

Name

Blood Group

3

yash

A+

No Blood Available

Transfer

Blood Bank Management System

Donors
Patients
Donate
Blood Transfer
DashBoard

Blood Stock

Donor List

	Id	BGroup	BStock
▶	1	A+	0
	2	A-	0
	3	AB+	0
	4	AB-	0
	5	B+	0
	6	O+	1
	7	O-	0
*			

	DName	DBGroup
▶	govind	O+
	suresh	AB-
*		

Name

Blood Group

nirmal

O+


Donate

Blood Bank Management System

Donors
Patients
Donate
Blood Transfer
DashBoard


Analytics

Donors




2

Patients



4

Transfer



0

➤ **SKILL DEVELOPED**

- ✚ Technical Skills
- ✚ Communication Skills
- ✚ Problem Solving Skills
- ✚ Decision Making Skills
- ✚ Leadership Skills
- ✚ Performance Skills
- ❖ Team Building Skills
- ✚ Time management Skills:

➤ **APPLICATION OF THIS MICROPROJECT**

1. School/Colleges for Practicals
2. Blood Bank
3. Laboratories

➤ **GROUP DETAILS:**

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