Object Oriented Programing

Project Report

Blood Donation System

**Project Detail:**

This project will contain filing and OOP concept, with this system we can find out how many people have donated blood and how many people do have blood, It will also contain all the information of the donor and patient. We can also find about how many bag of blood are available right now in our blood bank with specified blood group and also which group is need

When a donor will donate blood and it will automatically added to the file of available blood bottles and when a patient will request for a blood bottle then It’ll also minus that bottle from file of available blood bottles.

**Group Members:**

Individual work by:

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**Concepts Used:**

* Filing
* Polymorphism
* Inheritance
* Encapsulation
* Abstract classes

***Description of classes:***

**Human Class:**

It is parent class and abstract class containing functions which are pure virtual.

**Donor Class:**

Its child class and inherited from base class .It contains functions which are virtual. It ask for sign up, login and gives program info to the user.

**Patient class:**

Its child class and inherited from base class .it contains functions which are virtual. It ask for sign up, login and gives program info to the user.

**Staff class:**

Its child class and inherited from base class .it contains functions which are virtual. Task for sign in and then gives option to check the donors list, and availability of blood.