**BLOOD BANK MANAGEMNT SYSTEM**

**JAVA Project**

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**Introduction**

The aim of the project is to retrieve, process and store information related to donors and patients. The system inputs the details of patients (name, age, disease, doctor, admitted date, blood group required) and details of donors (name, age, blood group, any disease). **Minimum Hardware Requirement**

* **Processor:** Intel Atom® Processor or Intel CoreTM i3 or AMD Ryzen 3
* **RAM:** 2GB
* **Disk Space:** 1GB

**Software Requirement**

* **Operating System:** Windows, Linux, or MacOS
* JDK 18

**Java Concepts Used**

1. **Scanner Class**

Scanner is a class in java.util package used for obtaining the input of the primitive types like int, double, etc. and strings. It is the easiest way to read input in a Java program, though not very efficient if you want an input method for scenarios where time is a constraint like in competitive programming.

1. **Exception Handling**

**Exception Handling** in Java is one of the effective means to handle the runtime errors so that the regular flow of the application can be preserved. Java Exception Handling is a mechanism to handle runtime errors such as ClassNotFoundException, IOException, SQLException, RemoteException, etc.

1. **File Handling**

In Java, with the help of File Class, we can work with files. This File Class is inside the java.io package. The File class can be used by creating an object of the class and then specifying the name of the file.

1. **ArrayList**

The ArrayList class is a resizable array, which can be found in the java.util package.

The difference between a built-in array and an ArrayList in Java, is that the size of an array cannot be modified (if you want to add or remove elements to/from an array, you must create a new one). While elements can be added and removed from an ArrayList whenever you want.

**Output**

Text

Description automatically generated

Text, email

Description automatically generated

Graphical user interface, text, email

Description automatically generated

Text, letter

Description automatically generated

Graphical user interface, text, email

Description automatically generated

A picture containing table

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated with medium confidence

Graphical user interface, text

Description automatically generated

Text

Description automatically generated with medium confidence

Graphical user interface, text

Description automatically generated

Graphical user interface, text, email

Description automatically generated

Text, letter

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated

Graphical user interface, text, email

Description automatically generated

Table

Description automatically generated

Table

Description automatically generated with medium confidence

Text

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated

Text, application, email

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated with medium confidence

Text, letter

Description automatically generated