**Background – Target Audience? Defining Problem?**  
This program is being undertaken by the American Red Cross. They need an application to measure which types of blood are currently in storage and which they are short in stock. This application will keep track of donor’s information, their blood type, and when they can donate.

**Benefits – How does this app solve the problem?**

Easily keep track of donation records, send reminders to donors when they can donate again – Notifying red cross employees when a there’s a shortage

**Key Features**

* I. Register New Users (Can ask prior medical history to determine if they are eligible?)
* II. Store Data
* A. (Blood types, donor’s name, address, telephone number, donation date)
* III. Retrieve Data through Search
* A. Pull Data about Donor
* IV. Ability to Contact donor when they can donate again from last donation date
* V. Display amounts of different blood types currently in storage
* A. Graph on Employee Login

**Feature Description**

**LOGIN:**

1: Enter Email/Password

1a: (Error Message for wrong Account Info)

2: If **Donor** Email/Password entered, display if Eligible/Not Eligible to Donate

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3: If **Employee** Email/Password entered, show display graph of Blood Types in stock with Label for lowest three in current stock.

***Search Donor – Employee Login***

4: Ability to Search Donors, displaying Donor information

4a: (If no result on search display error message)

*(Possibility to add buttons to update graph quickly? Add/Remove blood in Database upon use of Donors Blood)*

*(Another Search button to search by Blood-Type, to gather emails of those when blood shortage is present)*

**New Donor:**

5: If New Donor, check Age/Height & Weight to see if eligible to donate

5a: (Error Message if ineligible Age/Height & Weight Ratio as well)  
***Register***

6: If eligible Age/Height & Weight ratio, fill out Donor Information and register Donor account

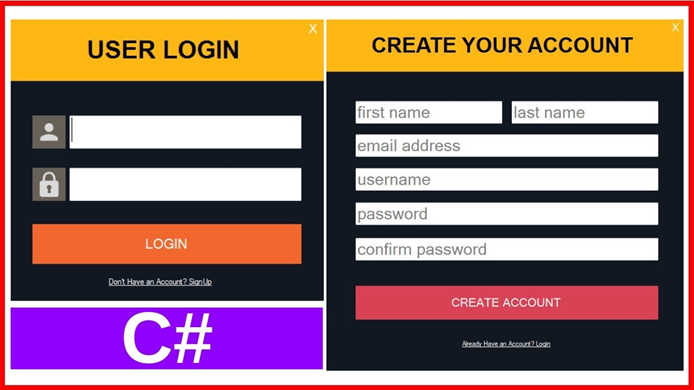
6a: (Message popup for successful registration, then redirect back to Login Page)

**Comparison with similar apps**

**List apps here**

**Design Ideas**

A picture containing drawing, table

Description automatically generated A screenshot of a cell phone

Description automatically generated