

# Project Proposal: Lifeblood

Blood Type Crawler + Matcher

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The word "lifeblood" is rendered in a stylized, rounded font with a red-to-orange gradient and a white outline. A small red cross is positioned above the 'i'. A single red blood drop is attached to the bottom of the final 'd'.

# OVERVIEW OF PROJECT PROPOSAL

### Group Members

Bryan Tong - [btong@berkeley.edu](mailto:btong@berkeley.edu)  
(Just me, currently planned.)

### GitHub Link

<https://github.com/bbtong/lifeblood>

### Brief Project Description

At its core, the Lifeblood App will be a blood-type/medical donor matcher for patients who have extraneous circumstances or the need to expedite finding a match beyond the traditional healthcare system. It's purely opt-in and users disclose as much or as little on their own will to find a match. No payment or private medical information will be handled - it essentially will be like a dating-matcher, but for a good cause.

It will feature options such as name, age, contact information, gender, racial history, blood type, and a donor-comparability system to ensure no user's time is wasted on bad or wrong matches. Lifeblood will store this to Firebase (<https://firebase.google.com/>) along with location information and accessibility information should a match be found. Patients can then go through a local hospital donor system or other routes to work with their donor.

This project is greatly expandable: a parser could be added to search public social media bios for blood types (popular to list in Asia). A secure chat could be added within the app. Visualizations of ancestry and blood type can be added to improve user experience. DNA/Ancestry integration and other website APIs could also be integrated if available.

### List of Frameworks

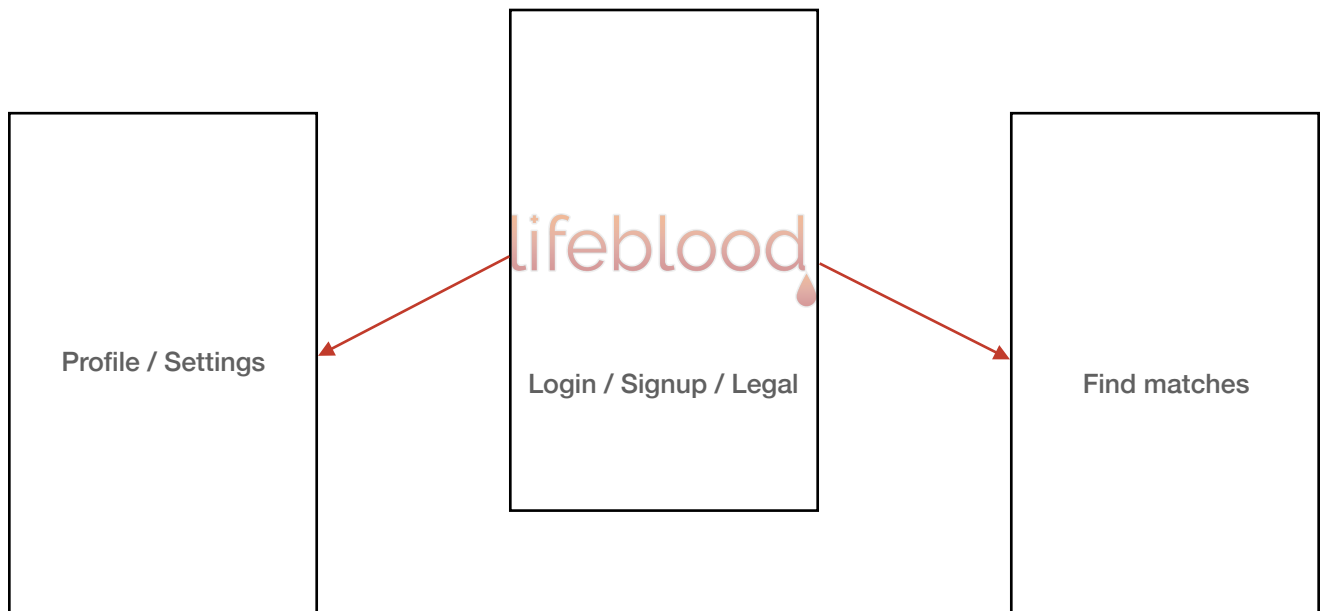
As described above, this project will rely on Firebase as a JSON database to store information (non-HIPPA). Google Maps will definitely be used as may Core Data and Camera be for profile settings and alerting the user when a match is found.

There are many external APIs, websites, and crawlers that could potentially be added if the app is a success.

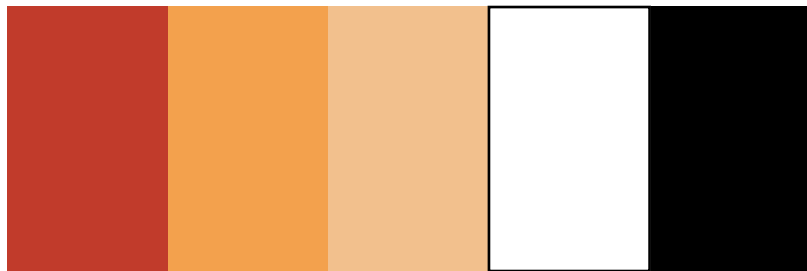
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## LIFEBLOOD APP - BRYAN TONG

### STORYBOARD + APP FLOW CONCEPT



Color Scheme:



## LIFEBLOOD APP - BRYAN TONG

### LIVE APP VISUAL DESIGN (IN XCODE)

