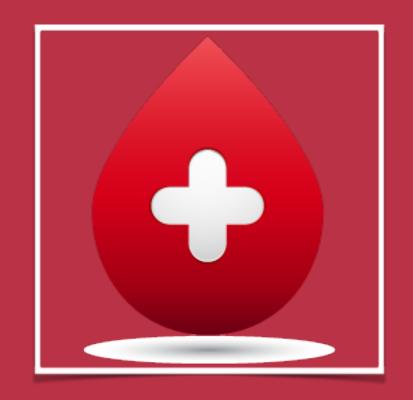
BloodLine

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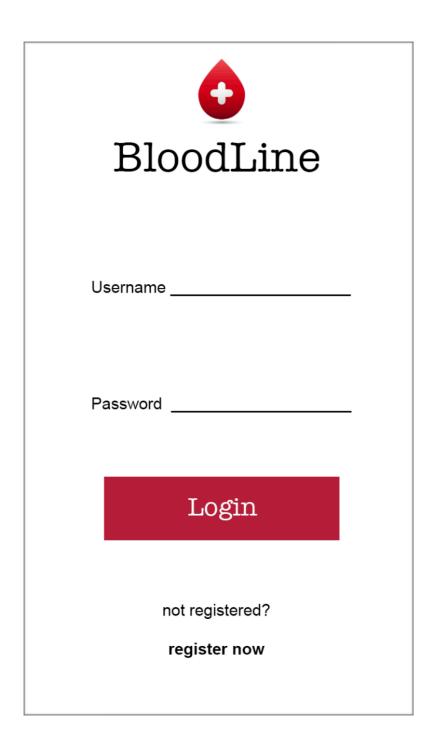


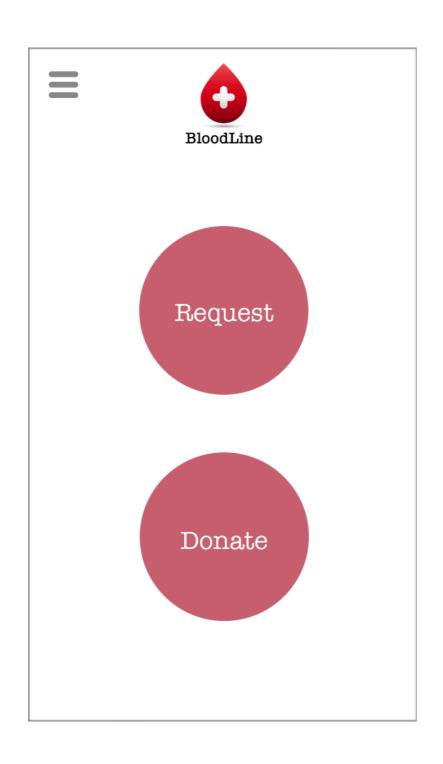
OVERVIEW

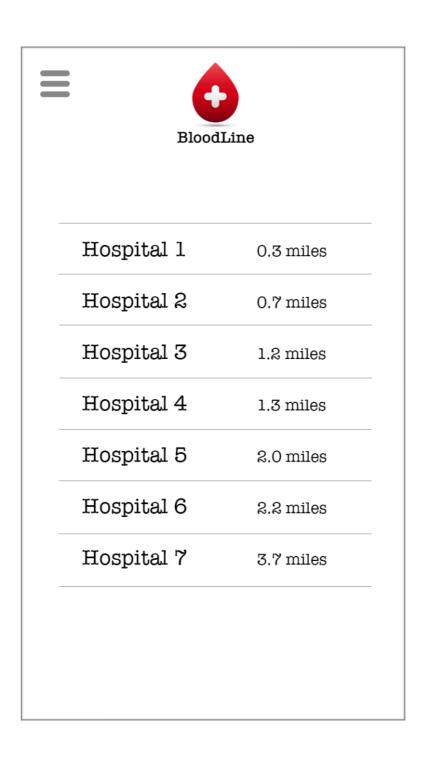
An application to facilitate blood donation for emergency situations and looking at mobile application performances for low-bandwidth networks.

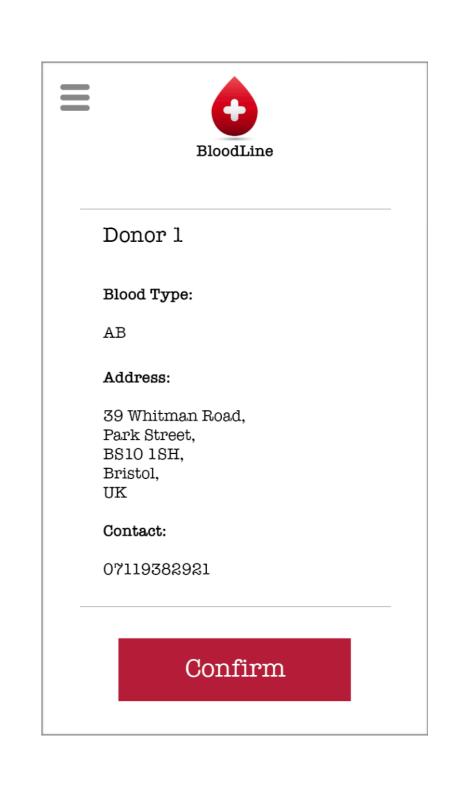
INTRODUCTION

- ◆ The aim of the project is to create an online platform for blood donation.
- ♦ Blood donation in the UK is currently carried out via NHSBT where blood is collected, processed and then supplied to hospitals.
- ♦ However, in under developed countries and areas where blood related emergencies are significantly higher in number, the need for emergency blood donation is greater.
- ♦ In such scenarios, having an application which connects blood donors and requesters, facilitates emergency blood donations and helps to reduce fatalities caused by the lack of blood.
- ♦ Since the application is being primarily developed for under developed countries, the major challenge is to investigate how the application can work well with low-bandwidth networks.









PROPOSED SOLUTION

- The application is being developed for Android OS
- ♦ According to <u>www.statista.com</u>, Android holds a share of 82% of the market in countries like India.
- ◆ Build a very light application with a clean and simple interface.
- ◆ Requesters would use the application to find suitable blood donors within a certain location
- All nearest suitable donors would receive a notification and once a match is made, a hospital nearby would be located

FURTHER WORK

- Investigate how the application can be developed to work well with low-bandwidth networks
- ◆ Since the application is being developed in the UK, the low-bandwidth would have to be simulated
- ◆ Look at how peer-to-peer networks can be utilised to prevent the application from being disconnected due to low-bandwidth.

