# Project Goals and Objectives

Our main goal is to introduce a web-based system to make blood donation process and blood management of blood banks all around Sri Lanka , efficiently through one platform. Through our system we will be able to save time of both the donor and staff of the blood bank. Through our system donors can find the nearest blood donation camp to donate blood, blood banks can request blood from other blood banks and they can send emails and SMS to users considering their blood group and home town so that when a blood bank runs out of particular blood type they can ask registered donors to come and donate blood if they are able to. And also through our system blood banks will be able to approve blood donation camps in a productive way (organizing a blood camp within 4 months in two near geometrical locations is inefficient since a person can only donate blood once in every four months. Through our system blood banks can view the blood stocks of typical type all around Sri Lanka and the process of organizing a blood camp is also improvised in a efficient way. Also blood banks can post their special announcements in our web page.

**Objectives**

* Identify requirement of blood banks and donors through discussion and survey.
* Develop a web based application to make the process of blood bank activities efficiently.
* To provide a platform for blood banks to update their blood stocks, view blood stocks ,view donor camps within 4 months , request blood from registered user in case of particular type of blood stocks runs out.
* To provide a platform for donors to register , check for blood camps near him/her and see other information related to blood banks.
* Enhance documentation skills related to software engineering and learn web based technologies used to develop web applications.
* Improve teamwork and time management skills.

# Project Scope

**Project Boundaries**

* **Users** Guest User
* Registered User
* Blood bank staff
* Admin

**In Scope**

* Create a platform where a donor can login and search for blood donation camps near him/her.
* Create a platform to register an blood bank
* Create a platform for admin where he can add/ban/edit users.
* Create a platform where a person with access token can login and organize a blood donation camp and request approval.
* Interface for blood banks to view blood stocks of all the blood banks.
* Platform to Update blood stocks.
* Platform to request blood from blood banks.
* Platform to request blood from registered users.
* Platform to post announcement posts .
* Interface for blood bank to check weather it’s a suitable place
* Interface for registered users to report Bugs
* Platform to view donation camps with given location or time period.
* Platform for registered users to post posts requesting blood regarding a particular blood bank.

# Out of scope

* Managing transportation of blood from one blood bank to another.
* Meetings of user who want to organize an blood camp .
* Internal management of blood donation camps and blood banks

# Project Constraints

* One user cannot have more than one account.
* Only registered users are allowed search for blood donor camp.
* When accepting an blood requesting request from another blood bank you cannot accept it if the particular blood banks blood stocks becomes less than 1000 liters after giving.
* A donor can only donate blood once in every 4 months.
* No two donation camps can be organized within for months if the distance of two blood camps is less than 15 kms.

# Project assumptions

* All users have access to an internet connection and own an email address.
* Information provided by users are valid. And all users have an NIC or passport