**Prototype Requirements**

**P11:Blood Donation System**

**<team member names & ids>**

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| --- | --- |
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# Introduction

Blood Donating System is an Android, iOS and web-based app that provides a platform to blood donors and receivers for successful blood donation. It is going to make blood donation accessible to the one in need. The potential users of the app are blood donors, NGOs and blood recipients.

The overall objectives of the app are:

* Expedite the process of blood donation.
* Encourage NGOs to provide blood donors to the system.
* Through a system of ratings, points and rewards, encourage more and more donors to use the app.
* Provide an easy communication between blood donors and blood receivers.
* Make blood donation easily accessible to the one in need.

In the app, a recipient is going to ask for a donation of blood. The request will be pushed to a newsfeed where a donor will willingly respond to the request. A chat module will open between the donor and the receiver where they can communicate regarding the blood donation. On successful blood donation, the donor will be rewarded with points.

The app is going to be android, iOS and web-based. The main technologies that we are going to use for our app are Ruby on Rails, React and React Native.

# Instructions

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* Select a subset of system requirements and implement them. The end result of the prototype phase must be a working system with the selected set of requirements implemented completely. No mock-up screens will be accepted.
* Don’t select simple requirements such as Login/Logout for prototype phase, you can implement them later.
* Select the set of requirements keeping in mind that you have a total of three weeks for prototype development. I would ask you to add more requirements if I think that you can do more in the given duration.
* The prototype must be built using the tools and technologies which you have selected for your system development.
* By the end of the prototype development phase,
  1. You should have learnt development tools and technologies.
  2. You should have a clear idea of detailed technical architecture of your system. After the prototype phase, you will be required to define detailed technical architecture of your system.
* **Prototype Submission**
  1. Properly tested **working prototype** deployed on an online hosting platform.
  2. **Code** with proper comments uploaded in “prototype” folder of your project’s Github repository.
  3. **3-4 minutes video** that explains the functionality of your prototype—to be uploaded in “prototype” folder of your project’s Github repository.

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**Declaration**:

Since it is initial prototype, we have not validated any input entered by the user. We are assuming that user will enter correct input. Since there is no login or user identity system implemented yet. We made only one user which is posting and accepting the blood donation requests.

Lastly, please consider the fact that we build this in one week with no previous knowledge of technologies. This is the best we could do in the current circumstances.

# List of Requirements

<List down the requirements selected for prototype development.>

|  |  |
| --- | --- |
| **Requirements** | |
| **Sr#** | **Requirement** |
| 1 | Post blood donation request |
| 2 | View blood donation request |
| 3 | Accept blood donation request |
| 4 | View Profile |

# Where to Access the Prototype

1. Install “Expo Client” app in you mobile from Playstore or Appstore.
2. exp://exp.host/@ahmadaslam1999/BDS
3. Click on the link above on you laptop.
4. Click scan QR code on the expo app and scan the QR.

Alternative Way:

1. Copy the below url on in your clipboard on mobile phone.
2. exp://exp.host/@ahmadaslam1999/BDS
3. Open Expo app.
4. Click “Open from clipboard’ to open the prototype.

**Prototype video Link:**

<https://drive.google.com/file/d/1--lLsw1CJ8oiOLuywRncOs0X5AJt67Um/view?usp=sharing>

# Review checklist

Before submission of this deliverable, the team must perform an internal review. Each team member will review one or more sections of the deliverable.

|  |  |
| --- | --- |
| **Section** **Title** | **Reviewer Name(s)** |
| Post blood donation request | Ahmad Aslam |
| View blood donation request | Muhammad Bilal |
| Accept blood donation request | Saad Azam |
| View Profile | Ahmad Asalam |