



# Website & Mobile Application For Badhan

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## Overview

**BADHAN** is a voluntary blood donors' organization. It has branches in almost all of the undergraduate institutions like BUET. The BUET zone of Badhan keeps track of all the donors through the different residential hall committees. Each hall committee can access the data of

the donors associated with that hall only. They already have an website for maintenance of the whole system which has many problems. They are also looking for some new functionalities.

We would like to redesign the whole system keeping the currently working functionalities and adding the new expected ones.

## Current Features

1. **Account creation for members :** The members of the committee can create an account in the system with their student ID and password. This account is used to trace the level of authority over the system.
2. **Admin privileges :** Higher authority users (admins) have the option to approve or disapprove the account creation request of the general members. Admins can also pass over the admin privileges to a general member .
3. **Log in and searching for specific blood group in the respective residential hall :** Users can log into the system and search for donors of a specific blood group, but only of those associated with the respective hall.
4. **Adding, removing and updating donor information :** Members can add, remove and update the information related to a donor (for example : contact information , date of donation , any medical issue that prohibiting blood donation, etc.) and the changes are tracked using a log.


## Problems of the Current System

1. **No option to search for non-resident donors based on their home address :** If a conditions arises where blood is needed in a specific region of Dhaka (like Uttara ) , the search option should incorporate the home address of the donors as that makes things more realistic and possible keeping the distance and traffic in consideration.
2. **Problem with the different formats of student ID :** In the process of populating the current database, student ID numbers have been inserted in different formats. This creates a problem in searching for a specific donor and checking of duplicate information.
3. **No way to handle duplicate donor addition and information updates :** Currently there is no way to track and handle duplication in the processes of

updating donor information. The new system needs to have this feature.

## New Features to be Added

1. **A new member role named "Area representative"** : In case of emergency need of donor in a specific area of Dhaka , the area representative can help in reaching the donors of that specific area. The members need to be able to find the area representatives' information in the search process.
2. **Searching privileges to non-members** : Non-members need to be able to search for members of their residential hall to contact with.
3. **Option to view the states of currently unavailable donors** : A donor can be unavailable for causes like donation in near past , medical conditions ,etc. The members need a way to check for the current condition of a donor.
4. **Auto report generation** : The system should automatically generate report on the donation statistics over a given span of time on prompt .

**Badhan BUET Zone**

**Log In**  
  
  
☒ Remember me  
**Log In**  
**Create Account**

**Not a member?**  
Search for member of a hall.  
  
**Search**

## Home

Home

Profile


Add Donor

Update Donor

FAQ

Help

Logged in as  
Shahad Ishraq

 Notification

Latest

Latest News


Coming Up

Upcoming Events

Search Donor

Blood Group ▾

Area ▾



## Profile

Home

Profile


Add Donor

Update Donor

FAQ

Help


Logged in as  
Shahad Ishraq

 Notification

Search Donor

Blood Group ▾

Area ▾



Image

Name

Shahad Ishraq

Student ID

1305022

Hall

Kazi Nazrul Islam

Blood Group

O +

Email

abcd@email.com

Contact

0121235

Edit Profile

## Provide Your Information

Name

Shahad Ishraq

ok

Hall

Kazi Nazrul Islam ▼

Student ID

1305022

ok

Blood group

O+ ▼

Email

seo@apple.com

To Moderate

Panel content

Phone

01711123456

Create Account

## Update Donor

Logged in as  
Shahad Ishraq

Home

Profile

Add Donor

Update Donor

FAQ

Help



Notification

### Add Donation Information

Blood Group ▼

Student ID ▼

Date of Donation



Add

### Change Availability Status

Blood Group ▼

Student ID ▼



Available



Unavailable

Change

Search Donor

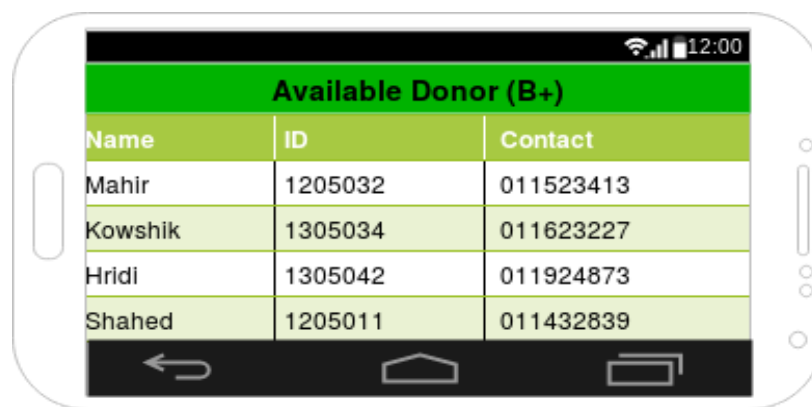
Blood Group ▼

Area ▼



## Features Wanted in the Mobile App

1. **Searching donor in offline mode** : A offline copy of the database of the respective hall to search for donors even when connectivity is not an option.
2. **Donor history** : The user (donor) should be able to see his history of donation to keep track of his availability.
3. All the features of the website.



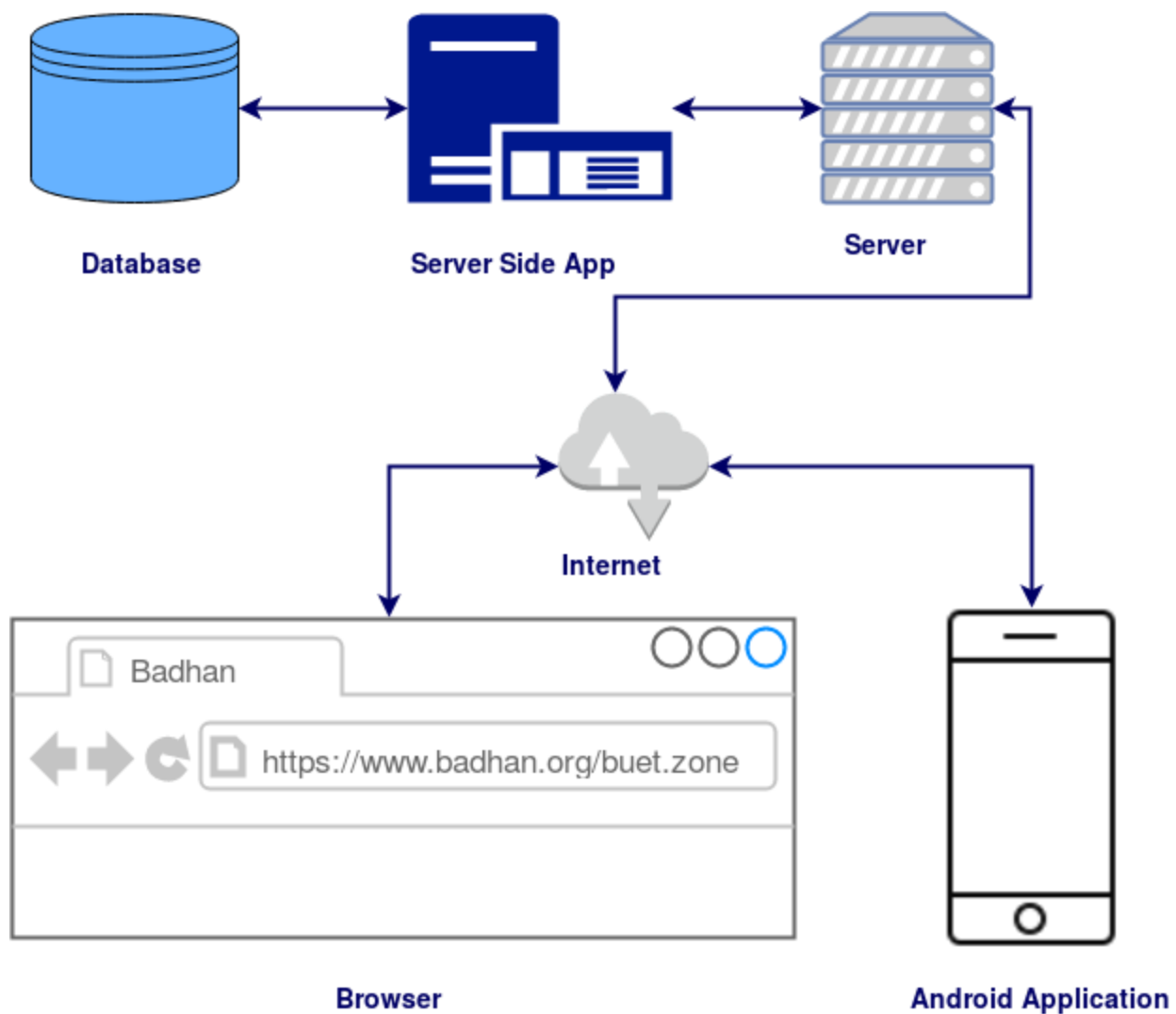
Available Donor (B+)		
Name	ID	Contact
Mahir	1205032	011523413
Kowshik	1305034	011623227
Hridi	1305042	011924873
Shahed	1205011	011432839

**Android Application Interface**

## Motivation

The problems of the current system is the main motivation of this project. The added functionalities will enhance the entire process and make the maintenance of all the data more efficient and easy to use. The mobile app will add ease of usage.

## System Architecture



**System Architecture**

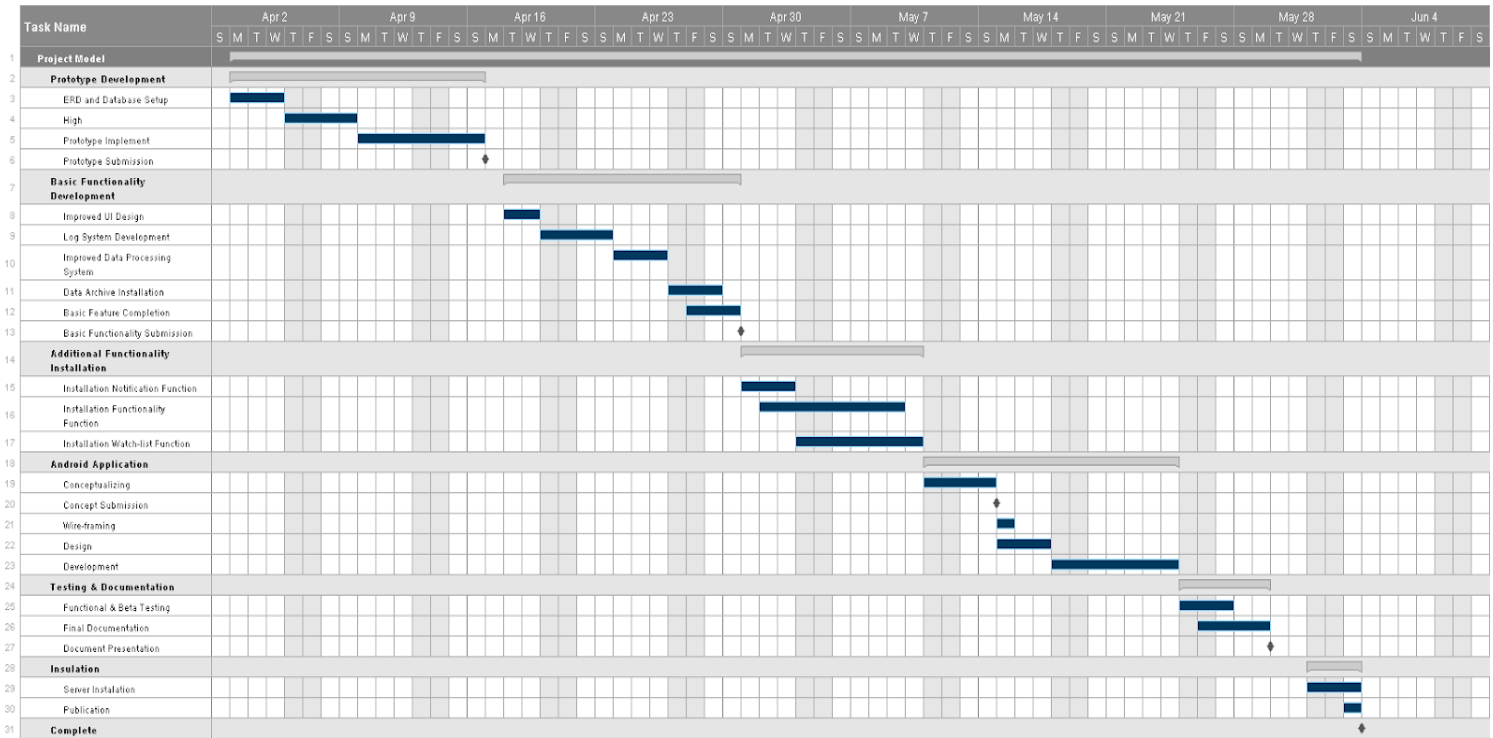
## Tools & Technologies

An web based application with an android app will be developed using

- **PHP**  
For front and back end.
- **Laravel**  
PHP web framework.
- **Apache**  
Web server software.
- **MySQL**  
For database development and management.
- **Java, Android SDK**  
For android application development.
- **XML**  
For parsing data structure.



# Timetable



<https://goo.gl/PKudF9>

## Key Stakeholders

Project Supervisor	Dr. Sadia Sharmin
Developer	Shahad Ishraq
Developer	Md. Jakaria
Client	Badhan BUET Zone