 Air University Multan campus

Department of Computer Science and Engineening

*Web Application Development*

Blood Bank Management System

**Project Proposal**

|  |  |
| --- | --- |
| **Group#: 1** | **BSCS (VI)** |
| **Group members: 4** | |
| *<Student1>* | Ahad Bin Ilyas, 161103 |
| *<Student2>* | Owais Raza, 161106 |
| *<Student3>* | Saifullah Butt, 161114 |
| *<Student4>* | Samiullah Butt, 161138 |

Supervised by

Aatika Ali

**Revision Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Page#** | **Section#** | **Reviewer** | **Corrected by (Reviewer, Author)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Table of Contents**

1. Introduction 4

2. Purpose 4

3. The Problem 4

3. Project Goals and Objectives 4

3.1. Goals 4

3.2. Objectives 4

4. The Solution 4

5. Project Scope 4

6. Hardware and Software Tools 4

6.1.Hardware 4

6.2.Software 4

9. Roles and Responsibilities 5

10. Risk management 5

References 5

Appendices 6

# Introduction

The Blood Donation Agent is to create an e-Information about the donor and organization that are related to donating the blood. Through this application any person who is interested in donating the blood can register himself in the same way if any organization wants to register itself with this site that can also register. Moreover if any general consumer wants to make request blood online he can also take the help of this site. Admin is the main authority who can do addition, deletion, and modification if required.

# Purpose

The purpose of the system can be viewed in the way that dedicated software will be developed that can perform the following tasks:

* To provide the facility of keeping information of each donor.
* To maintain the records in efficient manner.
* To facilitate easy data entry, retrieval and storage.
* To increase the efficiency in blood retrieval.
* To almost eliminate the paper work.
* To speed up the work and increase the productivity.
* To eliminate the chances of inaccurate data entering.

# The Problem

People are often clueless as to where they can start looking in order to find the demanded Blood to purchase or Sell. Running off to Blood Banks in your own city takes huge amount of effort and time, and they are still not satisfied or they think that they are untrustworthy.

# Project Goals and Objectives

Our goal is to create an interactive website that lets its users sell or purchase Blood without spending a lot of time and effort in doing it.

Our objectives are to use HTML, CSS, JavaScript and PHP to make an attractive user-friendly website that is easy to use for the common people. It will allow the users to create accounts, look for blood donors that are available on the site, make a request for blood and add their blood information to donate.

# The Solution

We solve the problem by providing a platform where you can not only look for needed blood to sell or purchase but also do it with little to no effort and time.

We will be using:

Frontend: HTML, CSS, Java script

Backend: PHP

Database: MYSQL

# Project Scope

The scope of the system means the area covered by the proposed system. It is very important to define the area of the suggested system. So, the area of my concern is that the working of the system will be off line system.

* It keeps information of all donor’s record.
* Register donors and stored detailed information about donors.
* Stored information of receiving blood from donors.
* Generate report according donor how much receive blood from donor according specific duration.
* Generate report how much issued blood according specific durations.
* Show all registered donor information by name, by department and generate report.
* Show from stock of blood how much blood is available according their blood group.
* User can search blood according their needed blood group and also request for blood.

# Hardware and Software Tools

## 7.1 Hardware

Microsoft Windows 10 computers with active internet connection.

## 7.2 Software

Mozilla Firefox

Visual Studio Code

# Roles and Responsibilities

Roles and responsibilities of project members should be clearly stated in the beginning of the project.

The following table can be used as a template:

|  |  |  |
| --- | --- | --- |
| **Role** | **Responsibilities** | **Participant(s)** |
| Project Leader | Managing the group | Ahad Bin Ilyas |
| Analysis | Assuring bug-free webpages | Owais Raza |
| Design | Creating layout of the website | Ahad Bin Ilyas, Samiullah Butt |
| Implementation | Creating the webpages | Ahad Bin Ilyas, Samiullah Butt, Saifullah Butt |
| Testing | Exploring through the site to make sure that everything is working as planned | Owais Raza, Saifullah Butt |

# Risk Management

The expected risk, the likelihood that the risk will occur and your strategy in avoiding, minimizing or dealing with each risk if occurred.

The following table lists them:

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Type** | **Probability** | **Strategy** |
| Unreliable database queries | Technical | Likely | Understanding the core concepts of how web works in order to make a reliable website |
| Website with unusable links | Front end | Unlikely | Testing team will explore it thoroughly to make sure there are no issues |
| Unreliable client-side scripting | Front end | Likely | Implementation team will use the online free sources to make web surfing easier for the user |
| Application isn’t stable | Technical | Unlikely | The programming team will code in pair-programming and unit testing will be applied after each unit completion. |
| Unfriendly User Interface | Front end | Likely | We will first study state of the art user interface designs and model our user interface so that it can be friendly |
| Overlapping/Broken User Interface | Front end | Likely | Understand the core concepts of CSS Box Model to avoid overlapping of elements. |