



Blood Donation Website

Group NO. 2

Khlood Alamri - 1906093

Raghad AlZahrani - 1906989

Manar Altairy - 1906775

Elaf Aloufi - 1911265

Section: B9A

Supervised By: Dr. Aisha Asiri

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Abstract

Most patients who need blood transfusions post their requests for blood donors on their social media, which is a slow, inefficient approach, and might require direct contact between the donor and the patient.

BloodDonation is a medical Web-based Blood Donation System that enables individuals who want to donate blood to help the needy.

The system targets three types of users: the public who wants to donate blood, the recipients who need the donated blood, and the hospitals that work as an intermediary to manage the communication between the donors and recipients.

Our project aims to facilitate the access of donors to patients in need of blood donation where emergency patients who need blood transfusions are found through this website, Moreover, BloodDonation website allows donors to book a blood donation easily after checking eligibility to donate.

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Introduction

Blood donation is the process of transferring blood from a healthy person to someone who needs it. Donors participate to save many human beings each year.

The blood donation website is a site that will make it easier for the user to book to donate their blood. The site asks the user to register if they don't have account, once they successfully register donation process page get shown to them, so they know the sequence of the operation and be in the picture. And then they must answer the requirements quiz to see if they are eligible to donate or not. When confirming their eligibility, they transferred to the appointment booking page to make an appointment and confirm it.

Project Pages

1.1 Home Page

The main page serves as an introduction to the website, outlining its goals and inspiring visitors to donate. It has an attractive design and a button that directs visitors to begin the donation process. There is also a footer with developers' information and a header with links to other pages.

1.2 Donation Process Page

This page contains the donation process that the user walks on and needs to know before donating blood. In order to know what should be done and to consider it.

1.3 Sign Up Page

Sign up page is a registration page that contains some data fields that the user is required to enter where each entry is validated, such as (email formats, mobile phone number formats, ID number formats, fill in all blank fields...) to store this data in the database and take the user to a login page.

This page contains several fields: (Email, Password, Identification Number, Telephone number, Blood type, and Date of birth).

The user must fill in all these fields in order to create an account on the website. Nonetheless, if the user entered any of these entries incorrectly, he would need to correct them, since the site asks the user to re-enter the information.

If the user is already registered, and his data is already in the database, this page will enable him to choose to directly go to the login page.

1.4 Login Page

On this page, the previously registered user enters his email and password to log in. To log in to the website, the user must complete all fields. However, if the user entered any of these entries incorrectly, he would have to correct them, since the site asks the user to re-enter information.

Verification will be done that the user's data is valid and present in the database before the user logs in.

If the user is not registered in the database, the website will redirect the user to the signup page to create an account.

If the user does not remember his password, he can choose the Forget Password option to reset the password from this page.

1.5 Book Appointments Page

This page allows the user to set up an appointment after taking the quiz and being eligible to donate. The user books an appointment in a specific hospital through this page, where he chooses the appropriate time on the date he wants to donate. Then the appointment information will be saved in the appointment database table.

1.6 Requirement Quiz Page

This has a form that has several questions that users must answer to know if they are eligible to donate or not. If they are eligible, it will take them to the “Book Appointment” page; if they are not eligible to donate, they will receive a rejection message explaining why they are not accepted.

The form has five questions (**Age, Weight, infectious diseases, Last Donation Date, Taking Antibiotics**) when the user focuses on any field in the form a hint text shows up for helping the user to know what to enter and when he loses focus the hint text disappears.

The form has Matching conditions, if the user's age is less than 18 years it will get rejected and a message will show the reason for rejection. If the user's weight is less than 50, they will get rejected. If the user has an infectious disease like Cancer, AIDS, Diabetes, etc. they will get rejected. If their last donation was 3 months ago, they will get rejected and if they are taking

antibiotics they will also get rejected, other than that they will get accepted and move on to the next page.

There is some field validation, if the user enters any type of data that not matching what is expected to enter, an error message is shown telling them to enter the right type of data.

The form has two buttons (Submit, Reset), both buttons ask for the user's confirmation before processing any actions, and after submitting the form the user's answers will get saved into the database.

Work distribution

The following table shows the pages each member did in the project:

Khlood Alamri	Raghad AlZahrani
HTML: Requirement Quiz JavaScript: Requirement Form Validation Form Prosses CSS: Requir Style	HTML: Index PHP: Book Appointment config index Log In post Appointment ReqQuiz Result Requirement Quiz session Sign Up CSS: home
Manar Altairy	Elaf Aloufi
HTML: Process book Appointment Login index PHP: Forget Password Signup reset password Verification CSS: Process page style login2 book Appointment home	HTML: Book Appointment process Sign Up Forget Password Verification PHP: Sign Up CSS: Book Signup Style Forget Style Pages Style

Conclusion

BloodDonation project encourages the public to donate blood as it creates a platform for people from which volunteers can come together to give blood, thereby becoming one of those who will be directly alleviating the hardship and suffering of another human being.

The main objectives for developing the website are to educate the community on the benefits of blood donation, develop a Web-Based Blood donation System to encourage voluntary blood donation, facilitate the blood donation process as much as possible, speed up the search process for patients who need to donate blood, and the distribution of the blood in various hospitals in Jeddah, based on the hospital needs.