

VOROSHA

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Introduction

This proposal is developing a website for a blood finding/ donation named “Vorosha”. This document contains the overall description, requirements, user stories, phase-wise development outline and expectations.

Overall Description:

Website Functionalities:

1. Users can sign up/ login
2. Users can request blood
3. Users can get notified when their request is accepted
4. Users/Donors can provide feedback.

User Classes and Characteristics:

There will be three types of users:

Donors:

1. Donors can add their blood group, preferable location
2. Donors will share their last blood donation time

Recipient:

1. Recipients can provide the required blood group, preferred area and time and number of bags needed.
2. Recipients can provide feedback.

Admin

1. Can access donor list
2. Can modify donor list
3. Can send notifications to the donors of the specific blood type.
4. Can have access to approve posts of the recipients.

User Stories

User Story 1

As an admin/recipient/donor, I want to create an account on the site So that I can log in to the website with my user credentials.

Name:	Signup
Description:	recipient, admin and donors must fill a form and submit to have access to certain features for their roles.
Actors:	Admin,Donors,recipient
Type:	Primary
Precautions:	Null
Main Flow:	<ol style="list-style-type: none">1. Go to website2. Click on Login button3. In login page click on Signup button4. System will take user to signup page
Alternative Flows:	<ol style="list-style-type: none">1. If the user does not fill the form correctly, prompt error messages.2. If user enter an email already exists on database, prompt appropriate message.

User Story 2

As a donor, I want to update my information.

Name:	Update
Description:	To change the personal information of the existing donors a form needs to be filled out and submitted.
Actors:	Admin & Donor
Type:	Primary
Preconditions:	Signup
Main Flow:	<ul style="list-style-type: none">• There will be 2 radio options in the form of willing donors. One will be for new users and The other is named "Update my form" for existing users.• Existing users will fill up a form and resubmit.• Admin panel will update the information within 24hrs.
Alternative Flow:	<ul style="list-style-type: none">• If user password not matches, show 'Wrong Password' message and redirect to login page again.• If user email not found in database, show 'User not found. Please signup' message and redirect to the login page again.

User Story 3

As a blood seeker(recipient) I want to post for blood.

Name:	Request blood
Description:	Recipient would announce their requirement of blood.
Actor:	Recipient & Admin
Type:	Primary
Preconditions:	Null
Main Flow:	<ul style="list-style-type: none">• The recipient would enter the website and press “request for blood”• This will take him/her to a form where he/she will enter details e.g: Name, Blood group, Number of bags needed, contact details.• Admin would review the request and approve if felt genuine
Alternative Flow:	<ul style="list-style-type: none">• If Admin finds that the request is fake then he/she can reject the request

User Story 4

Linking blood seekers with donors.

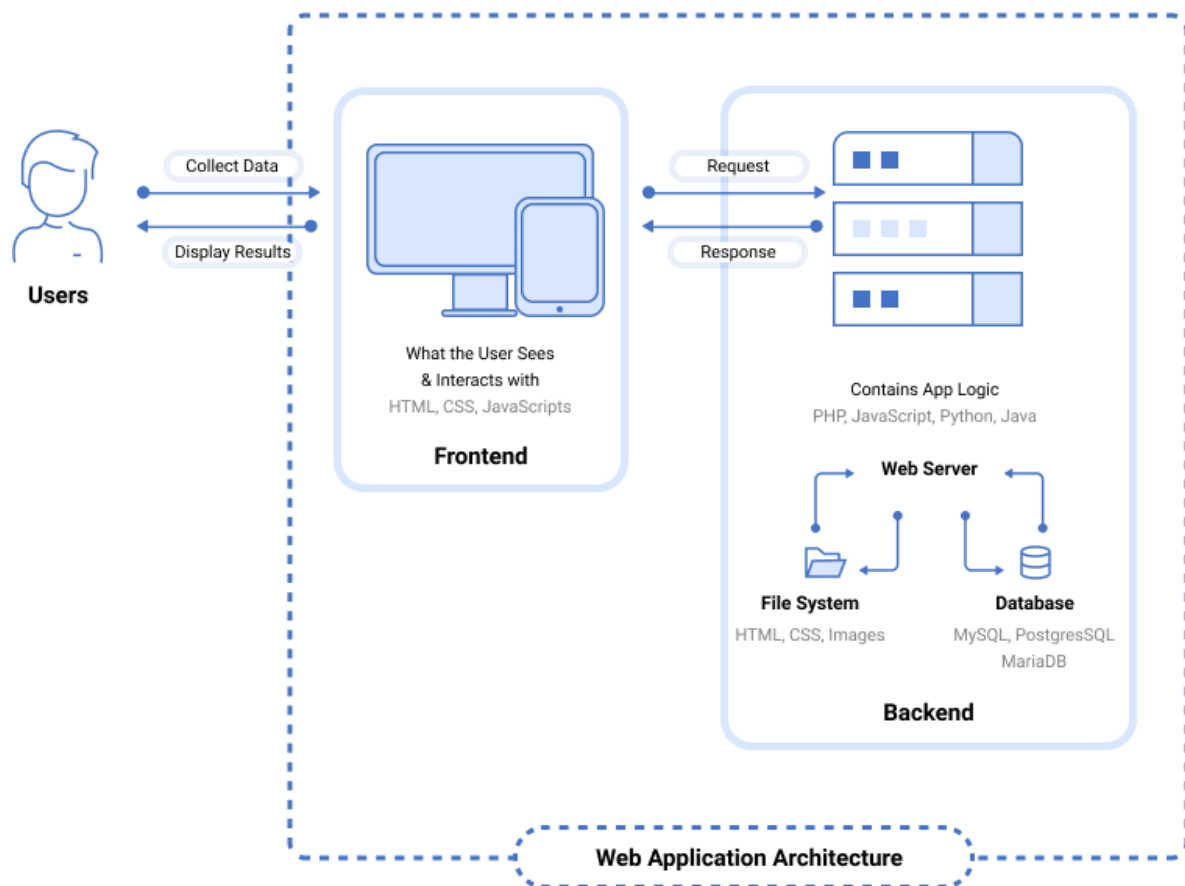
Name:	Finding donor
Description:	As an Admin I will contact eligible donors to donate their blood.
Actor:	Admin
Type:	Primary
Preconditions:	Requests for blood must be accepted.
Main Flow:	<ul style="list-style-type: none">• If the blood request is accepted the the admin will search their database and find out eligible donors• Then they will contact with the donors• If the donor accepts the request the admin will notify the recipient with the details.
Alternative Flow:	<ul style="list-style-type: none">• If no donors are found the admin will inform the blood seeker immediately.

User Story 5

As a recipient I want to give feedback

Name:	Feedback
Description:	After receiving the blood the recipient will give some feedback if they want.
Actor:	Recipient & Admin
Type:	Primary
Preconditions:	Requests for blood must be accepted.
Main Flow:	<ul style="list-style-type: none">• Recipient will click on the comment box and write feedback then submit it.• Admin will review the feedback and approve to be displayed on the website.
Alternative Flow:	<ul style="list-style-type: none">• If the feedback doesn't comply with the website conditions then it will be rejected.

Solution Description:



Architecture:

HTML, CSS will be used for front end designing and PHP, mySQL will be used for backend with hosting in the local server by XAMPP module.



Front-end

- search option and overview on main page of blood group and desired location
- Blood groups details page
- Admin, recipient, Donors registration/ login page
- Requested and donation history
- Most donated users
- general information and about page
- contact and feedback page

Back-end

★ Account deployment:

- Sign up form, verification by mobile or email.
- Login
- Facebook login (Phase 2)
- Google login (Phase 2)
- Forgot Password
- MySQL Database

★ User management:

- DB plan design and development: MySQL
- Donors/ Recipient Profile
- Company/admin Profile

★ Searching facility:

- Blood group category based
- General search
- Preferred location

★ Requesting facility:

- Request the amount of blood
- Emergency rating (1-5)
- Preferred hospital with time