



PULSE CHAIN GIKI

A Secure and Intelligent Blood Donation Platform for Campus

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Software Engineering

INTRODUCTION:

Pulse Chain is a centralized, campus-based blood donation management system designed to address delays, lack of coordination, and manual processes in traditional blood donation practices. The system provides a unified digital platform connecting **donors, recipients, hospitals, and administrators** within the campus community. It enables users to register as donors, request blood, search for compatible donors, and track donation activities. Dedicated dashboards for hospitals and administrators support monitoring, verification, and efficient coordination of blood donation operations. This project aims to enhance emergency response, improve transparency, and promote a reliable blood donation culture within the campus.

PRODUCT SCOPE:

Pulse Chain is a **web-based blood donation system** designed to support rapid and efficient blood donation within a campus. The system offers **role-based dashboards** for donors, recipients, hospitals, and administrators, enabling streamlined blood requests, donor management, and record tracking. It improves communication, reduces delays during emergencies, and ensures accurate management of blood-related data.

Name	Description
Donor	A user who has registered to donate blood.
Requester	A user who submits request for blood.
Admin	A person who manages the system with full privileges.
Hospital	Elevated access for verifying availability.
Dashboard	Interface shows important stats and actions.
Availability	Determines whether a donor is eligible to donate at a given time.

OVERVIEW:

DESCRIPTION

The system is a web-based blood donation platform consisting of separate modules for users, hospitals, and administrators. It supports user registration, login, donor enrollment, and activity tracking. The hospital module enables monitoring of donor availability, while the admin module oversees the entire system by managing donor records, blood requests, and overall operations.

PRODUCT PERSPECTIVE

The product is a web-based blood donation system that enables seamless interactions across multiple components. It integrates key functionalities including user authentication, donor management, blood requests,

and activity tracking. All modules share a centralized database that securely stores donor profiles, availability statuses, request histories, and statistics.

Modules

1. **User Module** – For donor registration, profile management, and activity tracking.
2. **Hospital Module** – To monitor donor availability and manage blood requests.
3. **Admin Module** – For overseeing the entire system, including donor lists, requests, and system operations.
4. **Search & Availability System** – Enables efficient searching of donors and real-time availability checks.
5. **History Tracking System** – Maintains detailed records of donations, requests, and system activity.

PRODUCT FUNCTION:

1:User Dashboard Functions

- Login and authentication.
- Register as a donor with blood group and availability.
- Request blood with required details.
- View recent activity and complete history of donations/requests.
- Dashboard counters for total donations and requests.
- Search for available donors.
- Update personal profile information.

2:Hospital Dashboard Functions

- View all donors and their availability.
- Mark donors as available or unavailable.
- Monitor user-submitted blood requests.
- Update request status (Approved / Pending / Rejected).
- Refresh data to get updated donor statuses and requests.

3:Admin Dashboard Functions

- View overall statistics: total donors, donations, active requests, and available donors.
- Manage donor and request records (edit, update, delete).
- Synchronize system-wide data and monitor logs/statistics.

User Characteristics

The system supports three types of users:

1. General Users

- Basic computer skills required.
- Ability to log in, register, and navigate dashboards.
- Includes students, staff, or citizens interested in donating blood.

2. Hospital Users

- Familiarity with hospital operations.
- Manage donor lists and update availability.
- Regularly monitor blood requests and donor status.

3. Administrators

- Experienced in system management and moderation.
- Monitor user activities and ensure data accuracy.
- Comfortable using advanced dashboard features.

Constraints

- A stable internet connection is required.
- All data must be verified to ensure accurate donor availability.
- Donor information relies on user honesty regarding blood group and availability.
- Each user account must be properly authenticated.
- Privacy and security regulations must be strictly followed.
- System functionalities depend on real-time server updates.

Assumptions and Dependencies

- Users provide accurate information during registration.
- Hospitals and administrators maintain correct donor availability status.
- Database and backend services are fully functional.
- Web browsers must be compatible with the system.

- Emergency blood requests are assumed to be handled promptly by administrators and hospitals.

STATE OF ART:

Traditional blood donation systems rely on paper-based or fragmented digital processes, often lacking **real-time tracking and efficient communication**. Existing solutions rarely provide unified platforms for donors, hospitals, and administrators, which can delay responses during emergencies. **Pulse Chain – GIKI** addresses these gaps with a **web-based, campus-focused system** featuring role-based dashboards, real-time donor availability, search functionality, and comprehensive history tracking, ensuring faster coordination and accurate record management.

LITERATURE REVIEW:

<u>Project Name</u>	<u>Key Features</u>	<u>Limitations</u>	<u>How Pulse Chain GIKI Improves</u>
<u>Blood Bank and Donor Management System (BBDMS)</u>	Automates donor registration, inventory tracking, and testing for general blood banks using centralized databases.	Relies on traditional hospital workflows without role-based dashboards or real-time campus-specific analytics; focuses on broad operations rather than university emergencies.	Adds four tailored dashboards with analytics for donors, recipients, hospitals, and admins, enabling campus-wide coordination and data visualization absent here
<u>Location-based Mobile App for Blood Donor Search</u>	Uses Google Maps and Scrum for real-time donor location between seekers and centers, boosting donor numbers by 39%.	Limited to mobile donor search and communication; no inventory management, hospital integration, or multi-dashboard analytics for stakeholders.	Incorporates geolocation within comprehensive dashboards and analytics, unlike this app's narrow focus, for full-cycle campus tracking from request to fulfillment
<u>Online Blood Donation Management System</u>	Client-server setup for donor registration, real-time inventory, hospital requests, and privacy-focused distribution.	Generic national scope without campus customization or advanced recipient/admin dashboards; emphasizes supply-demand balancing over user-specific analytics.	Provides GIKI-specific multi-role dashboards with analytics, overcoming OBDM's lack of targeted university features and stakeholder transparency .

SU Blood Donor Android App	Stores donor details (name, blood group, location) for quick access in blood collection centers; supports emergency donor replies.	Basic donor database without hospital/admin dashboards, analytics, or recipient tracking; assumes real-time access but lacks structured multi-user coordination.	Delivers analytics-driven dashboards for all roles, far beyond this app's simple storage, ensuring verified campus interactions and system oversight
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4: EXTERNAL INTERFACES REQUIREMENTS:

USER INTERFACES

- **User Dashboard:** Allows multiple users to perform actions such as login, registration, blood requests, and profile updates.
- **Hospital Dashboard:** Enables hospital staff to manage donor availability and view/update donor statuses.
- **Admin Dashboard:** Provides administrators with tools to manage donor records, monitor system statistics, and synchronize data.
- **Responsiveness:** The interface must be functional across various devices (desktop, laptop, tablet, smartphone) and browsers.
- **Performance:** The website should load within 2–3 seconds on modern browsers and devices.

HARDWARE INTERFACES

- Compatible devices include desktops, laptops, tablets, and smartphones for all user roles (General Users, Hospital Users, and Administrators).
- A stable internet connection is required for system functionality.

SOFTWARE INTERFACES

- The primary interface is a web browser.
- All modules, including authentication, donor management, and request tracking, must be integrated and use a shared database for storing profiles, statuses, and history.
- External services may be required for additional features such as email notifications.

COMMUNICATION INTERFACES

- **Web-Based Interaction:** All communication between modules and users occurs via the web interface.
- **Real-Time Data Synchronization:** The backend supports instant updates to ensure donor availability, request status, and other relevant information are reflected across all dashboards in real time.
- **User Communication:** System features, such as the donor search functionality, facilitate communication between donors and requesters.
- **Notifications:** Alerts for blood requests and donor status updates are delivered reliably and promptly to relevant users.

FUNCTIONAL REQUIREMENTS:

Donor / Requester Dashboard Requirements

- **FR1:** The system should allow the user to register a new account.
- **FR2:** The system should allow the user to log in using valid credentials.
- **FR3:** The system should allow the user to log out securely.
- **FR4:** The system should allow the user to view their profile information including name, email, role, and membership date.
- **FR5:** The system should allow the user to edit and update their profile details.
- **FR6:** The system should allow the user to register as a blood donor.
- **FR7:** The system should allow the user to record blood donations.
- **FR8:** The system should allow the user to view their donation history.
- **FR9:** The system should allow the user to submit a blood request.
- **FR10:** The system should allow the user to search for available donors in their area.
- **FR11:** The system should allow the user to view their blood request history.
- **FR12:** The system should allow the user to track the number of blood requests made.
- **FR13:** The system should allow the user to view recent activity including donations and requests.
- **FR14:** The system should allow the user to view overall donation impact statistics.

Hospital Dashboard Requirements

- **FR15:** The system should allow hospital users to view donation statistics.
- **FR16:** The system should allow hospital users to view blood request statistics.
- **FR17:** The system should allow hospital users to check current blood availability by type.

Admin Dashboard Requirements

- **FR18:** The system should allow admin to manage different donor records.
 - **FR19:** The system should allow admin to monitor system statistics.
 - **FR20:** The system should allow admin to synchronize data across all dashboards.

Source	Discussions with stakeholders regarding access security and user data protection.	Source Document	The initial SRS draft compiled during the requirement-gathering phase.
Acceptance/Fit Criteria	The system must correctly authenticate valid login attempts, reject incorrect or unregistered credentials with clear error messages, and take the user to their dashboard immediately after successful login.		
Dependencies	The login feature depends on the authentication component responsible for verifying stored user credentials.		
Priority	Essential	Conditional	-
Change History			

Rationale	Viewing profile information increases transparency and allows users to confirm their registered details are correct.									
Source	Inferred From Scope			Source Document	The SRS draft compiled during the requirement.					
Acceptance/Fit Criteria	Profile information displays correctly, is updated in real time, and accurately reflects the database records.									
Dependencies	Depends on FR1 to have profile data available for display.									
Priority	Essential	Conditional	-	Optional	-					
Change History										

Requirement ID	FR-5	Requirement Type	Functional	Use Case #		UC-01		
Status	New	Agreed-to	-	Baselined	-	Rejected		
Parent Requirement #	None							
Description	Users can update information like email, password, or contact number via a profile management interface.							
Rationale	Personal data may change over time; users must be able to correct or update it.							
Source	Feedback from initial testing and stakeholder recommendations. inferred From Scope			Source Document	SRS v1.0, Section 2.5			
Acceptance/Fit Criteria	Changes are saved successfully, confirmation is displayed, and updated info is shown immediately.							
Dependencies	Relies on profile update service and validation logic.							
Priority	Essential	Conditional	-	Optional	-			
Change History								

Requirement ID	FR-6	Requirement Type	Functional	Use Case #		UC-01
Status	New	Agreed-to	-	Baselined	-	Rejected
Parent Requirement #	None					
Description	Users can voluntarily provide their blood type, health information, and consent to appear in the donor registry.					
Rationale	Necessary to maintain an active, searchable list of eligible donors for emergencies.					
Source	Healthcare partner requirements and domain research			Source Document	SRS v1.0, Section 2.6	
Acceptance/Fit Criteria	Registration confirmation is received, donor is visible in the donor database, and validation of blood type is enforced.					

Dependencies	Requires donor management module and access to user profile data.						
Priority	Essential	Conditional	-	Optional	-		
Change History							

Requirement ID	FR-7	Requirement Type		Functional	Use Case #		UC-01					
Status	New	Agreed-to		-	Baselined		-					
Parent Requirement #	None											
Description	The system must allow donors to log a new donation event, capturing details such as the date of donation, the volume donated, and the location or hospital where the procedure took place.											
Rationale	Tracking donation dates is medically mandatory to ensure donors do not donate again before the safe waiting period passes, protecting the health of the donor.											
Source	Medical Guidelines			Source Document	Donor Policy Doc							
Acceptance/Fit Criteria	System records date and volume (optional). Next eligible date is calculated automatically.											
Dependencies	FR6 (Donor Registration)											
Priority	Essential	Conditional	-	Optional	-							
Change History												

Requirement ID	FR-8	Requirement Type		Functional	Use Case #		UC-01					
Status	New	Agreed-to		-	Baselined		-					
Parent Requirement #	None											
Description	The system should provide users with a chronological list of all their past blood donations, displaying relevant details like dates and locations for personal record-keeping.											
Rationale	Viewing history serves as a personal record for the user and acts as a motivational tool, showing them the consistent impact they have made over time through their donations.											
Source	User Experience			Source Document	UI Mockups v1							
Acceptance/Fit Criteria	The system retrieves all donation records associated with the logged-in user ID and displays them in a list sorted by date (newest first). If no history exists, a friendly placeholder message indicating 'No donations yet' should be displayed.											
Dependencies	FR7: Record blood donations											
Priority	Essential	Conditional	-	Optional	-							
Change History												

Requirement ID	FR-9	Requirement Type		Functional	Use Case #		UC-01
Status	New	Agreed-to		-	Baselined		-

Parent Requirement #	None							
Description	The system must allow users to generate a formal request for blood by specifying the required blood group, the number of units needed, the hospital location, and the urgency level.							
Rationale	This feature is the primary utility for recipients. It ensures that structured, actionable information reaches potential donors or the admin, facilitating a quick response to medical emergencies.							
Source	Core Business Logics			Source Document	SRS Initial Draft v1.0			
Acceptance/Fit Criteria	The request form must capture all mandatory fields including blood type, units, and location. Upon submission, the system creates a new request record with a unique ID and sets its initial status to 'Open' or 'Pending' for donors to see.							
Dependencies	FR2: Log in using valid credentials							
Priority	Essential	Conditional	-	Optional	-			
Change History								

Source	User Feedback	Source Document	UI Mockups v1
Acceptance/Fit Criteria	The page must list all requests initiated by the current user, displaying key details like date, blood type, and status. The status indicator should visually distinguish between 'Fulfilled' (e.g., green) and 'Pending' (e.g., yellow) requests.		
Dependencies	FR10: Submit a blood request		
Priority	Essential Conditional - Optional -		
Change History			

Rationale	This improves the User Experience (UX) by providing a quick snapshot of the most relevant recent events, saving the user time from navigating to separate history pages to check updates.							
Source	UX Design Team			Source Document	Dashboard Wireframe			
Acceptance/Fit Criteria	The system retrieves the 5 most recent timestamps from both the donation and request logs. These events are merged, sorted chronologically, and displayed on the dashboard with clear descriptions (e.g., "You donated blood on [Date]").							
Dependencies	FR7: Record blood donations AND FR10: Submit a blood request							
Priority	Essential	Conditional	-	Optional	-			
Change History								

Requirement ID	FR-17	Requirement Type		Functional	Use Case #		UC-01			
Status	New	Agreed-to	-	Baselined	-	Rejected	-			
Parent Requirement #	None									
Description	The system must calculate and display an impact summary for the donor, such as "Total Liters Donated" or an estimated "Lives Saved," based on their donation history.									
Rationale	Showing the tangible impact of their actions serves as a powerful psychological reward and gamification element, encouraging donors to maintain a regular donation schedule.									
Source	Marketing / Engagement			Source Document	User Retention Strategy					
Acceptance/Fit Criteria	The system applies a predefined formula (e.g., 1 unit saves 3 lives) to the user's total donation count. The result is calculated dynamically and displayed as a prominent badge or counter on the user's profile to incentivize further donations.									
Dependencies	FR7: Record blood donations									
Priority	Essential	Conditional	-	Optional	-					
Change History										

Non-Functional Requirements & System Attributes

- Availability:** The system shall maintain an uptime of **99% or higher**.
- Performance:** User requests shall be processed within **2 seconds** under normal load.
- Data Security:** All user data and blood donation records shall be **encrypted** and stored securely.
- Access Control:** The system shall enforce **strict authentication and authorization** mechanisms.
- Usability:** The user interface shall be **responsive** and functional across multiple devices and browsers.
- Scalability:** The design shall **support growth**, accommodating an increasing number of users and transactions.

- **Data Integrity & Recovery:** The system shall **ensure data integrity** and support **backup and recovery** in case of failures.
- **Reliability:** Notifications for blood requests and donor status shall be **timely and dependable**.
- **Compliance:** The system shall **adhere to relevant health regulations and privacy laws**.

PERFORMANCE REQUIREMENTS

1 Real-Time Data Updates

- The system shall reflect donor availability and blood request status **instantly** across all dashboards (user, hospital, admin).
- Hospitals and admins shall see **live updates** when users register, donate, or submit requests.

2 Fast Search and Retrieval

- The donor search feature shall return results **within seconds**, even under high load.
- Blood request history and donation logs shall be **quickly accessible** from the user dashboard.

3 Concurrent User Handling

- The system shall support **multiple users accessing and updating data simultaneously** without delays or data conflicts.
- Admin and hospital dashboards shall remain **responsive** during peak usage.

4 Low Latency for Critical Actions

- Actions such as submitting a blood request or updating donor status shall be completed with **minimal latency** to ensure timely response in emergencies.

5 Efficient Dashboard Refresh

- Dashboards shall **refresh and sync data seamlessly**, with **no noticeable lag**, particularly for hospital staff monitoring blood availability.

6 Scalability

- The system shall **scale efficiently** to handle increasing numbers of users, donors, and hospitals **without performance degradation**.

4+1 ARCHITECTURE VIEW MODEL

LOGICAL VIEW (CLASS DAIGRAM)

This view represents the object-oriented structure and functional requirements, focusing class hierarchies and interactions.

Key Classes:

- **User (Abstract)**: Base entity containing authentication details (Name, Email, Role).
• **Donor**: Extends User; stores Blood Group, Availability, and Impact Score.
• **Hospital/Admin**: Extends User; manages inventory and system oversight.
• **Blood Request**: Encapsulates urgency, blood type, and status (Pending/Approved).

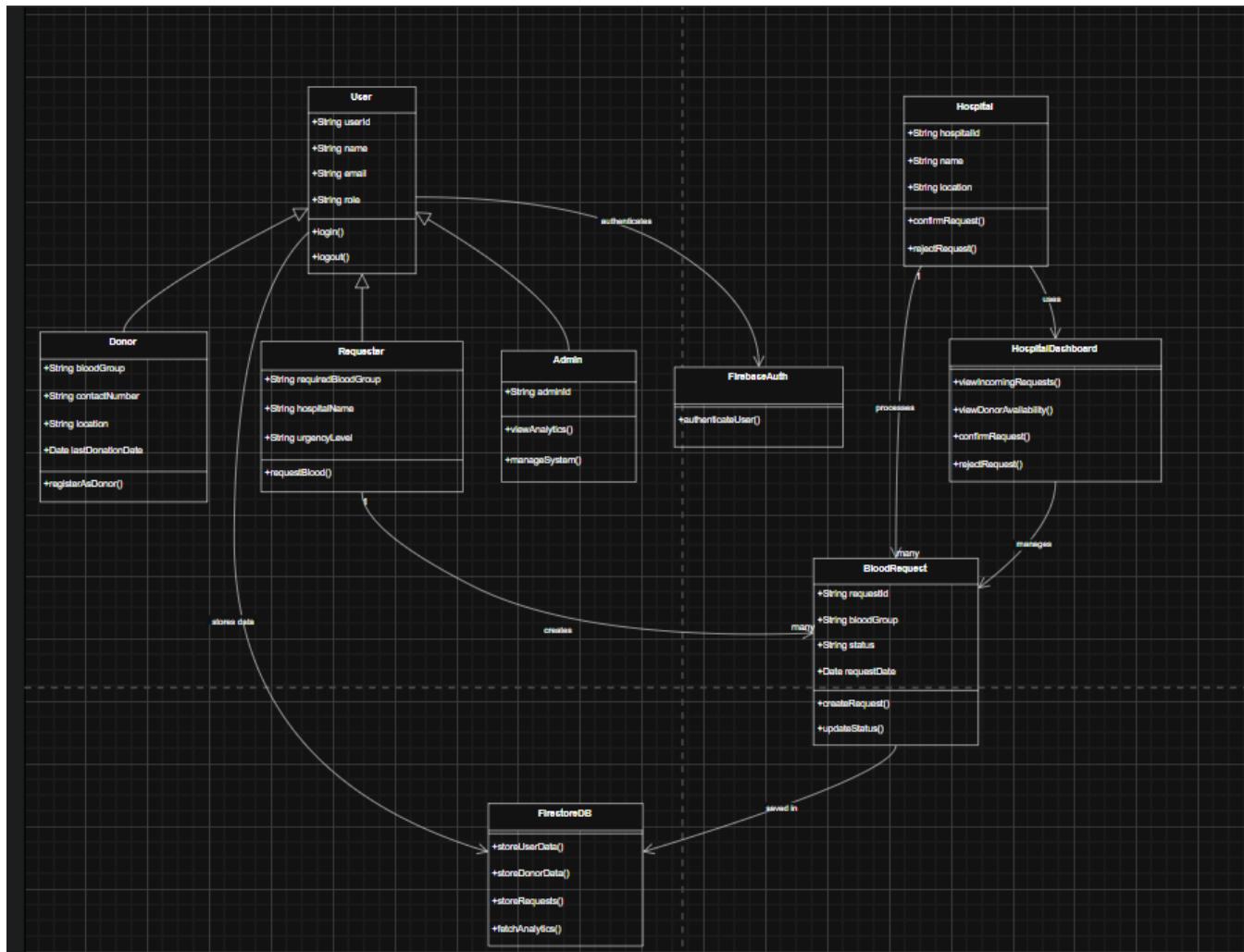


Image 1

DEVELOPMENT VIEW (COMPONENT DAIGRAM)

This view details the software organization, structured as a 3-Tier Layered Architecture to ensure modularity.

- **Presentation Layer (Frontend):** Responsive User, Hospital, and Admin dashboards accessible via web browsers.
- **Business Logic Layer (Backend):**
 - **Auth Module:** Manages secure login and session validation.
 - **Core Services:** Handles algorithms for donor searching, request processing, and statistical aggregation.
 - **Data Access Layer:** A unified interface interacting with the Shared Database to store profiles, logs, and transaction history.

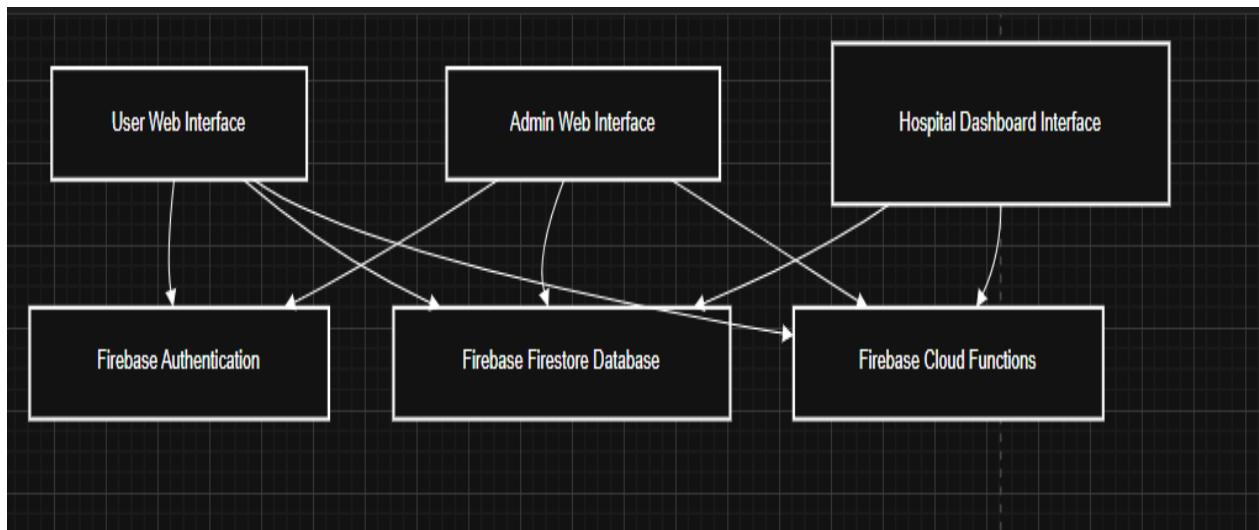


Image 2

PROCESS VIEW (Activity Daigram)

This view addresses the system's **runtime behavior, concurrency, and performance attributes**.

1. **Real-Time Synchronization**
 - Concurrent processes ensure that when a donor updates availability, **hospital and admin dashboards** reflect the change **instantly**.
2. **Query Optimization**

- Search algorithms are **optimized** to filter donors by location and blood group **within seconds**, even under high load.

3. Session Management

- Background processes manage **secure session lifecycles**, ensuring automatic termination upon logout to maintain security.

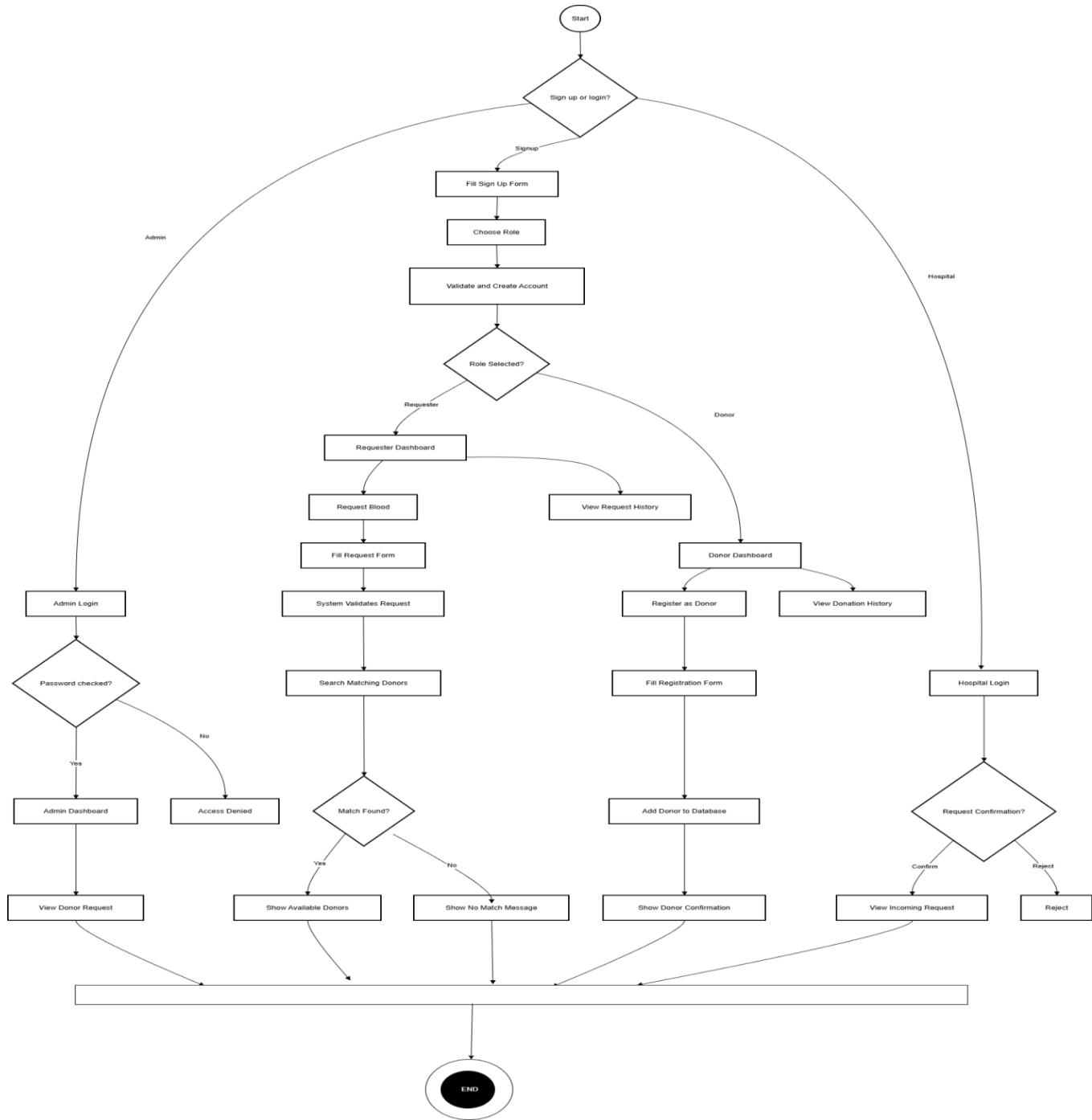


Image 3

PHYSICAL VIEW (DEPLOYMENT DAIGRAM)

This view maps the software components to the hardware infrastructure required for Deployment

- **Client Tier:** End-user devices (Smartphones, Laptops, Tablets) running modern web browsers.
- **Application Server Tier:** Hosts the backend logic and API endpoints, handling HTTP/HTTPS requests over the internet.
- **Data Tier:** A secure, encrypted database server responsible for persisting sensitive user data and medical records

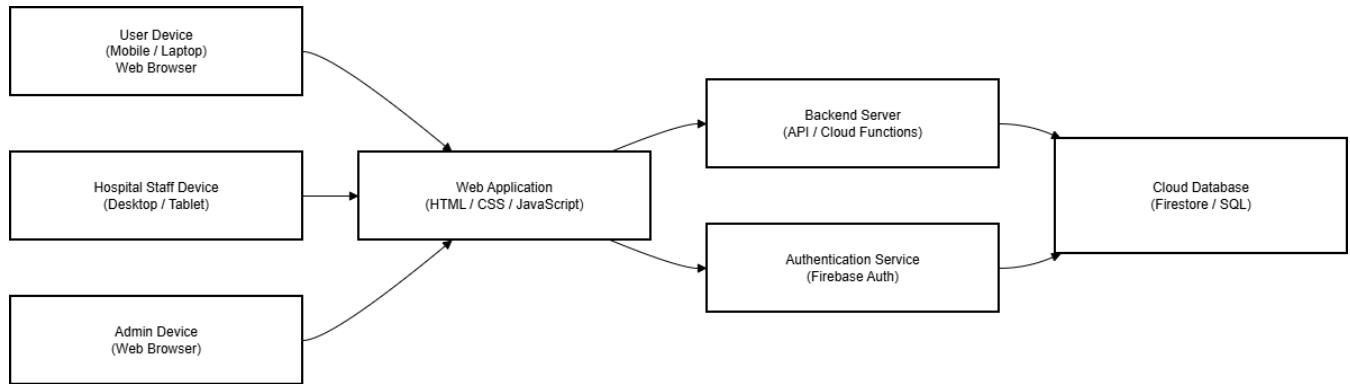


Image 4

USE CASE DAIGRAM

This view captures the functionality of the system from the perspective of external actor defining the boundaries and interactions of the Pulse Chain system.

Primary Actors:

1. **Donor** – The person who donates (blood, organs, money, or resources depending on the system).
2. **Requester** – The person who requests the donation (patient or beneficiary).
3. **Hospital Staff** – Medical personnel who manage requests, donations, and related processes.

Secondary Actors (support the system, not direct users):

1. **Backend System** – The server, database, and logic layer that processes requests, stores data, and communicates between primary actors.
2. **Admin** – Oversees the system, manages users, monitors activities, and handles approvals.

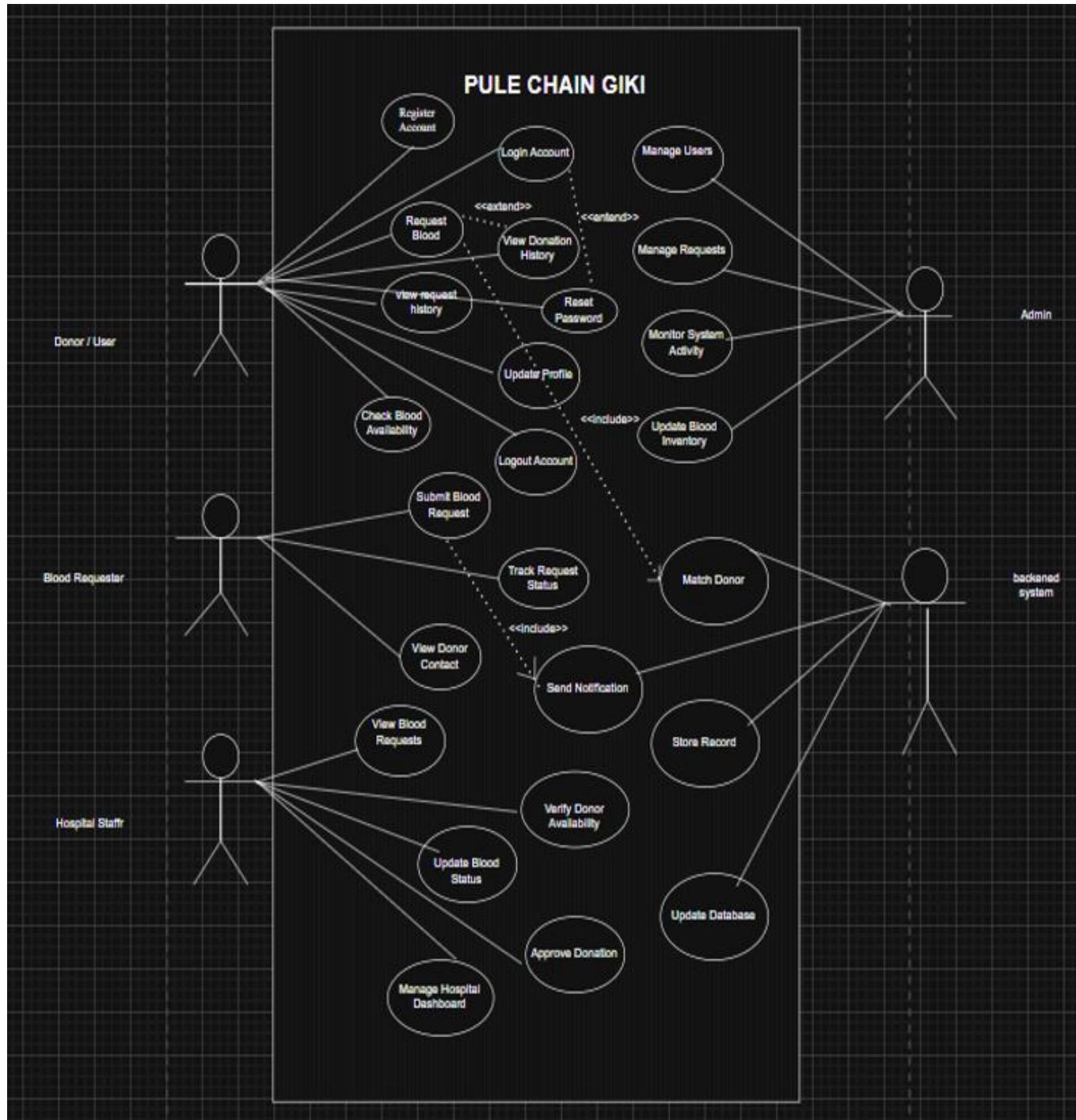


Image 5

USER INTERFACE

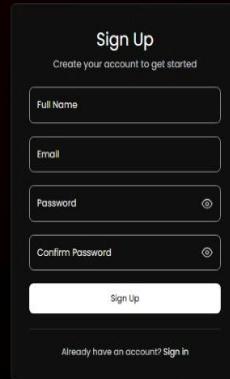
The dashboard screen displays the following information:

- Pulse Chain GIKI** logo and title.
- Dashboard** section.
- Search bar:** Search donors, requests...
- Left sidebar menu:**
 - Home
 - Hospital Dashboard
 - Donate Blood
 - Request Blood
 - My History
 - Profile
- Quick Actions:**
 - MY DONATIONS:** 0 Total times donated
 - MY REQUESTS:** 0 Blood requests made
 - AVAILABLE NOW:** - Check availability
- PULSE CHAIN GIKI** heading.
- Your Gateway to Saving Lives** heading.
- Join our community of donors and help save lives. Every donation makes a difference. Register as a donor or request blood when needed.**
- Buttons:** Register as Donor, Request Blood.
- Quick Actions:** Quick Actions section with two cards:
 - DONATE BLOOD:** Register yourself as a blood donor and help save lives.
 - REQUEST BLOOD:** Search for available blood donors in your area.
- Login:** Click to sign in.

The landing page screen displays the following information:

- Pulse Chain GIKI** logo and title.
- Quick Actions** section.
- Left sidebar menu:**
 - Home
 - Hospital Dashboard
 - Donate Blood
 - Request Blood
 - My History
 - Profile
- Quick Actions:**
 - DONATE BLOOD:** Register yourself as a blood donor and help save lives.
 - REQUEST BLOOD:** Search for available blood donors in your area.
- Recent Activity** section.
 - All** (selected), **Donations**, **Requests** buttons.
 - No recent activity:** Start by donating blood or making a request.
- Login:** Click to sign in.

Landing page



A dark-themed sign-up form titled "Sign Up". It includes fields for "Full Name", "Email", "Password", and "Confirm Password". A "Sign Up" button is at the bottom, and a "Sign In" link is below it.

Sign Up

Create your account to get started

Full Name

Email

Password

Confirm Password

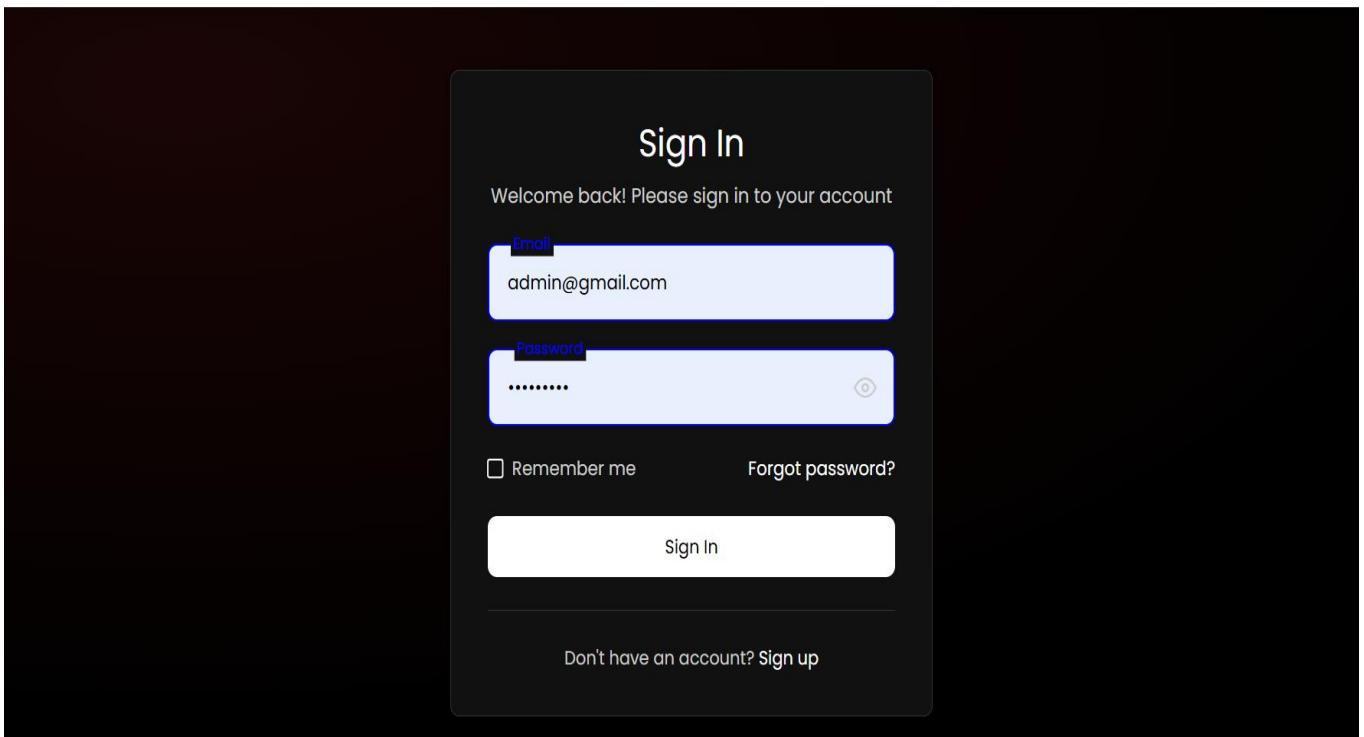
Sign Up

Already have an account? [Sign In](#)

Sign-Up



Account Registered



Admin/Sign-In

The dashboard has a dark header with the title "Hospital Dashboard" and a sub-header "HOSPITAL BLOOD BANK". It includes a search bar for "Search blood groups...". On the left is a sidebar with navigation links: Home, Request Donor, Donate Blood, Request Blood, My History, and Help. The main content area is titled "Blood Inventory & Request System" with a sub-instruction: "View available blood groups, check inventory levels, and request blood from registered donors when needed." It features a "Blood Group Inventory" section with six boxes showing counts for A+, B+, O+, AB+, A-, and O-. Below this is a "Request Blood from Donors" section with dropdown menus for "Blood Group" (set to "All Blood Groups") and "Availability" (set to "Available Only"), and a "Search" button.

Blood Inventory Dashboard

Pulse Chain GIK

Request Blood

Search for Available Donors

Blood Group	Availability	Action
All Blood Groups	Available Only	Search
Homodomin	Yes	Request Blood
homodomin	Yes	Request Blood
notno	Yes	Request Blood
notno	Yes	Request Blood
Homog Blodd	Yes	Request Blood
homodomin	Yes	Request Blood

Request Blood

Pulse Chain GIK

Analytics & Insights

Search donors, requests... Refresh

Blood Group Distribution

Blood Group	Count
A+	4
O-	1
O+	3
B-	1

Gender Distribution

Gender	Count
Male	3
Female	2

Availability Status

Status	Count
Available	3
Unavailable	1

Donations Over Time

Month	Count
Nov 2025	3
Dec 2025	4

Blood Requests Over Time

Month	Count
Nov 2025	3
Dec 2025	2

Requests by Blood Group

Blood Group	Count
A+	1
AB-	1
B+	1
O+	1
O-	1

Monthly Trends

Month	Category	Count
Nov 2025	Donations	3
Nov 2025	Requests	4
Dec 2025	Donations	4
Dec 2025	Requests	1

Analytics and Insights

GITHUB COMMITS:

<https://github.com/Ahsanaseer/Pulse-Chain-GIKI.git>

The screenshot shows the GitHub repository page for 'Pulse-Chain-GIKI'. At the top, there are navigation links: Code, Issues, Pull requests, Actions, Projects, Security, and Insights. Below the header, the repository name 'Pulse-Chain-GIKI' is shown as public. There are buttons for Watch (0), Fork (0), and Star (0). The main area displays a list of recent commits:

Author	Commit Message	Date
Ahsanaseer	SignUp Working ✓	9bd533b - 5 hours ago
PICS	Small Changes	last month
css	SignUp Working	5 hours ago
js	Trying to clean URL self	last week
admin-dashboard.html	Red Theme Added	5 days ago
donate.html	Trying to clean URL self	last week
history.html	Responsiveness Handled	last week
hospital-dashboard.html	Responsiveness Handled	last week
index.html	Trying to clean URL self	last week

On the right side, there is an 'About' section with the following details:

- Pulse Chain GIKI, a blood donation system
- Activity
- 0 stars
- 0 watching
- 0 forks
- Report repository

Below the 'About' section are sections for 'Releases' (No releases published) and 'Packages'.

The screenshot shows the 'Commits' page for the 'Pulse-Chain-GIKI' repository. At the top, there are navigation links: Import favorites, C++ Shell - About c..., BLACK NOVEMBER..., ChatGPT, and YouTube. The main title is 'Commits'. On the right, there are dropdowns for 'Ahsanaseer' and 'All time'. The commits are listed in a tree structure:

- o- Commits on Dec 16, 2025
 - SignUp Working**
Ahsanaseer committed 5 hours ago · ✓ 3 / 3
- o- Commits on Dec 15, 2025
 - Login Input Color Changed**
Ahsanaseer committed yesterday · ✓ 3 / 3
- o- Commits on Dec 11, 2025
 - Red Theme Added**
Ahsanaseer committed 5 days ago · ✓ 3 / 3
- o- Commits on Dec 7, 2025
 - Trying to clean URL self**
Ahsanaseer committed last week · ✓ 3 / 3

Commits on Dec 7, 2025

Trying to clean URL self

Ahsanaseer committed last week · ✓ 3 / 3

d294986 ⌂ ↗

Trying to clean URL self

Ahsanaseer committed last week · ✓ 3 / 3

ba13034 ⌂ ↗

Trying to clean URL agin again again

Ahsanaseer committed last week · ✓ 3 / 3

c644261 ⌂ ↗

Trying to clean URL agin again

Ahsanaseer committed last week · ✓ 3 / 3

7070e90 ⌂ ↗

Trying to clean URL agin

Ahsanaseer committed last week · ✓ 3 / 3

42f63ee ⌂ ↗

Trying to clean URL

Ahsanaseer committed last week · ✓ 3 / 3

c5673ca ⌂ ↗

Responsiveness Handled

Ahsanaseer committed last week · ✓ 3 / 3

72bd95e ⌂ ↗

Search Bar Is Working Now

Ahsanaseer committed last week · ✓ 3 / 3

cef1f7a ⌂ ↗

Commits on Dec 1, 2025

Added Email Functionality

Ahsanaseer committed 2 weeks ago · ✓ 3 / 3

1e1a69b ⌂ ↗

Commits on Nov 30, 2025

Loader Added For Login/Sign Up

Ahsanaseer committed 2 weeks ago · ✓ 3 / 3

7e07ede ⌂ ↗

Cleaned Profile Modal Code

Ahsanaseer committed 2 weeks ago · ✓ 3 / 3

d6ceab ⌂ ↗

Flash Issue Fixed

Ahsanaseer committed 2 weeks ago · ✓ 3 / 3

9550fc4 ⌂ ↗

Flash Issue Fixed

Ahsanaseer committed 2 weeks ago · ✓ 3 / 3

4c0c7ab ⌂ ↗

CODE SCREENSHOTS

This screenshot shows the VS Code interface with the file `admin-dashboard.html` open in the editor. The code is an HTML file for an admin dashboard, featuring a header with meta tags, a title, and links to CSS and JS files. It includes a sidebar with a logo and a menu. The code is syntax-highlighted in green, red, and blue.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Admin Dashboard - Pulse Chain GIKI</title>
    <link rel="icon" type="image/png" href="PICS/Pulse_Chain_GIKI.png">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800&display=block" rel="stylesheet">
    <link href="css/base.css" rel="stylesheet">
    <link href="css/style.css" rel="stylesheet">
    <script src="https://cdn.jsdelivr.net/npm/chart.js@4.0/dist/chart.umd.min.js"></script>
</head>
<body>
    <div class="dashboard-container">
        <!-- Sidebar -->
        <aside class="sidebar" id="sidebar">
            <div class="sidebar-logo">
                
                <div class="logo-text">Pulse Chain GIKI</div>
            </div>
            <nav class="sidebar-menu">
                <a href="#" class="menu-item active" data-page="dashboard">
                    <span class="menu-icon">
```

This screenshot shows the VS Code interface with the file `admin.js` open in the editor. The code defines several asynchronous functions for managing donors and requests. It imports functions from `donor.js` and `request.js`, uses `await` to handle promises, and returns objects containing success status and data arrays.

```
import { getAllDonors, deleteDonor, updateDonorAvailability, getFilteredDonors } from './donor.js';
import { getAllRequests, deleteRequest, updateRequestStatus } from './request.js';

export async function getAdminData() {
    try {
        const donorsResult = await getAllDonors();
        const requestsResult = await getAllRequests();

        return {
            success: true,
            donors: donorsResult.success ? donorsResult.donors : [],
            requests: requestsResult.success ? requestsResult.requests : []
        };
    } catch (error) {
        return { success: false, error: error.message };
    }
}

export async function adminDeleteDonor(donorId) {
    return await deleteDonor(donorId);
}

export async function adminDeleteRequest(requestId) {
    return await deleteRequest(requestId);
}
```

The screenshot shows a code editor interface with a dark theme. On the left is the Explorer sidebar, which lists several files and folders under the project 'PULSE-CHAIN-GIKI-MAIN'. The file '# hospital-dashboard.css' is currently selected. The main pane displays the content of this CSS file, which includes styles for a progress bar, a donor search section, a table responsive wrapper, and enhanced table styles for a hospital dashboard. The bottom status bar shows the file path 'Pulse-Chain-GIKI-main', line count 'Ln 1, Col 1', spaces used 'Spaces: 4', encoding 'UTF-8', and other status indicators.

```
# hospital-dashboard.css X
css > # hospital-dashboard.css > ...
53
54 .progress-fill {
55   height: 100%;
56   transition: width 0.6s ease-out;
57 }
58
59 /* Donor Search Section */
60 .donor-search-filters {
61   display: grid;
62   grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
63   gap: 16px;
64   margin-bottom: 20px;
65 }
66
67 /* Table Responsive Wrapper */
68 .table-wrapper {
69   overflow-x: auto;
70   margin-top: 20px;
71 }
72
73 /* Enhanced Table Styles for Hospital Dashboard */
74 .data-table tbody tr {
75   transition: background-color 0.2s ease;
76 }
77
78 .data-table tbody tr:hover {
79   background: var(--sidebar-hover);
80 }
81
82 /* React+Button Styles */
83
```

WORK DIVISION

Nabiha Nasir

Documentation Lead | Requirement Engineer | System Analyst

- Complete **project documentation** (SRS, final report, specifications)
- Requirements gathering and requirement analysis
- Functional and non-functional requirements documentation
- Use case descriptions and requirement traceability
- **All system diagrams** (Use Case, Class, Activity, Component, Deployment, 4+1 Architecture)
- System overview, scope definition, and literature review
- Documentation review, formatting, and final compilation

Ahsan Naseer

Frontend Developer | Backend Developer | Full Stack Developer

- Complete system development using **HTML, CSS, and JavaScript**
- Frontend UI implementation and dashboard development
- Backend development using **Firebase**
- Authentication and user management

- Database design and real-time data handling
- Integration of frontend with backend services
- Deployment and testing support

M. Hamdoon

Project Coordinator | Jira Manager

- **Jira project management** and sprint handling
- Task creation, assignment, and progress tracking
- Sprint planning and timeline coordination
- Team collaboration and workflow management
- Monitoring project milestones and deliverables

Irtaza Alyan

Documentation Support | Requirement Assistant

- Assistance in **documentation writing and refinement**
- Supporting requirement descriptions and validation
- Review of SRS and report sections
- Formatting and proofreading support

