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Patent Search

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Abstract:

The present invention is a comprehensive blood donation management system structured in a three-tier architecture comprising a Administration tier, a blood bank donor tier. The Administration tier manages a centralized blood bank database, processes blood requests, and allocates units using a real-time algorithm, while providing reporting, analytics, and notifications. The blood bank tier features inventory management to track stock and expiration dates, handles blood allocation and donor management, and provides feedback through reporting. The donor tier enables donors to manage accounts, schedule donations, request blood units, and receive notifications. The system enhances blood donation efficiency and awareness, optimizes inventory management, and streamlines communication among donors, blood banks, and Administration authorities, ultimately aiming to reduce blood scarcity and improve overall donation processes.

Complete Specification

Description: The system operates through the seamless integration of the three tiers, each serving a specific role:

1. Administration Side:

- o Blood banks register with the Administration tier, which collects and stores comprehensive data about each blood bank's inventory and location.
- o When a donor or healthcare facility requests blood, the Administration tier's request management system evaluates available blood units across all registered blood banks.
- o An allocation algorithm determines the best match for the request, considering factors such as blood type compatibility, inventory levels, and urgency.
- o Notifications are sent to relevant blood banks and donors to confirm the allocation and update them on the status of their request.

1. Donor Side:

- o Donors create accounts and provide personal and medical information, allowing them to manage their donation history and preferences.
- o They can schedule appointments to donate blood at their preferred time and location, increasing convenience and participation.

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