**Assignment 05**

**Sprint Retrospective for Sprint 2**

**Metropolitan Blood Donation and Transfer System**

By

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# **Table of Contents**

[**About** 3](#_Toc176525792)

[**Project Information** 3](#_Toc176525793)

[**Role and Responsibilities** 4](#_Toc176525794)

[**Sprint Reflections** 6](#_Toc176525795)

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# **About**

Our blood donation management system is made to simplify the blood donation procedure and improve its effectiveness and usability for hospitals, delivery personnel, and donors alike. Dedicated to improving the donor experience, we offer a user-friendly Donor Dashboard with easy navigation to other sites such as donor profiles, hospital listings, and donation requests. It also shows important metrics like total donations and forthcoming appointments.

Donors may easily manage their donation requests, change their personal information, and choose how they want to be notified. Through our Donor Hospitals page, they can also choose their preferred donation sites, examine comprehensive hospital information, and search for hospitals by geography. Notifications are also sent out in the event of important updates, such as impending donation appointments or the creation of requests that correspond with the blood type of the donor.

Our system provides hospitals with an extensive dashboard to arrange and monitor blood drives, manage blood inventories, and create and track blood requests. In order to protect sensitive data and maintain confidentiality, hospitals can safely register and log in, with access limited to authorised staff. Further streamlining blood management are low inventory notifications and a thorough audit record for inventory adjustments.

Our system combines sophisticated functionality and real-time updates to assist the whole blood donation process, whether you're a hospital managing critical resources or a donor tracking your contributions.

# **Project Information**

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| --- | --- |
| **Project ID & Title** | Metropolitan Blood Donation and Transfer System |
| **Project Client** | **Client Organization:** CTO at Employability. Life  **E-mail:** [**aphadke@atmc.edu.au**](mailto:aphadke@atmc.edu.au)  **Contact details:** 041 1334 107  **Client engagement preferences:** E-mail, on-line collaboration tool (Teams)  **Client Name-** Anirudh Phadke |

# **Role and Responsibilities**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Role | Responsibilities | Hours per Week | Duration of Sprint (Weeks) | List of Tasks completed |
| Scrum Master & Developer | Managing sprint planning, daily standups, and overall sprint progress while simultaneously developing the app, web interface, researching technologies, setting up the database. | 30 | 3 | * Display donor metrics, ensure error-free navigation, and make the dashboard responsive. * Allow donors to update profiles, validate inputs, and enable profile picture uploads on the Donor Profile page. * Show hospitals based on location, add search and filter options, and allow donors to select and view hospital details. * Display real-time status updates for donation requests, trigger notifications, and let donors customize notification preferences. * Implement hospital registration with confirmation emails, ensure login authentication, and provide password reset functionality. * Display hospital services in real-time, enable service management (add, update, delete), and restrict access to authorized users. * Allow hospitals to create, update, and cancel blood requests with real-time updates and error validation. * Manage blood inventory by allowing hospitals to add/remove units, notify them when inventory is low, and maintain an audit trail. * Notify donors when matching blood requests are created and allow hospitals to customize notification methods. * Make notifications actionable for donors, allowing them to view request details and respond accordingly. |

# **Sprint Reflections**

1. What did I accomplish in the past sprint?

Significant strides were achieved in the last sprint to enhance the platform's experiences for hospitals and donors. Important components of the donor dashboard were put into place, making it simple for users to see information about their blood group, future appointments, and total donations. A smooth user experience was ensured by streamlining the navigation between pages. To improve personalisation, we enabled error validation, profile photo uploads, and profile changes on the Donor Profile page.

In addition to creating a fully working Hospital Dashboard with real-time service and inventory management, we also constructed a secure registration and login process with password reset features for hospitals. The capabilities for creating, updating, and managing blood requests as well as notifying donors when a request fits their blood type have been finished, allowing hospitals to operate these functions effectively.

Major achievements:

* Upgraded Donor Dashboard and Profile Functionality
* A functional dashboard for hospitals and service management
* Creation and notifications of blood requests automatically

1. How did I apply stream specific knowledge to my project?

Through the use of software development and fundamental health informatics concepts, I was able to apply my stream-specific expertise to my project and expedite the blood donation procedure. My ability to build features that satisfy the requirements of hospitals, delivery personnel, and donors stems from my understanding of the intricacies of healthcare workflows. To ensure that hospitals can monitor stock levels, receive notifications about low inventory, and keep an audit trail for accountability, I, for instance, used my understanding of inventory management systems to build an effective blood inventory management feature.

Furthermore, I was able to develop user-friendly interfaces like the Donor Dashboard and Hospital Dashboard because to my experience in user experience design. These interfaces make it simple for users to browse through important services like donation requests, profile management, and service updates. Through the integration of my technical expertise and healthcare domain-specific knowledge, I have developed a holistic platform that improves operational efficiency and user experience for all parties involved.

1. What did I learn from in the past sprint?

I learned a lot during the last sprint about how crucial it is to improve the user experience across all interfaces. I became aware of how important it is to give consumers real-time feedback and notifications in order to keep them interested and informed by concentrating on both the donor and hospital workflows. I also discovered how important thorough error validation is to ensuring that users can engage with the platform without needless annoyance, especially for functionality like inventory management, request creation, and profile modifications. The necessity for a unified design that adjusts to different screen sizes was brought to light after testing the dashboard's responsiveness across a range of devices. Furthermore, the integration of notifications and the provision of accurate real-time data visualisation aided in my comprehension of the significance of inter-component communication. Overall, this sprint underscored the need for thorough testing and continuous iteration to create a user-friendly, reliable product.

1. What could have gone better in the sprint?

The sprint included several areas where time management and job prioritisation might have been strengthened. While the majority of the essential features were finished, several jobs were hurriedly finished towards the end, like improving the Donor Hospitals page's search functionality and donors' notification preferences. The overall shine of those characteristics was impacted by this.

Furthermore, a greater emphasis on bug fixes and early testing would have avoided certain last-minute fixes. It became clear that conducting mini-sprint reviews or more frequent check-ins could have assisted in identifying possible problems early on and rearranging priorities in light of what was taking longer than anticipated.

Finally, delays brought on by misplaced expectations might have been avoided with improved communication between the QA and development teams. It would have also streamlined the testing process if there had been more cooperation in defining the acceptance criteria early in the sprint.

Self-Retrospective

<https://youtu.be/DKHBTHDR8Gs>