**Assignment 04**

**Sprint Retrospective for Sprint 1**

**Metropolitan Blood Donation and Transfer System**

By

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# **About**

The purpose of this project is to offer a comprehensive blood donation management system for metropolitan regions, with a focus on improving communication among hospitals, delivery staff, and blood donors. A web interface allows hospitals to use the system, while a mobile app is available for donors and delivery staff. The project's goal is to improve the responsiveness and efficiency of the blood donation process by optimising blood unit transportation, donor management, and data synchronisation among all stakeholders.

The first sprint was primarily focused on laying the groundwork for the system. This included creating a robust database, researching and selecting the appropriate technology, and honing relevant programming skills. To ensure secure data storage in the backend database, the initial phase also involved the creation of a mobile application that successfully integrated signup and login functions, complete with validation and authentication protocols.

# **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**

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| --- | --- | --- | --- | --- |
| 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. | 40 | 3 | * Research & Selection of Technologies. * Database Setup. * Learning and Upskilling (Programming languages and Tools). * Mobile App Development (signup and sign in) * User Authentication and Validation. * Backend Integration. |

# **Sprint Reflections**

1. What did I accomplish in the past sprint?

During the previous sprint, I was able to efficiently construct the foundation of the project by focusing on critical components of project management, development, and research. As Scrum Master and Developer, I spent a lot of time ensuring that the sprint was effective and on time. I began by researching the technologies that would be most effective for the project, and then I established a robust database to aid in the administration and archiving of donor, hospital, and blood unit data. To ensure a smooth execution, I used the chance to brush up on my knowledge of backend technologies, mobile app development, and React Native.

I successfully constructed the mobile app's fundamental sign-up and login features. This included implementing safe authentication processes and validation checks. Finally, I handled all Scrum-related responsibilities, such as sprint planning, daily standups, and the retrospective, ensuring that each development was regularly evaluated and adjusted as needed.

Key Accomplishments:

* Researched and selected key technologies for the project.
* Set up and configured the backend database.
* Enhanced skills in React Native and Django backend integration.
* Developed the mobile app's signup and login functionality with validation and authentication.
* Managed all Scrum activities, including sprint planning, Jira Board.

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

I applied my understanding of software development and project management, as well as my stream-specific experience, throughout Sprint 1. During the development stage, I used my mobile app development knowledge to construct a functional sign-up and login system. I used my knowledge of database design to create a structured backend that kept data safe and easily accessible. Using Scrum methodologies for project management, I was able to maintain open communication between all stakeholders through daily standups and retrospectives while ensuring that all tasks were completed within the sprint time limit.

My technological abilities also enabled me to swiftly integrate the selected technologies, guaranteeing that the front-end application and the back-end database would work together. My understanding of authentication and data security concepts was essential to putting secure user validation into practice and preserving the integrity of the system.

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

I gained a number of valuable insights from Sprint 1 that will guide the project's subsequent stages. First of all, especially while dealing with secure databases, I developed a greater awareness of the technological challenges associated with integrating user authentication and validation processes. I also came to understand how crucial it was to strike a balance between my responsibilities as a Scrum Master and my development job in order to maintain efficient project coordination and technical advancement.

Additionally, I discovered how important thorough research is in choosing the best technologies for the job. As a result, I was able to proceed with confidence and prevent any potential development bottlenecks. Finally, I learned how crucial it is to hold frequent retrospectives in order to pinpoint areas that still require improvement for upcoming sprints and to promote continual workflow improvement.

1. What could have gone better in the sprint?

Despite being successful and hitting several important milestones, Sprint 1 had certain shortcomings. A primary obstacle I faced was managing my time effectively, particularly while juggling my twin responsibilities as a developer and a scrum master. It became challenging to give both project coordination and hands-on development the same amount of attention when wearing both hats because there were times when the priorities overlapped. Tasks requiring intense concentration, such troubleshooting the authentication system, were occasionally delayed as a result of this.

One such area where things may have gone more smoothly was the preliminary research stage. Even though I ultimately chose the appropriate technologies, a more exhaustive preliminary investigation could have prevented time wastage during the sprint. For example, after the first setup, I had to modify the database structure a little bit because the project needs changed. This may have been averted in the early phases with more thorough preparation.

Furthermore, there was room for improvement in both documentation and communication. Even though I did a good job managing the Scrum events, there were times when having more thorough documentation of choices and developments may have made future development or troubleshooting procedures easier. I intend to spend some work on documentation when I move into the following sprint in order to prevent problems of this nature.