* **Module Breakdown & Responsibilities**

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| **Module** | **Assigned Member** | **Responsibilities** |
| User Role Management & Authentication | Shafayat Yeamin Jian | Define abstract User class, manage login and roles |
| Inventory Control & Request Allocation | Md. Asikujjaman | Track blood stock and fulfill hospital requests |
| GUI Design & Integration | Saber Mahmud Sarker | Design and connect the graphical user interface |
| Database & Persistence | Emdad Hossen Bhuyan | Manage data storage and SQLite integration |
| Documentation & UML Reports | Md. Rafiul Karim | Create system documentation and UML diagrams |

* **Technology Stack**
* **Java –** Core Programming
* **JavaFX –** GUI Framework
* **SQLite –** Data persistence
* **VS Code & IntelliJ IDEA** – Development Environment
* **GitHub –** Version Control & collaboration
* **Lucidchart** – UML Diagram creation
* **Project Timeline**

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| **Week** | **Milestones** |
| 1st | Finalize requirements, draft UML diagrams, Module planning |
| 2nd | Code module implementation & development |
| 3rd | Integrate GUI with backend services |
| 4th | Testing – unit, integration and user acceptance |
| 5th | Documentation/Report writing, polish UI (If needed) and presentation preparation |