**1.3 Project Role Identification and Responsibilities**

For the BloodLink project, the team adopted a structure where each member assumed leadership over specific domains. This approach enabled the assignment of tasks based on individual expertise, covering all project phases from initial ideation and system architecture to detailed documentation and planning.

**Nuha – Project Visionary & System Architect**

Nuha was responsible for the project's initial concept and its technical foundation. She initiated the project and translated its vision into a concrete architectural design.

* **Key Responsibilities:** Formulating the initial project idea, drafting the project proposal, and designing the entire system architecture.
* **Role Across Project Stages:**
  + **Requirements Gathering:** Initiated the project by conceptualizing the idea and creating the first draft of the **Project Proposal**.
  + **Design:** This was Nuha's primary area of contribution. She was solely responsible for creating all essential system diagrams: the **Use Case Diagram**, **Class Diagram**, **Activity Diagram**, and **Data Flow Diagram (DFD)**.

**Maoun – Project Manager**

As the Project Manager, Maoun was responsible for finalizing the project's scope and ensuring the team's work was coordinated and aligned with the stated objectives.

* **Key Responsibilities:** Finalizing core project documentation, managing team coordination, and overseeing the project's overall progress.
* **Role Across Project Stages:**
  + **Requirements Gathering:** Assumed responsibility for editing and **finalizing the Project Proposal** from the initial draft, ensuring it was comprehensive and polished.
  + **Management:** Maintained oversight throughout all project phases to ensure all deliverables were integrated smoothly.
  + **Final Decision-Making:** Held the primary responsibility for final decisions regarding the project's scope and deliverables.

**Rezwoan – UI/UX Designer, Process Lead & Lead Tester**

Rezwoan was responsible for the user-centric and process-oriented aspects of the project. This included writing detailed specifications, designing the user interface, and defining the development and quality assurance workflows.

* **Key Responsibilities:** Authoring detailed requirement documents, designing the user interface, documenting the development workflow, and defining the project's testing strategy.
* **Role Across Project Stages:**
  + **Requirements Gathering:** Wrote the comprehensive **Software Requirements Specification (SRS)** and **Product Requirements Document (PRD)**.
  + **Design:** Created all the visual **Figma wireframes** and UI mockups for the application.
  + **Implementation:** To ensure a structured development process, he documented the **Git Workflow**, outlining version control practices for the team.
  + **Testing:** As the lead tester, he authored the **Testing** documentation, which outlined the plan for verifying the system's functionality.

**Soumik – Project Planner & Metrics Analyst**

Soumik was responsible for the analytical and quantitative aspects of the project, focusing on planning, estimation, and the measurement of the product's design quality.

* **Key Responsibilities:** Estimating project effort and cost, creating the project schedule, and applying software metrics to evaluate the system's design.
* **Role Across Project Stages:**
  + **Planning:** Led the **Project Estimation and Scheduling** (Part 3), defining timelines and forecasting the required effort.
  + **Quality Analysis:** Applied **Software Product Metrics** (Part 7) to the design. This role involved using formal metrics to analyze the complexity, maintainability, and quality of the system's structure, which is distinct from functional testing.

**Distribution and Justification of Responsibilities**

The distribution of these roles and responsibilities was based on the specific skills and expertise of each team member.

* **Decision Making:** **Maoun** held final decision-making authority as the Project Manager. Key technical decisions related to system structure were made by **Nuha**.
* **Quality Assurance:** Quality Assurance was a dual responsibility. **Rezwoan** led the process-oriented side by defining the **testing strategy**. **Soumik** handled the data-oriented side by using **software metrics** to analyze the quality of the design itself.
* **Resource Management:** This was managed by **Soumik**, who created the schedule and effort estimates, with oversight from **Maoun**.