

This Gantt chart illustrates the project timeline and task details for the Blood Donation System.

Initiation Phase:

- Task 1: Initiation** (Nov 1 - Nov 15, 2025)
 - Sub-tasks: Requirement Gathering, Define Project Scope, Receive Stakeholder Input, Assess Feasibility, Site Selection.
- Task 1.1: Requirement Gathering** (Nov 1 - Nov 5, 2025)
- Task 1.2: Define Project Scope** (Nov 1 - Nov 5, 2025)
- Task 1.3: Receive Stakeholder Input** (Nov 1 - Nov 5, 2025)
- Task 1.4: Assess Feasibility** (Nov 1 - Nov 5, 2025)
- Task 1.5: Site Selection** (Nov 1 - Nov 5, 2025)

Sprint Backlog Phase:

- Task 2: Sprint Backlog** (Nov 11 - Nov 19, 2025)
 - Sub-tasks: Requirements Definition, Feature Creation, Create Project Plan, Risk Assessment.
- Task 2.1: Requirements Definition** (Nov 11 - Nov 15, 2025)
- Task 2.2: Feature Creation** (Nov 11 - Nov 15, 2025)
- Task 2.3: Create Project Plan** (Nov 11 - Nov 15, 2025)
- Task 2.4: Risk Assessment** (Nov 11 - Nov 15, 2025)

System Design Phase:

- Task 3: System Design** (Nov 18 - Nov 29, 2025)
 - Sub-tasks: RRD Design, UML Modeling, Style Guide.
- Task 3.1: RRD Design** (Nov 18 - Nov 22, 2025)
- Task 3.2: UML Modeling** (Nov 18 - Nov 22, 2025)
- Task 3.3: Style Guide** (Nov 18 - Nov 22, 2025)

Development Phase:

- Task 4: Development** (Nov 29 - April 2026)
 - Sub-tasks: User Authentication & Account Creation, Profile Components & KYC Verification, Blood Donation Request System, Real-Time Matching & Hospital Portal, Organ Donation System, Gamification & Recognition System, Smart Search & Location-Based Live Matching, Notification & Communication, Analytics & Reporting, Security Framework, Closure.
- Task 4.1: User Authentication & Account Creation** (Nov 29 - Dec 12, 2025)
 - Sub-tasks: Login/Signup Module, Profile Recovery, Basic Authentication, Testing & Review.
- Task 4.2: Profile Components & KYC Verification** (Dec 12 - Jan 12, 2026)
 - Sub-tasks: User Profile Creation, KYC Verification, Family Linking API.
- Task 4.3: Blood Donation Request System** (Jan 12 - Jan 19, 2026)
 - Sub-tasks: Full Donation Request, Donor Eligibility, Donation History, Testing.
- Task 4.4: Real-Time Matching & Hospital Portal** (Jan 19 - Feb 10, 2026)
 - Sub-tasks: Location-Based Matching, Hospital Portal API, Matching Algorithm, Testing.
- Task 4.5: Organ Donation System** (Feb 10 - Feb 27, 2026)
 - Sub-tasks: Legal Document Management, Donor Eligibility, Organ Donation Request, Testing & Review.
- Task 4.6: Gamification & Recognition System** (Feb 27 - March 15, 2026)
 - Sub-tasks: Gamification Features, Social Sharing, Leaderboards, Testing.
- Task 4.7: Smart Search & Location-Based Live Matching** (March 15 - March 28, 2026)
 - Sub-tasks: Public Donor Directory, Secure Call-Back, Emergency Exports, Testing & Review.
- Task 4.8: Notification & Communication** (March 28 - April 3, 2026)
 - Sub-tasks: SMS/Email, Emergency Alerts, Reminder Triggers, Testing.
- Task 4.9: Analytics & Reporting** (April 3 - April 10, 2026)
 - Sub-tasks: Donation Trends, Success Rates, Hospital Data, Testing & Review.
- Task 4.10: Security Framework** (April 10 - April 27, 2026)
 - Sub-tasks: Multi-Level Verification, Data Encryption, Fraud Detection, Testing & Review.
- Task 5: Closure** (April 27 - April 30, 2026)
 - Sub-tasks: Final Testing & Deployment, Regression Testing, Final Documentation.

Closure Phase:

- Task 5.1: Final Testing & Deployment** (April 27 - April 29, 2026)
- Task 5.2: Regression Testing** (April 29 - April 30, 2026)
- Task 5.3: Final Documentation** (April 30 - April 30, 2026)

Legend:

- Green: On Track
- Yellow: At Risk
- Red: Delayed
- Blue: Pending
- Grey: Completed

Workload:

The workload section at the bottom shows the cumulative hours assigned to tasks over time. The x-axis represents time from November 2025 to May 2026, and the y-axis represents the number of hours assigned to tasks.