

Project Initialization and Planning Phase

Date	14 May 2025
Student Name	Prathmesh Arvind Kumbhar
Project Name	BloodBridge: Optimizing Lifesaving Resources using RDS, EC2
Maximum Marks	4 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Sprint Start Date	Sprint End Date (Planned)
Sprint-1	User Onboarding & Role Setup	USN-1	As a user (donor/hospital), I can register and choose my role.	3	High	13 May 2025	15 May 2025
Sprint-1	Authentication Integration	USN-2	As a user, I can securely log in using AWS Cognito.	3	High	16 May 2025	17 May 2025
Sprint-1	Blood Inventory Input	USN-3	As a blood bank staff, I can enter blood stock details into the system.	3	High	18 May 2025	19 May 2025
Sprint-2	Blood Request Workflow	USN-4	As a hospital, I can request a specific blood type and see real-time availability.	4	High	20 May 2025	23 May 2025
Sprint-2	Notification System	USN-5	As a donor, I can receive notifications when blood is needed in my area.	3	Medium	24 May 2025	25 May 2025

Sprint-3	Dashboard for Admin	USN-6	As an admin, I can view all blood stocks, requests, and user activity.	5	Medium	26 May 2025	30 May 2025
Sprint-3	Audit & Logging (CloudWatch)	USN-7	As a developer/admin, I can track all operations and events using CloudWatch.	2	Medium	31 May 2025	01 June 2025
Sprint-4	UI/UX Enhancements	USN-8	As a user, I can interact with a clean, responsive interface.	3	Low	02 June 2025	03 June 2025
Sprint-4	Deployment Automation	USN-9	As a DevOps engineer, I can deploy updates via CI/CD pipelines.	2	Medium	04 June 2025	05 June 2025
Sprint-4	Final Integration Testing	USN-10	As a QA, I can run end-to-end tests to validate all workflows.	3	High	06 June 2025	07 June 2025
	Reserve Buffer / Contingency Time	—	For unexpected changes, fixes, or rollout support.	—	—	08 June 2025	13 June 2025