**Project Initialization and Planning Phase**



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| **Date** | 15 May 2025 |
| **Student Name** | Priyanka M. Shripannavar |
| **Project Name** | BloodBridge: Optimizing Lifesaving Resources using RDS, EC2 |
| **Maximum Marks** | 4 Marks |

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

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |