**Project Initialization and Planning Phase**

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| **Date** | 16 May 2025 |
| **Student Name** | Priyanka M. Shripannavar |
| **Project Name** | BloodBridge: Optimizing Lifesaving Resources using RDS, EC2 |
| **Maximum Marks** | 4 Marks |

**Project Proposal (Proposed Solution):**

Blood Bridge is a cloud-native application that:

* Uses AWS to host a reliable, scalable infrastructure.
* Offers REST APIs for donor registration, inventory updates, and request management.
* Provides real-time access to blood product availability.
* Implements secure login and role-based access for donors, staff, and hospitals.

**Features:**

* Real-time Inventory Dashboard
* Donor Management System
* Request Fulfillment Workflow
* Role-Based Access (Donor, Hospital, Admin)
* Audit Logs and Monitoring
* Secure Data Handling

**Benefits:**

* Faster blood availability
* Reduced wastage
* Improved emergency response
* Seamless coordination between stakeholders