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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_01** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Soumik Das Dipon | | |
| **Module Name: Auth Feature** | | | Test Execution date: 26/09/2025 | | |
| **Test Title: Verify user login with valid credentials** | | |  | | |
| **Description: Tests if a registered donor can successfully log in to the application** | | |  | | |
| **Precondition: The user must have a registered and active account.** | | | | | |
| **Dependencies: None** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Navigate to the login page. 2. Enter a valid registered email. 3. Enter the correct password. 4. Click "Login". | Email: donor@test.com, Password: Password123 | The user should be redirected to their personal dashboard. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_02** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Soumik Das Dipon | | |
| **Module Name: Auth Feature** | | | Test Execution date: 26/09/2025 | | |
| **Test Title: Verify user login with invalid credentials** | | |  | | |
| **Description: Tests if the system prevents access when incorrect login details are provided.** | | |  | | |
| **Precondition: The user attempts to log in.** | | | | | |
| **Dependencies: None** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Navigate to the login page. 2. Enter a valid registered email. 3. Enter an incorrect password. 4. Click "Login". | Email: donor@test.com, Password: WrongPassword | An error message "Invalid email or password" should be displayed. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_03** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Soumik Das Dipon | | |
| **Module Name: Auth Feature** | | | Test Execution date: 26/09/2025 | | |
| **Test Title: Verify new donor profile creation with valid data** | | |  | | |
| **Description: Test the user registration functionality.** | | |  | | |
| **Precondition: The user is not already registered with the provided email.** | | | | | |
| **Dependencies: None** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Navigate to the registration page. 2. Fill in all required fields. 3. Click "Register". | Name: John Doe, Email: johndoe.new@test.com, Blood Type: O+ | User account is created successfully and user is redirected to the login page or dashboard. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_04** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): Medium** | | | Test Executed by: Soumik Das Dipon | | |
| **Module Name: Donor Profile** | | | Test Execution date: 26/09/2025 | | |
| **Test Title: Verify donor can update their profile information** | | |  | | |
| **Description:**  **Tests if a logged-in donor can modify their personal details.** | | |  | | |
| **Precondition:**  **The user is logged in to their account.** | | | | | |
| **Dependencies:**  **A valid user session.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Navigate to "My Profile". 2. Click "Edit Profile". 3. Change the contact number. 4. Click "Save Changes". | New Contact Number: 01234567891 | A success message should be displayed and the new contact number should be visible. | | Page reloads, but the contact number remains unchanged. No success or error message is displayed. | Fail |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_05** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Sanjana Sayed Nuha | | |
| **Module Name: Auth Feature** | | | Test Execution date: 26/09/2025 | | |
| **Test Title: Verify the "Forgot Password" functionality** | | |  | | |
| **Description:**  **Tests if the password reset mechanism is working correctly.** | | |  | | |
| **Precondition:**  **The user has an existing account but has forgotten their password.** | | | | | |
| **Dependencies:**  **Email service integration must be functional.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Navigate to the login page. 2. Click "Forgot Password?". 3. Enter the registered email. 4. Click "Send Reset Link". | Email: donor@test.com | User should see a confirmation message and receive a password reset email. | | Confirmation message is shown, but no email is received after 10 minutes. | Fail |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_06** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): Medium** | | | Test Executed by: Sanjana Sayed Nuha | | |
| **Module Name: Donor Profile** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:** **Verify donor can view their donation history** | | |  | | |
| **Description:**  **Tests if past donation records are displayed correctly for a logged-in user.** | | |  | | |
| **Precondition:**  **The user is logged in and has made at least one donation previously.** | | | | | |
| **Dependencies:**  **A valid user session.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as a donor. 2. Navigate to the "Donation History" section. | None | A list of past donations should be displayed in chronological order. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_07** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Sanjana Sayed Nuha | | |
| **Module Name:**  **Blood Bank Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify blood bank staff can search for donors by blood type** | | |  | | |
| **Description:**  **Tests the donor search functionality for blood bank staff.** | | |  | | |
| **Precondition:**  **The user is logged in as Blood Bank Staff.** | | | | | |
| **Dependencies:**  **Multiple donors with different blood types exist in the database.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as Blood Bank Staff. 2. Navigate to "Search Donors". 3. Select "A+" from the filter. 4. Click "Search". | Blood Type: A+ | Search results should display a list of all registered donors with blood type "A+". | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_08** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Sanjana Sayed Nuha | | |
| **Module Name:**  **Blood Bank Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify donor search filter accuracy** | | |  | | |
| **Description:**  **Tests that the search filters are not returning incorrect results.** | | |  | | |
| **Precondition:**  **The user is logged in as Blood Bank Staff.** | | | | | |
| **Dependencies:**  **Database contains donors of types O+ and O-.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as Blood Bank Staff. 2. Navigate to "Search Donors". 3. Select "O+" from the filter and search. | Blood Type: O+ | The results should only display donors with blood type "O+". | | The search results list contains donors with both "O+" and "O-" blood types. The filter is not specific. | Fail |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_09** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Maoun Billah | | |
| **Module Name:**  **Hospital Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify hospital staff can create a blood request** | | |  | | |
| **Description:**  **Tests the blood request submission process for hospitals.** | | |  | | |
| **Precondition:**  **The user is logged in as Hospital Staff.** | | | | | |
| **Dependencies:**  **The system has available blood units.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as Hospital Staff. 2. Go to "Request Blood". 3. Select a blood type and enter units. 4. Click "Submit Request". | Blood Type: B-, Units: | Request is submitted successfully and appears in the "Pending Requests" list. | | User is redirected to a "500 Internal Server Error" page. The request is not created. | Fail |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_10** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High):**  **Medium** | | | Test Executed by: Maoun Billah | | |
| **Module Name: Admin Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify admin can view system logs** | | |  | | |
| **Description:**  **Tests if an administrator can access and view system activity logs.** | | |  | | |
| **Precondition:**  **The user is logged in as an Administrator.** | | | | | |
| **Dependencies:**  **There is recent user activity on the platform.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as an Administrator. 2. Navigate to "System Monitoring" -> "View Logs". | None | A chronological list of system events should be displayed. | | The page loads but the log area is empty with a "Failed to load" message. | Fail |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_11** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): Low** | | | Test Executed by: Maoun Billah | | |
| **Module Name:**  **Campaign Organizer Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify campaign organizer can create a new donation event** | | |  | | |
| **Description:**  **Tests the creation of a new blood donation campaign.** | | |  | | |
| **Precondition:**  **The user is logged in as a Campaign Organizer.** | | | | | |
| **Dependencies: None** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as a Campaign Organizer. 2. Go to "Campaigns" and click "Create New Event". 3. Fill in all event details. 4. Click "Save Event". | Event Name: City Center Blood Drive, Date: 30/09/2025 | Event is created successfully and appears in the "Upcoming Campaigns" list. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_12** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Maoun Billah | | |
| **Module Name:**  **Donor Profile** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify donor can schedule a new appointment at a campaign** | | |  | | |
| **Description:**  **Tests if a donor can sign up for an upcoming donation event.** | | |  | | |
| **Precondition:**  **The user is logged in as a donor, and an active campaign exists.** | | | | | |
| **Dependencies:**  **A valid user session.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as a donor. 2. Navigate to "Upcoming Events". 3. Select an event and time slot. 4. Click "Book Appointment". | None | Appointment is booked successfully and appears in the donor's "My Appointments" section. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_13** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High):**  **Medium** | | | Test Executed by: Din Muhammad Rezwoan | | |
| **Module Name:**  **Admin Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify admin can deactivate a user account** | | |  | | |
| **Description:**  **Tests the user management feature for administrators.** | | |  | | |
| **Precondition:**  **The user is logged in as an Administrator.** | | | | | |
| **Dependencies:**  **At least one active donor account exists.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as an Administrator. 2. Go to "User Management". 3. Search for a donor. 4. Click "Deactivate". 5. Confirm action. | User Email: johndoe.new@test.com | User's status changes to "Inactive" and they can no longer log in. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_14** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High):**  **Medium** | | | Test Executed by: Din Muhammad Rezwoan | | |
| **Module Name:**  **Blood Bank Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify blood bank staff can update blood unit inventory** | | |  | | |
| **Description:**  **Tests that staff can add new blood units to the system inventory.** | | |  | | |
| **Precondition:**  **The user is logged in as Blood Bank Staff.** | | | | | |
| **Dependencies:**  **A valid user session.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as Blood Bank Staff. 2. Go to "Inventory Management". 3. Click "Add New Unit" and fill details. 4. Click "Save". | Blood Type: AB+ | New blood unit is added to the inventory and visible with "Available" status. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_15** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): High** | | | Test Executed by: Din Muhammad Rezwoan | | |
| **Module Name:**  **Hospital Portal** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify hospital staff can view the status of their blood requests** | | |  | | |
| **Description:**  **Tests if hospital staff can track their submitted requests.** | | |  | | |
| **Precondition:**  **The user is logged in as Hospital Staff and has submitted at least one request.** | | | | | |
| **Dependencies:**  **A valid user session.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as Hospital Staff. 2. Navigate to the "Request History" page. | None | A list of all submitted blood requests with their current statuses should be displayed. | | As expected | Pass |

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| **Project Name: BloodLink** | | | **Test Designed by: Din Muhammad Rezwoan** | | |
| **Test Case ID: TC\_16** | | | Test Designed date: 26/9/2025 | | |
| **Test Priority (Low, Medium, High): Medium** | | | Test Executed by: Din Muhammad Rezwoan | | |
| **Module Name:**  **Donor Profile** | | | Test Execution date: 26/09/2025 | | |
| **Test Title:**  **Verify user cannot update their email to an existing email** | | |  | | |
| **Description:**  **Tests data integrity by preventing duplicate emails during profile updates.** | | |  | | |
| **Precondition:**  **Two distinct user accounts exist (donor@test.com and donor2@test.com). User donor2@test.com is logged in.** | | | | | |
| **Dependencies:**  **A valid user session.** | | | | | |
| **Test Steps** | **Test Data** | **Expected Results** | | **Actual Results** | **Status (Pass/Fail)** |
| 1. Log in as donor2@test.com. 2. Go to "Edit Profile". 3. Change email to an existing user's email. 4. Click "Save Changes". | Email: donor@test.com | An error message "Email address is already in use" should be displayed. | | A generic "Profile updated" message is shown and the user is logged out. The account becomes inaccessible. | Fail |