HealthCare Logistics - Requirements Traceability Matrix

ID	BR ID	Business Requirements	FR ID	Functional Requirements	US ID	User Story	Acceptance Criteria	Status	Comment
User Management									
RTM-001	BR-001	Admins must be able to assign roles to users.	FR-001	The system must allow admins to assign roles from a predefined list and save the changes.	US-016	As an admin, I want to assign specific roles to users, so that I can control what functionalities they have access to within the system.	- Admins can assign roles from a predefined list and save changes.	Pass	
RTM-002	BR-002	Roles must determine user permissions.	FR-002	The system must ensure that roles control access to different system functionalities (e.g., inventory, sales).			- Roles should determine the user's permissions and what parts of the system they can access (e.g., inventory for admin, sales for pharmacists).	Pass	
RTM-003	BR-003	Admins must be able to create new users.	FR-003	The system must validate user details, ensuring each email is unique during account creation.	US-017	As an admin, I want to create new users in the system, so that I can grant access to new team members or employees.	- The system should validate user details (e.g., unique email) during account creation.	Pass	
RTM-004	BR-004	Admins must be able to delete users with confirmation.	FR-004	The system must display a confirmation prompt to admins before user deletion to prevent accidental removals.	US-018	As an admin, I want to delete users from the system, so that I can remove access for users who no longer need it or have left the organization.	- Admins can select users for deletion, with a confirmation prompt to prevent accidental deletions.	Pass	
RTM-005	BR-005	Deleted users' data must be anonymized.	FR-005	The system must anonymize deleted users' data in compliance with data protection regulations.			- Deleted users should be removed from active lists and have their data anonymized in compliance with data protection regulations.	In Progress	
RTM-006	BR-006	Users must be able to update their profiles.	FR-006	The system must allow users to update their personal information (e.g., name, email, password) with validation.	US-019	As a user, I want to manage my own profile, so that I can keep my personal information up to date.	- Users can update fields like name, email, and password with validation on inputs (e.g., password strength).	Not Executed	
RTM-007	BR-007	Changes made by users must be confirmed.	FR-007	The system must notify users when changes to their profile have been saved successfully.			- Changes should be saved successfully and confirmed.	Not Executed	
Authentication									
RTM-008	BR-008	The system must provide a login form.	FR-008	The system must allow users to enter a username and password for authentication.	US-001	As a user, I want to enter my username and password into a login form, so that I can authenticate myself and access the system.	- The login form accepts a username and password.	In Progress	Not yet connected to database
RTM-009	BR-009	Successful login must redirect users to the dashboard.	FR-009	The system must redirect authenticated users to their dashboard.			- A successful login redirects the user to their dashboard.	In Progress	
RTM-010	BR-010	Unsuccessful login must display an error message.	FR-010	The system must display an error message without revealing whether the username or password is incorrect.			- An unsuccessful login displays an error message without revealing if the username or password is incorrect.	Pass	
RTM-011	BR-011	Error messages must be specific for incorrect credentials.	FR-011	The system must show clear error messages for invalid credentials and account lockouts.	US-002	As a user, I want to receive clear error messages when I enter incorrect credentials, so that I can understand what went wrong and try again.	- Specific error messages are displayed for invalid credentials and account lockouts.	Pass	
RTM-012	BR-012	Error messages must not reveal sensitive information.	FR-012	Error messages should not disclose whether the username or password is incorrect.			- Error messages should not disclose any sensitive information.	Pass	
RTM-013	BR-013	The system must allow users to reset their password.	FR-013	The system must provide a "Forgot Password" link for users to recover their account.	US-003	As a user who has forgotten my password, I want a "Forgot Password" link, so that I can recover my account by resetting my password.	- Users can request a password reset link, which is sent to their registered email.	In Progress	
RTM-014	BR-014	The password reset link must expire for security.	FR-014	The system must ensure the reset link expires after a set period for security.			- The reset link must expire after a defined period for security.	Not Executed	
RTM-015	BR-015	Two-step verification (2SV) must be available.	FR-015	The system must send a verification code via SMS or email as part of two-step verification during login.	US-004	As a security-conscious user, I want to enable two-step verification (2SV) during login, so that I can add an extra layer of security to my account.	- Users receive a verification code via SMS or email upon entering their password.	Not Executed	
RTM-016	BR-016	The system must complete login only after 2SV verification.	FR-016	The login process must be completed only after entering the correct verification code.			- The login process is only completed after entering the correct verification code.	Not Executed	

RTM-017	BR-017	Input validation must be enforced for email and password.	FR-017	The system must check for a proper email format and enforce a minimum password length before submission.	US-005	As a user, I want the system to validate my input, so that I can correct mistakes before submission and ensure my information is valid.	- The system checks for proper email format and minimum password length before submission.	Pass	
RTM-018	BR-018	Real-time inline validation errors must be displayed.	FR-018	The system must display inline validation errors in real-time as users type.			- Inline validation errors should be displayed in real-time as the user types.	Pass	
Supplier Management									
RTM-019	BR-019	Admins must be able to add new suppliers.	FR-019	The system must allow admins to add suppliers with details like name, contact info, and category.	US-028	As an admin, I want to add and manage detailed supplier information, so that I can maintain an organized supplier directory and have easy access to details.	- The system should allow the admin to add new suppliers with fields like supplier name, contact info (address, phone number, email), and supplier category (e.g., pharmaceutical, medical equipment).	Pass	
RTM-020	BR-020	Supplier information must be editable.	FR-020	The system must allow admins to edit and update supplier information when needed.			- The admin should be able to edit and update supplier information as necessary.	Pass	
RTM-021	BR-021	Supplier information must be validated before saving.	FR-021	The system must validate supplier information to ensure that required fields are filled before saving.			- The system should validate supplier information (e.g., required fields) before saving.	Pass	
RTM-022	BR-022	Supplier directory must be searchable.	FR-022	The system must provide search functionality to find suppliers by name, category, or items supplied.			- The supplier directory should be searchable by supplier name, category, or items supplied.	Pass	
RTM-023	BR-023	Admins must be able to associate items with suppliers.	FR-023	The system must allow admins to link items to the relevant supplier during item creation or updates.	US-029	As an admin, I want to add and associate specific items with suppliers, so that I can track which items are supplied by which suppliers.	- The system should allow the admin to link items (medicines, equipment, etc.) to the relevant supplier during the item creation or update process.	Pass	
RTM-024	BR-024	Each supplier must have a manageable list of supplied items.	FR-024	The system must allow admins to view, add, edit, or delete the list of items supplied by each supplier.			- Each supplier should have a list of items they supply, which can be viewed and managed (add, edit, delete) from the supplier's profile.	Pass	
RTM-025	BR-025	Admins must be able to view suppliers by items during purchase.	FR-025	The system must allow admins to view all suppliers for a specific item during the purchase order creation process.			- The system should allow the admin to view all suppliers for a specific item during purchase order creation.	Pass	
Requisition Management									
RTM-026	BR-026	Users must be able to create requisitions for inventory.	FR-026	The system must allow users to enter item details and justification for requisitions.	US-020	As an admin or pharmacist, I want to create requisitions for inventory, so that I can request items that need to be replenished.	- Users can enter item details and justification for requisitions.	Pass	
RTM-027	BR-027	Requisitions must be automatically saved and routed.	FR-027	The system must automatically save and route requisitions for approval.			- The requisition should be saved and routed for approval automatically.	Pass	
RTM-028	BR-028	Requisition fields must be validated.	FR-028	The system must validate required fields (e.g., product, quantity, justification) before submission.			- The system should provide validation to ensure that all required fields (e.g., product, quantity, justification) are completed before submission.	Pass	
RTM-029	BR-029	Users must be able to view requisition history.	FR-029	The system must allow users to view a list of all requisitions with relevant filters and details.	US-021	As an admin or pharmacist, I want to view a list of all requisitions, so that I can track the status and history of each request.	- Users can filter requisition history by date, status, and type.	Pass	
RTM-030	BR-030	Detailed requisition views must be available.	FR-030	The system must provide detailed views of requisitions, including approval status and comments.			- Detailed views of requisitions should show approval status and comments.	Pass	
RTM-031	BR-031	Managers must be able to manage requisitions (approve, reject, etc.).	FR-031	The system must allow managers to approve, reject, recall, edit, view, delete, or cancel requisitions.	US-022	As an admin, I want to manage requisitions, including approving, rejecting, editing, or canceling them, so that I can control inventory requests efficiently.	- Managers can perform all specified actions on requisitions, with appropriate notifications sent to users involved.	Pass	
RTM-032	BR-032	Approvers must have direct access to approve/reject requisitions.	FR-032	The system must allow approvers to directly approve or reject requisitions.			- Approve/Reject: Approvers should approve or reject requisitions directly.	Pass	
RTM-033	BR-033	Notifications must be sent upon requisition approval/rejection.	FR-033	The system must send notifications to the requestor upon approval or rejection of requisitions.			- Upon rejection, the system should notify the requestor with the reason for rejection.	In Progress	
RTM-034	BR-034	Requisitions must move to the next state after approval.	FR-034	The system must transition approved requisitions to a fulfilled or processing state.			- Upon approval, the requisition should move to a fulfilled or processing state.	In Progress	

RTM-035	BR-035	The system must follow an approval workflow for requisitions.	FR-035	The system must route requisitions through a predefined workflow based on signatories.	US-023	As an admin, I want an approval workflow with designated signatories, so that there is a clear process for reviewing and approving requisitions.	- The system routes requisitions through a predefined workflow based on the people who need to sign.	In Progress	
RTM-036	BR-036	Approvers must be notified of pending requisitions.	FR-036	The system must notify approvers when a requisition is pending their approval.			- Approvers should be notified when a requisition is pending their approval.	In Progress	
RTM-037	BR-037	The system must proceed to the next step after all approvals are received.	FR-037	Once all approvals are completed, the requisition must automatically proceed to the next step (e.g., purchase order creation).			- Once all required approvals are obtained, the requisition should automatically proceed to the next step in the process (e.g., purchase order creation).	In Progress	
Purchase Order									
RTM-037	BR-037	Users must be able to create purchase orders by selecting suppliers and items from approved requisitions.	FR-037	The system must allow users to select suppliers and items to create a purchase order linked to a requisition.	US-024	As an admin, I want to create a purchase order by selecting a supplier and choosing the items to be ordered, so that I can formalize procurement and keep track of orders efficiently.	- When selecting a Requisition No., fields should autofill with Supplier Info, Order Status, Date Issued.	Pass	
RTM-038	BR-038	Users should be able to initiate purchase orders through a dedicated modal.	FR-038	The system must provide a Create Purchase Order button that opens a modal for order details entry.			- Create Purchase Order button opens a modal for order entry.	Pass	
RTM-039	BR-039	Item details from requisitions should be included in the purchase order.	FR-039	The system must populate the item table in the purchase order based on the selected requisition's items.			- Item table auto-populates based on items listed in the requisition.	Pass	
RTM-040	BR-040	Admins should receive confirmation upon completing a purchase order.	FR-040	The system must provide confirmation to notify the admin upon successful purchase order submission.			- Confirmation message notifies the admin that the purchase order process is complete.	In Progress	
RTM-041	BR-041	Tabs should allow viewing of different purchase order statuses.	FR-041	The system must display purchase orders organized by tabs for different statuses.			- Tabs for viewing All, Partial, Ordered, Received orders.	Pass	
RTM-042	BR-042	Users should be able to view all purchase orders with relevant details.	FR-042	The system must display a purchase order list with columns showing key order details.			- Purchase order list includes columns for PO ID, Supplier, Location, Status, Received, Total, Issued Date.	In Progress	
RTM-043	BR-043	Users should be able to manually input received products into inventory.	FR-043	The system must allow users to update inventory by entering received good products while processing returns for bad products.	US-025	As an admin, I want to manually input the received good products into the system, so that they can be automatically added to the inventory, while bad products are returned to the supplier for replacement.	- Clicking a Purchase ID opens a modal for evaluation. - Evaluation modal table includes columns: Item Name, QTY Ordered, QTY Received, Product Status, QTY Returned, Ordered By, Expiration Date, Created Date, Updated Date, Delivery Status.	In Progress	
RTM-044	BR-044	Users should be able to evaluate each product in the received inventory.	FR-044	The system must display detailed columns for item evaluation during inventory updates.			- Supplier info is displayed above the table in the evaluation modal.	In Progress	
Return Management									
RTM-046	BR-046	The system should support return management for defective or unsuitable products.	FR-046	The system must allow admins to create return requests for bad products (damaged, expired, or incorrect).	US-026	As an admin, I want to create a return request for bad products to initiate their return to inventory for replacement.	Admins can create a return request, specifying details of damaged, expired, or incorrect products.	In Progress	
RTM-047	BR-047	Users must be able to track return request statuses.	FR-047	The system must provide a status tracker for all return requests with relevant product details.			Return request status should update as items progress through the return process.	In Progress	
RTM-048	BR-048	Return management must include a historical log for easy reference and accountability.	FR-048	The system must provide a return request history log for review by the admin and other authorized users.	US-027	As an admin, I want to view a history of all return requests to track returned products and status updates.	A return request history list is available with details of all requests, including product, date, status, and any notes.	In Progress	
RTM-049	BR-049	The system must allow searching and filtering options within the return history.	FR-049	The system must allow users to filter and search through return request history by product, date, and return status.			Return history list is filterable by date, product, and return status for quick reference.	In Progress	

RTM-050	BR-050	Users should have easy access to comprehensive information on each returned product's replacement status.	FR-050	The system must display replacement status and any relevant notes in the return request history for tracking purposes.			Return history shows the replacement status with notes on each returned product's condition and resolution.	In Progress	
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