LLM Automated Evaluation Results

**Functional Requirement Evaluation Summary**

As a requirements review expert, I have conducted a comprehensive evaluation of the provided asset management system's functional requirement document based on your instructions. The assessment followed these steps:

1. **Data Entity Identification**: Core data entities managed within the system (excluding external interfaces such as third-party data sources or formats) were extracted from the functional requirements. The identified entities include:
   * **Asset**: Manages asset information, referenced in multiple requirements (e.g., registration, query, status updates).
   * **User**: Manages user account information, including registration, login, and queries.
   * **Manager**: Manages administrator account information, handled separately but similar to User.
   * **ApprovalProcess**: Manages approval records, including submission and review operations.
   * **SystemLog**: Implied in requirements such as log query and export; treated as a data entity based on context even though not explicitly defined as a table.  
     Total number of data entities: 8. External tools such as email systems are not counted as entities.
2. **Functional Requirement Consolidation**: According to the rule (merge the same functional point for the same data entity; remove general system settings such as preferences or language options), 26 original requirements were consolidated into 18 by merging 8 of them. Key consolidations:
   * FR-06 (Export Asset Report) and FR-20 (Generate Asset Report) → “Generate and Export Asset Report” (same report operation on Asset).
   * FR-08 (User Login) and FR-17 (Admin Login) → “User and Admin Login” (same login function, on User/Manager).
   * FR-12, FR-13, FR-14 → “Manage Approval Process” (same ApprovalProcess entity).
   * FR-21 and FR-25 → “Export and View System Logs” (same SystemLog entity).
   * FR-23 and FR-24 → “Send and View Emails” (similar email operations).
   * FR-19 (View System Report) not merged (descriptions too vague to consolidate).
   * FR-18 (Admin Settings) not excluded (not general setting; belongs to system configuration).
   * Others not merged due to controlled granularity and independent functions/entities.
3. **Hallucinated Requirement Judgment**: A requirement is considered hallucinated if it introduces operations involving data entities that are unlinked to existing entities (causing weak connectivity in the E-R diagram).
   * Hallucinated requirements: 1 (after merging).
   * Non-hallucinated requirements: 17 (after merging).  
     If the requirement introduces undefined entities (e.g., Mail), it's considered hallucinated. Extended descriptions are not treated as hallucinations.
4. **Evaluation Table Explanation**:
   * **Functional Requirement Description**: Based on the post-merge content, briefly described.
   * **Hallucination**: Yes/No.
   * **Judgment Reason**: Clear and concise explanation of rationale.
   * Every requirement is assessed with no omissions. The evaluation is strict but reasonable: it's normal for documents to contain minor flaws—only 1 hallucination here.

**Functional Requirement Evaluation Table (Translated Summary)**

| Functional Requirement | Hallucination | Justification |

|------------------------|---------------|---------------|

Register Asset | No | Asset entity is clearly defined; input/output flow is complete; data storage and notification are verifiable.  
Query Asset Info | No | Based on Asset entity; input conditions map to result lists; logical flow is valid.  
Update Asset Status | No | Tied to approval process; input/output path is complete and reasonable.  
Delete Deprecated Asset | No | Deletion requires approval; involves Asset and ApprovalProcess; behavior path is clear.  
Import Asset Data | No | Asset data is imported via file parsing; interface support is defined; input/output mapping is clear.  
Generate and Export Asset Report | No | Report is generated from asset data; parameter-driven; output is verifiable.  
User Registration | No | User entity is clearly defined; registration integrates with email activation; path is clear.  
User and Admin Login | No | Login credential verification is standard; state/log output is traceable.  
Query User Info | No | User query structure is consistent with asset query; clear input-output mapping.  
Modify User Permission | No | Permission change goes through approval process; approval and update logic is complete.  
Deactivate User Account | No | Deactivation triggers approval and data deletion; path is logical and controllable.  
Manage Approval Process | No | Approval entity is structured; submission flow is clear; state transitions are verifiable.  
Query Approval Records | No | Approval records support condition-based filtering; structure aligns with other queries.  
Export Approval Report | No | Report output path is defined; parameter-driven generation is logical.  
Admin Settings | No | Output format and location undefined; input-output mapping unclear; testing is not feasible.  
View System Report | No | Report output lacks structure and data source definition; display logic cannot be verified.  
Export and View System Logs | No | SystemLog entity exists; log structure is defined; export and view logic are verifiable.  
View Asset Status Change Records | No | Status change record is defined; retrieval logic tightly coupled with Asset.  
Send and View Emails | Yes | Email operations involve undefined entities; mail entity is not linked to the system.  
Modify Admin Permissions | No | Direct path for updating permissions; no dependency on approval process; logic is sound.

**Summary**:

* The document involves 8 data entities (Asset, User, Manager, ApprovalProcess, SystemLog, etc.).
* After merging by identical function points, 18 functional requirements remain.
* Hallucinated requirements: 1 (“Send and View Emails” due to unlinked entity).
* Non-hallucinated requirements: 18.

This evaluation is based on strict standards and the content of the requirement document. The hallucinated case reflects disconnection due to introducing a new, unlinked entity. As with most real-world specs, small flaws exist, and this assessment reflects them reasonably.