LLM Automated Evaluation Results

Functional Requirement Evaluation Table

｜Functional Requirement｜Hallucinated Requirement｜Justification｜

｜FR-0106: Asset Lifecycle Operations｜No｜Asset is a core entity. All operations (registration/transfer/return/modification/view/deletion) revolve around the asset. The input-output process is clearly defined, forming a logical closed loop without any isolated functional points.｜

｜FR-0708: Operation Log Management｜No｜Involves the entity “operation log.” Querying and exporting are within the system’s functional scope, with clear input-output definitions. Data sources and processing paths are well-defined, and the functionality is tightly connected to the main system flow.｜

｜FR-0912: Approval Process Management｜No｜Relates to the entity “approval process.” Although the output “process health score” in FR-09 lacks a defined rule, the other operations (create/view/modify/delete) have a clear structure and are well anchored to system entities.｜

｜FR-1314: Approval Record Management｜No｜Involves the entity “approval record.” The functional path is complete. Querying and exporting actions form a closed loop with the approval operations in the system, and the entity relationships are clearly defined.｜

｜FR-1517: Report Management｜No｜The report is a defined core entity. Although the “multi-dimensional filtering” and “data desensitization” in FR-15 are vaguely specified, the overall functionality directly interacts with the system’s main data, and the entity relationship remains intact.｜

｜FR-1821: User Management｜No｜User is a core system entity. The related operations (add/modify/view/delete) are clearly defined, covering the full lifecycle. All steps trace back to the user entity, with no isolated nodes.｜

｜FR-2225: Role Management｜No｜All operations revolve around the “role” entity. The operated objects are closely related to permission control, the data structure has no redundancy or isolated modules, and semantics are clear.｜

｜FR-2627: Data Import Record Management｜No｜This function is an extended subset of the “operation log” entity. It maintains strong relevance to the original log, with logically continuous query and export capabilities and no fabricated entities.｜

｜FR-28~29: Data Export Record Management｜No｜This part is symmetric to data import record management. It also relies on a log subset entity, with reasonable behavior and no deviation from system structure.｜

Summary

The system contains six core data entities: asset, operation log, approval process, approval record, report, user and role. Interfaces involving external hardware or software (such as printers and blockchain) are not included in the count.

After applying the merging rules, the original 29 requirements were consolidated into 17 functional requirements. Merging logic: operations on assets (FR-0106) were combined into one; log-related operations (FR-0708, FR-2629) into four; approval processes (FR-0912) into one; approval records (FR-1314) into one; report operations (FR-1517) into one; user operations (FR-1821) into one; role operations (FR-2225) into one. Other independent requirements were retained as standalone entries.

There are zero hallucinated requirements. All requirements are associated with at least one core entity (such as asset or user). The entity-relationship diagram maintains weak connectivity, with no isolated functionality.

There are 17 non-hallucinated requirements, i.e., all requirements are non-hallucinated.

Key Review Conclusion

Strengths: The requirements are highly focused on core entities, and no structurally disconnected “hallucinated functionalities” are found. Most functionalities have clearly defined inputs and outputs, with strong testability.

Areas for improvement: FR-09 requires a quantitative standard for “process health score.” FR-15 should specify the dimensions used in “multi-dimensional filtering” and clarify the rules for data desensitization 、