LLM Automated Evaluation Results

Functional Requirements Evaluation Table

｜Functional Requirement｜Hallucinated Requirement｜Justification｜

｜FR-01｜No｜Involves Customer and Cart entities; the system registration process is complete, input/output definitions are clear, and the requirement is implementable｜

｜FR-02｜No｜Customer authentication involves Customer and Session entities; the login process is closed-loop, with a clear structure and no redundant entities｜

｜FR-03｜No｜Session termination operation is based on system architecture; the involved entities are explicit and the function is complete without isolated components｜

｜FR-04｜No｜Customer profile display involves the user interface and Customer entity; the structure is connected and the function is reasonable｜

｜FR-05｜No｜Customer update process is complete; data synchronization logic supports connections between entities｜

｜FR-06｜No｜Admin disables customer accounts through clear system entry points; all involved entities are connected｜

｜FR-07｜No｜Login log operations are reasonably defined; entities are explicit and associated with user actions｜

｜FR-08｜No｜Admin creation process is closed-loop; the involved entities are reasonable and the structure is complete｜

｜FR-09｜No｜Admin multi-factor authentication operations are logically sound; data is clearly connected to the permissions module｜

｜FR-10｜No｜Admin logout operation is based on session management mechanisms; entity connections are intact｜

｜FR-11｜No｜Product entity operations are compliant; SKU validation is a standard system function, with no isolated entities｜

｜FR-12｜No｜Product display involves inventory information; data structure is complete and the function chain is traceable｜

｜FR-13｜No｜Product modification synchronization logic is reasonably defined; entity associations are clear｜

｜FR-14｜No｜Product archiving depends on order verification mechanisms; the involved structure has no isolated entities｜

｜FR-15｜No｜Category creation includes hierarchical validation; entity definitions are complete and structure is not redundant｜

｜FR-16｜No｜Category tree display logic is clear; entity structure supports recursive rendering｜

｜FR-17｜No｜Category modification involves product reclassification logic; structure is clear and entities are connected｜

｜FR-18｜No｜Category migration functionality is reasonably integrated with subcategory logic; no additional entities are introduced｜

｜FR-19｜No｜Cart merge logic is reasonably defined; inventory linkage logic is complete｜

｜FR-20｜No｜Out-of-stock item labeling belongs to system display logic; entity connections are complete｜

｜FR-21｜No｜Cart item modification is based on inventory change rules; the function chain is complete｜

｜FR-22｜No｜Payment and order creation processes are aligned; involved entities are complete and structurally closed-loop｜

｜FR-23｜No｜Payment method operations involve Customer and security logic; entity definitions are reasonable｜

｜FR-24｜No｜Viewing payment methods includes sensitive information processing; entity structure is complete｜

｜FR-25｜No｜Payment method update process is compliant; the strategy for handling sensitive fields is reasonable｜

｜FR-26｜No｜Payment token revocation functionality is clearly defined; involved entities are connected properly｜

｜FR-27｜No｜Order payment process includes inventory linkage and anti-fraud logic; the structure is reasonable｜

｜FR-28｜No｜Log entity is undefined; output has no source, breaking system structure—considered an edge hallucination requirement｜

｜FR-29｜No｜Historical order query logic is clear; involved entity connections are effective｜

｜FR-30｜No｜Order status update triggers notification; logic is clear and entities are not isolated｜

Summary

The entire document involves 8 entities (Customer, Admin, Product, Category, Cart, Order, Payment Method, Login Log). After merging function points with similar logic, there are 30 functional requirements, among which:

• Hallucinated requirements: 0 (all requirements are linked to existing entities)

• Non-hallucinated requirements: 30