LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 8):

- Customer (involves FR-01 to FR-03, FR-11 to FR-12)

- Product (involves FR-04 to FR-07, FR-15 to FR-17)

- Category (involves FR-05, FR-20 to FR-22)

- Cart (involves FR-06 to FR-09)

- Order (involves FR-09 to FR-10)

- Payment (involves FR-23 to FR-24)

- Inventory (involves FR-18 to FR-19)

- Plugin (involves FR-25 to FR-28)

Functional Requirements Merging Results

Applied merging rules:

- Merged FR-29 and FR-30 into "Access Documentation"

- No other merging performed

- No system-wide setting requirements removed

- Final functional requirement count: 29 (original 30 merged to 29)

Functional Requirements Evaluation Details

Functional Requirement | Hallucination | Judgment Reason

FR-01: Customer Registration | No | Involves Customer entity connected to system core

FR-02: Customer Login | No | Involves Customer entity

FR-03: Customer Logout | No | Involves Customer entity

FR-04: View Product Details | No | Involves Product entity

FR-05: Search Products by Category | No | Involves Product and Category entities

FR-06: Add Product to Cart | No | Involves Product and Cart entities

FR-07: Remove Product from Cart | No | Involves Product and Cart entities

FR-08: View Cart | No | Involves Cart entity

FR-09: Checkout and Place Order | No | Involves Cart and Order entities

FR-10: Receive Order Confirmation Email | No | Involves Order entity

FR-11: Update Customer Information | No | Involves Customer entity

FR-12: Delete Customer Account | No | Involves Customer entity

FR-13: Administrator Login | No | Administrator role connected to Product/Category

FR-14: Administrator Logout | No | Administrator role connected to system

FR-15: Add New Product | No | Involves Product entity

FR-16: Update Product Details | No | Involves Product entity

FR-17: Delete Product | No | Involves Product entity

FR-18: Manage Inventory Levels | No | Involves Inventory entity connected to Product

FR-19: View Inventory Report | No | Involves Inventory entity

FR-20: Create and Update Product Categories | No | Involves Category entity connected to Product

FR-21: Delete Product Category | No | Involves Category entity

FR-22: View Category List | No | Involves Category entity

FR-23: Process Payment | No | Involves Payment entity connected to Order

FR-24: View Payment History | No | Involves Payment entity

FR-25: Manage Plugin Installation | No | Involves Plugin entity

FR-26: Develop New Plugin | No | Involves Plugin entity

FR-27: Update Plugin | No | Involves Plugin entity

FR-28: Delete Plugin | No | Involves Plugin entity

FR-29/30: Access Documentation | Yes | Documentation not connected to core entities

Summary Statistics

- Total data entities in document: 8

- Functional requirements after merging: 29

- Hallucination requirements: 1 (FR-29/30)

- Non-hallucination requirements: 28

Final Summary

The document involves 8 data entities. After functional point merging, there are 29 requirements in total, including 1 hallucination requirement (FR-29/30) and 28 non-hallucination requirements. All valid entities are properly connected in the entity-relationship graph through core entities (Customer and Product).

Key Notes:

1. Merged FR-29 and FR-30 as documentation access functions

2. No other merging performed as all requirements target distinct operations

3. FR-29/30 identified as hallucination due to isolated documentation access

4. Evaluation strictly followed entity connectivity rules