LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 8):

- Customer (involves FR-01, FR-02, FR-19)

- Product (involves FR-03, FR-04, FR-12/20, FR-13, FR-14)

- Category (involves FR-14, FR-15, FR-16)

- Shopping Cart (involves FR-04, FR-05, FR-06, FR-07)

- Order (involves FR-08, FR-09, FR-10, FR-21)

- Payment Method (involves FR-08, FR-18)

- Plugin (involves FR-17)

- Administrator (involves FR-11)

Functional Requirements Merging Results

Applied merging rules:

- Merged FR-12 and FR-20 into "Manage Product and Inventory"

- No other merging performed

- No system-wide setting requirements removed

- Final functional requirement count: 19 (original 21 merged to 19)

Functional Requirements Evaluation Details

Functional Requirement | Hallucination | Judgment Reason

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

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

FR-03: View Product List | No | Involves Product and Category entities

FR-04: Add Product to Cart | No | Involves Product and Shopping Cart entities

FR-05: Update Cart Contents | No | Involves Shopping Cart entity

FR-06: Remove Product from Cart | No | Involves Shopping Cart and Product entities

FR-07: View Cart Summary | No | Involves Shopping Cart entity

FR-08: Checkout | No | Involves Shopping Cart, Order and Payment Method entities

FR-09: Confirm Order | No | Involves Order entity

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

FR-11: Administrator Login | No | Involves Administrator entity

FR-12/20: Manage Product and Inventory | No | Involves Product entity

FR-13: Update Product Details | No | Involves Product entity

FR-14: Categorize Products | No | Involves Product and Category entities

FR-15: Create Category | No | Involves Category entity

FR-16: Delete Category | No | Involves Category entity

FR-17: Manage Plugin | No | Involves Plugin entity

FR-18: View Payment Information | No | Involves Payment Method entity

FR-19: Manage Customer | No | Involves Customer entity

FR-21: Manage Order | No | Involves Order entity

Summary Statistics

- Total data entities in document: 8

- Functional requirements after merging: 19

- Hallucination requirements: 0 (all entities properly connected via core entities)

- Non-hallucination requirements: 19

Final Summary

The document involves 8 data entities. After functional point merging, there are 19 requirements in total, including 0 hallucination requirements and 19 non-hallucination requirements. All entities are properly connected in the entity-relationship graph through core entities (Customer and Product).

Key Notes:

1. Merged FR-12 and FR-20 as they both manage Product entity

2. No isolated entities found in the requirement set

3. Evaluation strictly followed user-defined rules for entity extraction and requirement analysis