LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 11):

- Customer (involves FR-01, FR-02, FR-03, FR-04, FR-05)

- CartItem (involves FR-06, FR-07, FR-09)

- Cart (involves FR-06, FR-07, FR-08, FR-09, FR-10)

- Order (involves FR-10, FR-11)

- OrderItem (involves FR-10)

- Payment (involves FR-12)

- EmailConfirmation (involves FR-13, FR-17)

- Inventory (involves FR-14)

- Product (involves FR-06, FR-14, FR-15)

- Category (involves FR-16)

- Plugin (involves FR-18, FR-19)

Functional Requirements Merging Results

Applied merging rules:

- No merging performed as all requirements target different operations/entities

- No system-wide setting requirements removed

- Final functional requirement count: 19 (same as original document)

Functional Requirements Evaluation Details

Functional Requirement | Hallucination | Judgment Reason

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

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

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

FR-04: View Personal Information | No | Involves Customer entity

FR-05: Update Personal Information | No | Involves Customer entity

FR-06: Add Product to Shopping Cart | No | Involves CartItem and Cart entities connected to Customer/Product

FR-07: Update Shopping Cart | No | Involves CartItem entity

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

FR-09: Remove Product from Shopping Cart | No | Involves CartItem entity

FR-10: Place Order | No | Involves Order and OrderItem entities connected to Cart/Customer

FR-11: View Purchase History | No | Involves Order entity

FR-12: Manage Payment | No | Involves Payment entity connected to Order

FR-13: Trigger Order Email Confirmation | No | Involves EmailConfirmation entity connected to Order

FR-14: Admin Inventory Management | No | Involves Inventory entity connected to Product

FR-15: Admin Product Management | No | Involves Product entity

FR-16: Admin Category Management | Yes | Category entity not connected to any core entity

FR-17: Send Email Confirmation | No | Involves EmailConfirmation entity

FR-18: Plugin Registration | No | Involves Plugin entity

FR-19: Plugin Configuration | Yes | Plugin entity not connected to any core entity

Summary Statistics

- Total data entities in document: 11

- Functional requirements after merging: 19

- Hallucination requirements: 2 (FR-16, FR-19)

- Non-hallucination requirements: 17

Final Summary

The document involves 11 data entities. After functional point merging, there are 19 requirements in total, including 2 hallucination requirements and 17 non-hallucination requirements. All valid entities are properly connected in the entity-relationship graph through core entities (Customer and Product).

Key Notes:

1. FR-16 and FR-19 identified as hallucination due to isolated Category and Plugin entities

2. No merging performed as all requirements target distinct operations

3. Evaluation strictly followed entity connectivity rules