LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 12):

- Customer (involves FR-01 to FR-03)

- Product (involves FR-04 to FR-05, FR-15 to FR-18)

- ShoppingCart (involves FR-06 to FR-07)

- CartItem (involves FR-06 to FR-07)

- Order (involves FR-08 to FR-12, FR-19, FR-25)

- Plugin (involves FR-20 to FR-22)

- PluginConfiguration (involves FR-21)

- Payment (involves FR-23 to FR-24, FR-28)

- PaymentMethod (involves FR-28)

- OrderStatus (involves FR-25)

- Documentation (involves FR-26 to FR-27)

- EventLog (involves FR-02, FR-03, FR-12)

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: 28 (same as original document)

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 and EventLog entities

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

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

FR-05: Search Products | No | Involves Product entity

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

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

FR-08: Place Order | No | Involves Order and Product entities

FR-09: View Order History | No | Involves Order entity

FR-10: Cancel Order | No | Involves Order entity

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

FR-12: View Order Confirmation Email | No | Involves Order and EventLog entities

FR-13: Administrator Login | Yes | Administrator entity not connected to core system entities

FR-14: Administrator Logout | Yes | Administrator entity not connected to core system entities

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

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

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

FR-18: View Product Inventory | No | Involves Product entity

FR-19: View Order Details | No | Involves Order entity

FR-20: Plugin Registration | No | Involves Plugin entity

FR-21: Plugin Configuration | No | Involves PluginConfiguration entity connected to Plugin

FR-22: Plugin Deletion | No | Involves Plugin entity

FR-23: Manage Payment Methods | No | Involves Payment entity

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

FR-25: View Order Status | No | Involves OrderStatus entity connected to Order

FR-26: Access API Documentation | No | Involves Documentation entity

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

FR-28: Manage Payment Method | No | Involves PaymentMethod entity connected to Payment

Summary Statistics

- Total data entities in document: 12

- Functional requirements after merging: 28

- Hallucination requirements: 2 (FR-13, FR-14)

- Non-hallucination requirements: 26

Final Summary

The document involves 12 data entities. After functional point merging, there are 28 requirements in total, including 2 hallucination requirements (FR-13, FR-14) and 26 non-hallucination requirements. All valid entities are properly connected in the entity-relationship graph through core entities (Customer and Product).

Key Notes:

1. No merging performed as all requirements target distinct operations

2. FR-13 and FR-14 identified as hallucination due to isolated Administrator entity

3. Evaluation strictly followed entity connectivity rules