LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 10):

- Customer (involves FR-01 to FR-03, FR-09, FR-12, FR-15 to FR-18)

- Administrator (involves FR-19 to FR-21, FR-24)

- Product (involves FR-04 to FR-08, FR-25)

- Inventory (involves FR-06, FR-09, FR-11 to FR-14, FR-26)

- Order (involves FR-09 to FR-12)

- LoginSession (involves FR-02, FR-03, FR-20, FR-21)

- PaymentInformation (involves FR-15 to FR-18)

- EmailNotification (involves FR-01, FR-09, FR-11, FR-12, FR-15, FR-17, FR-18, FR-19, FR-22, FR-23)

- Plugin (involves FR-24, FR-26)

- ProductCategory (involves FR-25)

Functional Requirements Merging Results

Applied merging rules:

- Merged FR-07 and FR-26 into "Update Product Details"

- No other merging performed

- No system-wide setting requirements removed

- Final functional requirement count: 24 (original 26 merged to 24)

Functional Requirements Evaluation Details

Functional Requirement | Hallucination | Judgment Reason

FR-01: Create Customer Account | No | Involves Customer and EmailNotification entities

FR-02: Customer Login | No | Involves Customer and LoginSession entities

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

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

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

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

FR-07/26: Update Product Details | No | Involves Product, Inventory and Plugin entities

FR-08: Delete Product | No | Involves Product entity

FR-09: Create Order | No | Involves Order, Inventory and EmailNotification entities

FR-10: View Order Details | No | Involves Order entity

FR-11: Update Order Status | No | Involves Order, Inventory and EmailNotification entities

FR-12: Delete Order | No | Involves Order and Inventory entities

FR-13: View Inventory Levels | No | Involves Inventory entity

FR-14: Manage Inventory | No | Involves Inventory entity

FR-15: Create Payment Information | No | Involves PaymentInformation and EmailNotification entities

FR-16: View Payment Information | No | Involves PaymentInformation entity

FR-17: Update Payment Method | No | Involves PaymentInformation and EmailNotification entities

FR-18: Delete Payment Method | No | Involves PaymentInformation and EmailNotification entities

FR-19: Register Administrator | No | Involves Administrator and EmailNotification entities

FR-20: Administrator Login | No | Involves Administrator and LoginSession entities

FR-21: Administrator Logout | No | Involves LoginSession entity

FR-22: Send Email Notification | Yes | EmailNotification entity not properly connected to core entities

FR-23: View Notification Logs | Yes | EmailNotification entity isolated due to FR-22 hallucination

FR-24: Configure Plugin Settings | No | Involves Plugin entity

FR-25: Manage Product Categories | No | Involves ProductCategory and Product entities

Summary Statistics

- Total data entities in document: 10

- Functional requirements after merging: 24

- Hallucination requirements: 2 (FR-22, FR-23)

- Non-hallucination requirements: 22

Final Summary

The document involves 10 data entities. After functional point merging, there are 24 requirements in total, including 2 hallucination requirements (FR-22 and FR-23) and 22 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-07 and FR-26 as similar product update operations

2. FR-22 and FR-23 identified as hallucination due to isolated EmailNotification entity

3. No other isolated entities found in the requirement set

4. Evaluation strictly followed entity connectivity rules