LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 13):

- Customer (involves FR-01, FR-02, FR-09)

- Admin (involves FR-10)

- Product (involves FR-03, FR-11, FR-12, FR-19)

- Inventory (involves FR-11, FR-12)

- ShoppingCart (involves FR-04, FR-05, FR-06, FR-17)

- CartItem (involves FR-04, FR-05, FR-06, FR-17)

- Order (involves FR-07, FR-08, FR-09, FR-16, FR-18)

- OrderItem (involves FR-18)

- Payment (involves FR-07, FR-08)

- Category (involves FR-11, FR-13)

- Plugin (involves FR-14)

- EmailConfirmation (involves FR-15)

- ProductUpdateRecord (involves FR-19)

Functional Requirements Merging Results

Applied merging rules:

- Merged FR-04, FR-05, FR-06, FR-17 into "Manage Cart Items"

- Merged FR-11, FR-12 into "Manage Products"

- No system-wide setting requirements removed

- Final functional requirement count: 15 (original 19 merged to 15)

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 Details | No | Involves Product entity

Manage Cart Items (merged FR-04,05,06,17) | No | Involves CartItem and ShoppingCart entities

FR-07: Checkout | No | Involves Order and Payment entities

FR-08: Confirm Order | No | Involves Order and Inventory entities

FR-09: View Purchase History | No | Involves Order entity connected to Customer

FR-10: Administrator Login | No | Involves Admin entity

Manage Products (merged FR-11,12) | No | Involves Product and Inventory entities

FR-13: Manage Categories | No | Involves Category entity connected to Product

FR-14: Plugin Installation | No | Involves Plugin entity

FR-15: Email Confirmation | No | Involves EmailConfirmation entity

FR-16: View Order Status | No | Involves Order entity

FR-18: Manage Order Items | No | Involves OrderItem entity connected to Order

FR-19: Manage Product Update Record | No | Involves ProductUpdateRecord entity connected to Product

Summary Statistics

- Total data entities in document: 13

- Functional requirements after merging: 15

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

- Non-hallucination requirements: 15

Final Summary

The document involves 13 data entities. After functional point merging, there are 15 requirements in total, including 0 hallucination requirements and 15 non-hallucination requirements. All entities are properly connected in the entity-relationship graph through core entities (Customer and Product).