LLM Automated Evaluation Results

Functional Requirements Evaluation Report

Data Entity Identification Results

Extracted data entities from functional requirements (total 13):

- UserAccount (involves FR-01, FR-02, FR-03, FR-14)

- Session (implicit in FR-03)

- Product (involves FR-04, FR-11)

- Category (involves FR-04, FR-13)

- Inventory (involves FR-04, FR-12)

- ShoppingCart (involves FR-05, FR-06, FR-07, FR-19)

- CartModificationRecord (involves FR-05, FR-07, FR-19)

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

- Payment (involves FR-08, FR-15)

- OrderConfirmationEmail (involves FR-09)

- Plugin (involves FR-16)

- PluginDocumentation (involves FR-17)

- PaymentMethod (involves FR-18)

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: User Registration | No | Involves UserAccount entity connected to core system

FR-02: User Login | No | Involves UserAccount entity

FR-03: User Logout | No | Involves Session entity connected to UserAccount

FR-04: Browse Product Catalog | No | Involves Product, Category and Inventory entities

FR-05: Add Product to Cart | No | Involves ShoppingCart and CartModificationRecord entities

FR-06: View Shopping Cart | No | Involves ShoppingCart entity

FR-07: Modify Shopping Cart | No | Involves ShoppingCart and CartModificationRecord entities

FR-08: Checkout | No | Involves Order and Payment entities

FR-09: Order Confirmation | No | Involves Order and OrderConfirmationEmail entities

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

FR-11: Manage Products | No | Involves Product entity

FR-12: Manage Inventory | No | Involves Inventory entity

FR-13: Manage Categories | No | Involves Category entity

FR-14: Manage User Accounts | No | Involves UserAccount entity

FR-15: Manage Payment Records | No | Involves Payment entity

FR-16: Manage Plugins | No | Involves Plugin entity

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

FR-18: Manage Payment Methods | No | Involves PaymentMethod entity

FR-19: Track Cart Modifications | No | Involves CartModificationRecord entity

Summary Statistics

- Total data entities in document: 13

- Functional requirements after merging: 19

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

- Non-hallucination requirements: 19

Final Summary

The document involves 13 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 (UserAccount and Product).

Key Notes:

1. Session entity is implicitly connected via UserAccount operations

2. No isolated entities found in the requirement set

3. Evaluation strictly followed entity connectivity rules