LLM Automated Evaluation Results

**Functional Requirements Evaluation Table**

Functional Requirement | Hallucination | Justification

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User Registration | No | Input and output are clear (username/email → user table record); entity is "User", linked to login functionality.  
User Login | No | Input and output are clear (username & password → login result); entity is "User", associated with registration.  
Manage User Information (including update/delete) | No | Input (UserID + operation) and output (updated/deleted record) are clear; entity is "User".  
Browse Restaurant List | No | Output is a restaurant list (including RestaurantID); entity is "Restaurant", linked to search functionality.  
Search Restaurant | No | Input is keyword; output is restaurant list; entity is "Restaurant", linked to browsing.  
View Restaurant Details | No | Input is RestaurantID; output is detailed info; entity is "Restaurant", shared with browsing.  
Add Dish to Cart | No | Input (UserID + DishID), output is a cart record; entities include User, Dish, and Cart.  
Remove Dish from Cart | No | Input (UserID + DishID), output is deletion record; entities same as add-to-cart.  
Create Order | No | Input (UserID + dish info), output is an order record (OrderID, etc.); entities include User and Order.  
Modify Order Information | No | Input (OrderID + new dishes); however, the requirement lacks definition of "unfinished order" status (dependent on Order Status entity).  
Cancel Order | No | Input is OrderID; output is deletion record; entity is "Order", implicitly dependent on unfinished status logic.  
Pay Order | No | Input (OrderID + payment method), output is a payment record; entities include Order and Payment Record.  
View Order Status | No | Input is OrderID; output is status info; however, linkage to the Order Status entity is not explicitly defined in the functionality.  
Review Order | No | Input (OrderID + review content), output is a review record (ReviewID); entities include Order and Review.  
Manage Payment Methods | Yes | Introduces a new entity "Payment Method" without linking it to core entities like User or Order.  
Create Order Status (Admin) | No | Input is status description; output is a new status record; however, how the status is linked to orders is not defined.  
Post Review | No | Input (UserID + content), output is a review record; entities include User and Review.  
View Payment Records | No | Input is UserID; output is a list of payment records; entities include User and Payment Record.

**Summary**

* **Data Entity Count**: A total of **8 entities** identified: User, Restaurant, Dish, Cart, Order, Payment Record, Review, and Order Status.
* **Merged Functional Requirements**: From the original 28 sub-requirements, **18 main functional requirements** were formed (by merging based on operations on the same data entity, e.g., "Manage User Information" merges update and delete).
* **Hallucinated Requirements**: **1 item** ("Manage Payment Methods"), due to introducing an isolated entity.
* **Non-Hallucinated Requirements**: **17 items**, all other entries besides the hallucinated one.

**Key Issue Explanation**:

1. **Hallucinated Requirement**: Only "Manage Payment Methods" is marked hallucinated due to its isolated entity that isn't linked to any core system component.

Note: Consolidation rules were strictly applied—e.g., "User Management" combines update/delete, but registration and login were kept separate due to distinct functionality; external interfaces (e.g., payment, logistics) are excluded from entity count; general system features (e.g., UI design) were removed.