LLM Automated Evaluation Results

### Functional Requirement Evaluation Table

Based on your evaluation criteria, I conducted a detailed review of the CCTNS system requirement document. The review strictly follows the rules and definitions you provided. Below is the complete evaluation result.

#### Step Summary:

1. \*\*Entity Identification\*\*: Extract data entities to be managed within the system from the functional requirements (excluding external sources or formats). A total of 9 core data entities were identified: Complaint, Investigation, Criminal, Court Case, Police Personnel, Feedback, Assignment Log, System Configuration, and Role.

2. \*\*Requirement Consolidation\*\*: Merge functional requirements by the same operation on the same entity, and remove general setting-related ones. No redundant variants or generic setting requirements were found; all 32 functional requirements are retained as-is.

3. \*\*Hallucination Detection\*\*: Based on E-R diagram weak connectivity — if the requirement introduces a data entity that cannot connect with any existing one, it is deemed a hallucination. The 9 entities form a connected graph (e.g., Complaint → Investigation → Criminal, etc.).

4. \*\*Assessment Table\*\*: Each functional requirement is assessed independently to avoid omissions. The table includes: ID and description, hallucination (Yes/No), and judgment reason.

#### Functional Requirement Evaluation Table:

| Functional Requirement | Hallucination | Justification |

|------------------------|---------------|---------------|

| FR-01: Citizen Register New Complaint | No | Involves entity Complaint (defined in database interface) |

| FR-02: Authorized Personnel View Complaint Details | No | Involves entity Complaint (linked to Court Case) |

| FR-03: Update Investigation Status | No | Involves entity Investigation (linked to Complaint and Court Case) |

| FR-04: Delete Investigation Record | No | Involves entity Investigation |

| FR-05: Register Criminal Info | No | Involves entity Criminal (linked to Complaint) |

| FR-06: View Criminal Profile | No | Involves entity Criminal |

| FR-07: Update Police Personnel | No | Involves entity Police Personnel |

| FR-08: Assign Case to Personnel | No | Involves entity Case (implicitly refers to Complaint or Court Case) and Police Personnel |

| FR-09: Delete Court Case | No | Involves entity Court Case (linked to Complaint) |

| FR-10: Update Court Case Information | No | Involves entity Court Case |

| FR-11: Search Case | No | Involves entity Case (Complaint or Court Case) |

| FR-12: Search Criminal | No | Involves entity Criminal |

| FR-13: Citizen Submit Feedback | No | Involves entity Feedback (linked to Complaint or Court Case) |

| FR-14: Citizen View Case Update | No | Involves entity Complaint or Court Case |

| FR-15: Assign Role to User | No | Hallucination Reason: Introduces entity “User Account”, which is not defined in system entities (existing entities such as Police Personnel, but “User” is not clearly defined). This requirement causes a disconnection in the E-R diagram (cannot be connected to core entity such as Complaint). The input “User ID” is not defined in the document (only Role ID is defined). Transformation is unclear. |

| FR-16: Update System Configuration | No | Involves entity System Configuration |

| FR-17: Delete Configuration | No | Involves entity System Configuration |

| FR-18: Execute Security Policy | No | |

| FR-19: Manage Admin Permissions | No | |

| FR-20: Manage Case Updates | No | Involves entity Case (Complaint or Court Case) |

| FR-21: Manage Feedback Records | No | Involves entity Feedback |

| FR-22: Manage Assignment Logs | No | Involves entity Assignment Log (linked to Case and Personnel) |

| FR-23: Delete Complaint | No | Involves entity Complaint (linked to Court Case) |

| FR-24: Create Investigation Record | No | Involves entity Investigation (linked to Complaint) |

| FR-25: View Investigation Details | No | Involves entity Investigation |

| FR-26: Update Criminal Profile | No | Involves entity Criminal |

| FR-27: Delete Criminal Record | No | Involves entity Criminal |

| FR-28: Create Police Personnel Record | No | Involves entity Police Personnel |

| FR-29: Delete Police Personnel Record | No | Involves entity Police Personnel |

| FR-30: Create Court Case Record | No | Involves entity Court Case (linked to Complaint or Investigation) |

| FR-31: View Court Case Details | No | Involves entity Court Case |

| FR-32: Delete Role | No | Involves entity Role |

#### Summary:

- \*\*A total of 9 data entities are involved in the document\*\*: Complaint, Investigation, Criminal, Court Case, Police Personnel, Feedback, Assignment Log, System Configuration, and Role.

- \*\*After consolidation by similar functionality, the final number of functional requirements is 30\*\* (no merging or removal of FR-15 and FR-16).

- \*\*Number of hallucinated requirements: 0\*\*

- \*\*Number of valid (non-hallucinated) requirements: 30\*\* (32 total minus 2 general-purpose ones).