**LLM Automated Evaluation Results**

**Functional Requirement Evaluation Table**

According to the user-provided requirement document, the following preprocessing was performed:

* **Data Entity Extraction**: Core data entities required to be managed within the system (i.e., objects to be stored and processed) were extracted from the functional requirements. External data sources or formats mentioned in hardware/software interfaces were ignored. The extracted entities were derived from the input/output descriptions to ensure they are operated on or stored in the system.
  + List of Data Entities: Citizen, FIR (First Information Report), Case, Evidence, Officer, CriminalProfile, CaseType, Suspect, User, CourtHearing, LegalDocument. A total of 11 entities.
* **Functional Requirement Consolidation and Exclusion**:
  + Removed generic system configuration requirements: FR 8 (Configuration and Customization) and FR 14 (Multilingual Support) were excluded from the count.
  + Merged similar requirements: Based on the rule of merging requirements involving the same data entity and functional point, only FR 1 and FR 2 (both related to core FIR operations: registration and tracking) were merged into "FIR Registration and Tracking". Other requirements were not merged due to differences in core functionality and involved entities. For example:
    - FR 3 (Case Management) and FR 11 (Evidence Management) were not merged since FR 3 focuses on comprehensive management of the Case entity, while FR 11 is dedicated to the Evidence entity.
    - After exclusion and merging, the total number of functional requirements became 12 (originally 13 FRs after exclusion: FR1–7, FR9–13, FR15; reduced to 12 by merging FR1 and FR2).
* **Hallucinated Requirement Judgment Criteria**: Requirements that introduce operations involving data entities that cannot be linked to any existing entity in the system, leading to a disconnected E-R diagram (i.e., isolated entity), are considered hallucinated. Only non-hallucinated requirements were further evaluated for complete referencing and testability.
* **Strictness Note**: The evaluation applies stricter criteria to ensure not all requirements are automatically considered fully compliant.

**Evaluation Table**

| Functional Requirement | Hallucination | Justification |

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

FIR Registration and Tracking (merged from FR1 and FR2) | No | Entity FIR is clearly linked with Citizen and Case; input/output logic is sound.  
Case Management (FR3) | No | Case can be associated with Evidence and Officer; data path is clear, operation is closed-loop.  
Court Interaction (FR4) | No | CourtHearing and LegalDocument are clearly linked with Case; process is coherent.  
Criminal Profile Management (FR5) | Yes | CriminalProfile cannot be linked to any other entity (e.g., Case or Suspect), forming an isolated node.  
Advanced Search and Reporting (FR6) | No | Operates on existing entities such as Case and FIR; no hallucinated content introduced.  
Role-Based Access Control (FR7) | No | User entity exists in the system; access control is conceptually valid with no redundant entities.  
Case Type Management (FR9) | No | CaseType can be effectively linked to Case; structure is reasonable.  
Suspect Management (FR10) | No | Suspect can be related to Case; entity consistency is maintained.  
Evidence Management (FR11) | No | Evidence is explicitly linked to Case; the data chain is clear.  
Automated Notification System (FR12) | No | Operates on system event statuses; introduces no new storage entity, logic is sound.  
Data Analysis and Statistical Reporting (FR13) | No | Operates on existing data to generate statistical reports; no fictitious objects involved.  
Mobile Application Functionality (FR15) | No | Functions based on operations on existing data, such as Case and Evidence; no new entity introduced.

**Summary**

* A total of 11 data entities are involved in the document: Citizen, FIR, Case, Evidence, Officer, CriminalProfile, CaseType, Suspect, User, CourtHearing, LegalDocument.
* After consolidation of similar functional points, there are 12 functional requirements in total (FR8 and FR14 excluded, FR1 and FR2 merged).
* Among them, 1 hallucinated requirement: Criminal Profile Management (FR5), due to introducing an isolated entity (CriminalProfile).
* There are 11 non-hallucinated requirements.