# Functional Requirement

1.1 Complaint Registration Function   
Function ID: FR-01   
Description: Citizens can register a new complaint with the system. The system validates the input data, generates a unique complaint ID, and assigns the complaint to the appropriate criminal police personnel for investigation.   
Input: Complaint type, date, location, description of incident, and verified citizen identity.   
Output: A new complaint record stored in the system with a complaint ID and a confirmation message sent to the citizen.  
  
1.2 View Complaint Details Function   
Function ID: FR-02   
Description: Authorized actors (Security Administrator, Court Case Search, Criminal Police Personnel) can view the details of a registered complaint. The system logs the viewing action and displays any related court case information if available.   
Input: Valid complaint ID and actor credentials.   
Output: Complaint details displayed to the user, including type, date, location, description, and related court case information.  
  
1.3 Update Investigation Status Function   
Function ID: FR-03   
Description: Criminal Police Personnel or Security Administrators can update the status of an investigation. The system validates the update and logs the action. If the complaint is linked to a court case, the system updates the court case status accordingly.   
Input: Valid complaint ID, investigation status (e.g., "Under Investigation", "Solved", "Closed"), and optional notes or evidence.   
Output: Updated investigation status stored in the system, with status changes reflected in related court cases if applicable.  
  
1.4 Delete Investigation Record Function   
Function ID: FR-04   
Description: Security Administrators or Criminal Police Personnel can delete an existing investigation record. The system checks for authorization, logs the deletion, and updates the complaint and court case records if necessary.   
Input: Valid complaint ID and confirmation of deletion.   
Output: Investigation record removed from the database, and related records updated or unchanged as required.  
  
1.5 Register Criminal Information Function   
Function ID: FR-05   
Description: Criminal Police Personnel can register new criminal information based on a complaint. The system validates the data, generates a criminal information ID, and links the record to the complaint and court case, if applicable.   
Input: Valid complaint ID, suspect details, evidence, and witness statements.   
Output: A new criminal information record stored in the system, linked to the complaint and court case (if any).  
  
1.6 View Criminal Profile Function   
Function ID: FR-06   
Description: Authorized actors (Criminal Police Personnel, Security Administrator) can view the profile of a registered criminal. The system ensures data privacy and provides access to related complaints or court cases if linked.   
Input: Valid criminal ID or search criteria (e.g., name, crime type).   
Output: Criminal profile information displayed, including personal details, criminal history, and related case information.  
  
1.7 Modify Police Personnel Details Function   
Function ID: FR-07   
Description: Security Administrators or Criminal Police Personnel can modify the details of a registered police personnel. The system validates the updated data and logs the change.   
Input: Valid personnel ID and updated details (e.g., contact info, role, status).   
Output: Updated personnel record stored in the system, with access to the updated information for authorized users.  
  
1.8 Assign Case to Police Personnel Function   
Function ID: FR-08   
Description: Security Administrators can assign a case to a specific criminal police personnel. The system validates the personnel’s availability and role before assigning and logs the action.   
Input: Valid complaint or court case ID and valid personnel ID.   
Output: The case is assigned to the selected personnel, and the assignment is logged in the system.  
  
1.9 Remove Court Case Function   
Function ID: FR-09   
Description: Security Administrators or Criminal Police Personnel can remove a court case record. The system checks for active legal processes and logs the deletion.   
Input: Valid court case ID and confirmation of removal.   
Output: Court case record deleted from the database, with related complaint records updated if necessary.  
  
1.10 Update Court Case Information Function   
Function ID: FR-10   
Description: Security Administrators or Criminal Police Personnel can update the information of an existing court case. The system logs the action and updates the linked complaint or investigation records if applicable.   
Input: Valid court case ID and updated information (e.g., case status, judgment details).   
Output: Updated court case record stored in the system, with changes reflected in related complaint or investigation records.  
  
1.11 Search for Cases Function   
Function ID: FR-11   
Description: Authorized actors can search for cases using various criteria such as case ID, complaint ID, or crime type. The system retrieves and displays relevant results and logs the search action.   
Input: Search criteria (e.g., case ID, complaint ID, date range, crime type).   
Output: List of relevant case records displayed, including status, linked complaint, and court information.  
  
1.12 Search for Criminals Function   
Function ID: FR-12   
Description: Authorized actors can search for criminal records using identifiers such as name, criminal ID, or location. The system displays the results and logs the action.   
Input: Search criteria (e.g., name, criminal ID, crime type, location).   
Output: List of relevant criminal records displayed, including personal information, criminal history, and associated case details.  
  
1.13 Submit Feedback Function   
Function ID: FR-13   
Description: Citizens can submit feedback regarding a case or complaint. The system validates the input, generates a feedback ID, and logs the submission. If the feedback is linked to a case or court case, the system updates the status accordingly.   
Input: Feedback type, description, suggestions, and optional related complaint or court case ID.   
Output: A new feedback record stored in the system with a feedback ID and a confirmation message sent to the citizen.  
  
1.14 Citizen Views Case Updates Function   
Function ID: FR-14   
Description: Citizens can view the latest updates on their complaint or court case. The system checks for authorization, retrieves the case details, and logs the viewing action.   
Input: Valid complaint or court case ID and citizen credentials.   
Output: Latest case status, investigation progress, and related court case information displayed to the citizen.  
  
1.15 Assign Role to User Function   
Function ID: FR-15   
Description: Security Administrators can assign a role to a user account. The system validates the role and logs the assignment, ensuring that the user’s access level and functionality are updated.   
Input: Valid user ID and role ID or name.   
Output: Role assigned to the user, with updated access permissions and the action logged in the system.  
  
1.16 Modify System Configuration Function   
Function ID: FR-16   
Description: Security Administrators can modify system configurations such as access levels, notification settings, and role permissions. The system validates the configuration and logs the change.   
Input: Valid configuration parameters (e.g., access control rules, notification settings).   
Output: Updated system configuration stored in the database, with changes applied to user permissions and system behavior.  
  
1.17 Delete Configuration Function   
Function ID: FR-17   
Description: Security Administrators can delete a system configuration. The system checks for authorization, verifies the configuration's impact on roles, and logs the deletion.   
Input: Valid configuration ID and confirmation of deletion.   
Output: Configuration removed from the system, with associated role configurations updated if necessary.  
  
1.18 Enforce Security Policies Function   
Function ID: FR-18   
Description: Security Administrators can enforce or modify security policies. The system validates the policy, applies the changes, and logs the action.   
Input: Policy name, description, enforcement date, and role ID if applicable.   
Output: Updated or enforced security policies stored in the system, with changes reflected in the role configuration module.  
  
1.19 Manage Administrator Permissions Function   
Function ID: FR-19   
Description: Security Administrators can manage the permissions of other administrator accounts. The system validates the role configuration and logs the changes.   
Input: Valid administrator ID and updated role permissions.   
Output: Updated administrator permissions stored in the system, with the action logged for audit purposes.  
  
1.20 Manage Case Update Function   
Function ID: FR-20   
Description: Criminal Police Personnel or Security Administrators can manage case updates (create, edit, delete). The system validates the input, logs the action, and updates the court case search module if applicable.   
Input: Valid case or complaint ID, and update details (e.g., status, description, date).   
Output: Updated case record stored in the database, with the action logged and court case information updated if linked.  
  
1.21 Manage Feedback Record Function   
Function ID: FR-21   
Description: Security Administrators or Criminal Police Personnel can manage feedback records (view, update, resolve). The system logs the action and updates the related complaint or court case if necessary.   
Input: Valid feedback ID and action to be performed (e.g., update status, add resolution notes).   
Output: Feedback record updated in the database, with associated complaint or court case records updated and the citizen notified if applicable.  
  
1.22 Manage Assignment Log Function   
Function ID: FR-22   
Description: Security Administrators or Criminal Police Personnel can manage assignment logs (view, update, delete). The system logs the action and ensures that related records (case, complaint) are updated if necessary.   
Input: Valid assignment log ID or search criteria (e.g., case ID, personnel ID, date).   
Output: Assignment log updated or deleted, with the action logged and related records updated if applicable.  
  
1.23 Delete Complaint Function   
Function ID: FR-23   
Description: Security Administrators or Criminal Police Personnel can delete a complaint record. The system checks for active court cases and logs the deletion action.   
Input: Valid complaint ID and confirmation of deletion.   
Output: Complaint record removed from the database, with related court cases updated if necessary.  
  
1.24 Create Investigation Function   
Function ID: FR-24   
Description: Criminal Police Personnel or Security Administrators can create an investigation record for a complaint. The system validates the complaint and assigns the investigation to the appropriate personnel.   
Input: Valid complaint ID and details for the investigation (e.g., assigned personnel ID, initial status).   
Output: New investigation record stored in the database, with the complaint and court case (if any) updated accordingly.  
  
1.25 View Investigation Function   
Function ID: FR-25   
Description: Criminal Police Personnel or Security Administrators can view the details of an ongoing investigation. The system logs the action and displays related court case or complaint information if available.   
Input: Valid investigation ID and actor credentials.   
Output: Investigation details displayed, including complaint ID, personnel assigned, status, and any related court case information.  
  
1.26 Update Criminal Profile Function   
Function ID: FR-26   
Description: Criminal Police Personnel or Security Administrators can update a criminal’s profile. The system validates the input data and logs the update action.   
Input: Valid criminal ID and updated information (e.g., personal details, criminal history, investigation findings).   
Output: Updated criminal profile stored in the database, with related complaint or court case records updated if necessary.  
  
1.27 Delete Criminal Record Function   
Function ID: FR-27   
Description: Security Administrators or Criminal Police Personnel can delete a criminal record. The system checks for active court cases or investigations and logs the deletion.   
Input: Valid criminal ID and confirmation of deletion.   
Output: Criminal record removed from the database, with related records updated or invalidated if necessary.  
  
1.28 Create Police Personnel Function   
Function ID: FR-28   
Description: Security Administrators can create a new police personnel record. The system validates the input data, assigns a role, and logs the creation.   
Input: Personnel details (e.g., name, contact info, role, department) and valid role ID.   
Output: New police personnel record stored in the database with assigned role and the action logged.  
  
1.29 Delete Police Personnel Function   
Function ID: FR-29   
Description: Security Administrators can delete a police personnel record. The system checks for active assignments and logs the deletion action.   
Input: Valid personnel ID and confirmation of deletion.   
Output: Personnel record removed from the database, with related records updated or invalidated if necessary.  
  
1.30 Create Court Case Function   
Function ID: FR-30   
Description: Security Administrators or Criminal Police Personnel can create a new court case linked to an existing complaint or investigation. The system validates the input and logs the creation.   
Input: Valid complaint or investigation ID, and court case details (e.g., case type, filing date, legal status).   
Output: New court case record stored in the database and linked to the complaint and investigation.  
  
1.31 View Court Case Function   
Function ID: FR-31   
Description: Security Administrators or Criminal Police Personnel can view court case details. The system retrieves the data, logs the viewing action, and provides access to related complaint or investigation records if available.   
Input: Valid court case ID and actor credentials.   
Output: Court case details displayed, including type, filing date, legal status, and related complaint or investigation information.  
  
1.32 Delete Role Function   
Function ID: FR-32   
Description: Security Administrators can delete a role configuration. The system checks if the role is in use and logs the deletion action.   
Input: Valid role ID and confirmation of deletion.   
Output: Role record removed from the configuration database, with related user assignments invalidated if necessary.