项目文档

# Functional Requirement

Requirement ID Description Input Output Functional Description  
FR-001 Register a new citizen complaint Citizen submits complaint details (e.g., name, address, incident description) Complaint registration confirmation and reference number The system allows a citizen to file a complaint online, which is stored in the database with a unique reference number.  
FR-002 Assign complaint to investigating officer Officer selects complaint from queue Assignment confirmation and status update A logged-in police officer can assign a complaint to themselves or another officer for investigation.  
FR-003 Update complaint status Officer updates status (e.g., under investigation, closed) Updated status displayed to user Officers can update the status of an assigned complaint at any time.  
FR-004 Search for criminal records User enters search criteria (e.g., name, case number, FIR number) List of matching criminal records The system provides advanced search capabilities for criminal data based on various parameters.  
FR-005 Generate reports User selects report type and filters Generated PDF/Excel report The system allows users to generate reports such as monthly crime statistics, case progress, etc.  
FR-006 Manage court cases Officer links complaint to court case Case tracking information The system enables officers to track court proceedings related to each complaint.  
FR-007 Send notification to citizen System detects status change Notification via SMS/email The system automatically sends notifications to the complainant about the current status of their case.  
FR-008 Configure user roles and permissions Admin defines roles and permissions  
FR-009 Link complaint to case Officer selects a complaint and links it to an existing or new criminal case Case number is assigned to the complaint The system allows officers to link complaints to formal cases for tracking.  
FR-010 Manage evidence Officer uploads documents, photos, video files related to the case Evidence stored in the system with metadata The system provides secure storage and management of digital and physical evidence.  
FR-011 Add suspect information Officer enters details about a suspect (name, age, known associates, previous crimes) Suspect record created and linked to relevant case The system allows adding and managing detailed information about suspects.  
FR-012 Assign tasks to field staff Officer assigns specific investigation tasks (e.g., interview witness, collect evidence) to subordinates Task assigned with due date and status tracking Officers can delegate investigative tasks to junior officers or detectives.  
FR-013 View task progress Officer views assigned and pending tasks List of tasks with current status The system displays all active and completed tasks for each user.  
FR-014 Generate crime statistics report Admin selects time range, location, or crime type Graphical and tabular reports on crime trends The system generates reports showing crime patterns and trends for decision-making.  
FR-015 Mobile access for field police Police use mobile app to update case status, add notes, upload evidence Real-time data sync with server Field officers can access and update case information using a mobile application.  
FR-016 Multilingual support System detects user language or allows selection from supported languages Interface displayed in selected language The system supports multiple languages to cater to diverse users.  
FR-017 Audit log for sensitive actions All critical actions (e.g., deletion, modification) are logged Log entry with user, action, timestamp, and IP address A complete audit trail is maintained for accountability and security.  
FR-018 Automatic alert for repeat offenders System identifies individuals with prior criminal records Alert message sent to officer If a suspect has a history of similar offenses, the system raises a flag automatically.  
FR-019 Integration with CCTV footage Officer uploads or links CCTV video to a case Video file stored and indexed by case number The system allows integration of surveillance footage for investigation purposes.  
FR-020 Citizen portal: Track complaint status Citizen logs in and checks their complaint's current status

# External Description

3. External Interfaces  
3.1 Hardware Interfaces  
Desktop/laptop computers used by police stations  
Mobile devices for field officers  
Printers for generating physical copies of reports  
3.2 Software Interfaces  
National Crime Records Bureau (NCRB) database  
Aadhaar authentication system  
State-level police databases  
Court management systems  
Email/SMS gateways for notifications  
3.3 Communication Interfaces  
HTTPS for secure web communication  
RESTful APIs for integration with other government systems  
WebSocket for real-time notifications