# Functional Requirement

✅ Functional Requirements for CCTNS System  
FR 1: Complaint Registration  
Input: Incident details (date, time, location, type of crime), citizen information (name, contact)  
Output: Generated FIR number, confirmation message via SMS/email  
Description: The system allows citizens to register complaints online. Input data is validated, and a unique FIR is generated.  
FR 2: FIR Tracking  
Input: FIR number or citizen ID  
Output: Current status of the FIR, case details, and history  
Description: Users can track the progress of their complaint or FIR using an assigned FIR number or personal identification.  
FR 3: Case Management  
Input: FIR details, investigation notes, evidence files, officer assignments  
Output: Updated case file with timestamps and alerts for pending actions  
Description: Officers can update case status, add notes, upload evidence, and assign tasks to other officers.  
FR 4: Court Interaction  
Input: Court orders, hearing dates, legal documents  
Output: Updated court timeline, reminders for upcoming hearings  
Description: Legal officers can manage court proceedings, submit documents, and receive notifications about scheduled hearings.  
FR 5: Criminal Profile Management  
Input: Personal and biometric data of individuals (e.g., name, age, fingerprints)  
Output: Criminal profile and history report  
Description: Maintains and updates profiles of known criminals based on past convictions and current activities.  
FR 6: Advanced Search and Reporting  
Input: Filters such as name, location, date, crime type  
Output: List of matching cases or persons, reports in PDF/Excel format  
Description: Allows authorized users to search for specific data and generate detailed reports.  
FR 7: Role-Based Access Control  
Input: User login credentials  
Output: Access to features based on user role  
Description: Ensures that only authorized users can access certain modules and functions according to their roles.  
FR 8: Configuration and Customization  
Input: Admin preferences for layout, workflows, and notification settings  
Output: Modified system behavior to meet local policing needs  
Description: Administrators can customize the system interface and workflow to suit regional or departmental requirements.  
FR 9: Case Type Management  
Input: Case type name, description, applicable legal statutes  
Output: Updated case type list  
Description: System allows administrators to add, modify, or delete case types used by police when creating new cases.  
FR 10: Suspect Management  
Input: Suspect's name, gender, age, contact info, initial charges  
Output: Suspect record ID and associated case information  
Description: Supports temporary suspect registration and links suspects to relevant cases for further investigation.  
FR 11: Evidence Management  
Input: Evidence name, type (physical, video, audio), upload time, uploaded by  
Output: Evidence archive ID, download link  
Description: Provides secure upload and storage of digital evidence, with support for retrieval by case or time.  
FR 12: Automated Notification System  
Input: Case status change event (e.g., “Evidence Collected”, “Arrest Made”)  
Output: SMS or email notification sent to designated users  
Description: Sends automated alerts to relevant stakeholders upon key case events or due dates.  
FR 13: Data Analysis and Statistical Reporting  
Input: Time range, region, case type filters  
Output: Graphical and tabular reports (PDF/Excel) showing crime trends  
Description: Generates statistical reports and visualizations for crime analysis and policy planning.  
FR 14: Multilingual Support  
Input: User language preference setting  
Output: UI displayed in selected language  
Description: The system supports multiple languages (e.g., Hindi, English, Tamil) to accommodate diverse user bases.  
FR 15: Mobile Application Functionality  
Input: Camera input, voice recording, GPS location, offline form entry  
Output: Field data stored locally and synchronized when online  
Description: Mobile app supports offline case drafting, photo/video capture, and automatic sync once connectivity is restored.