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## DBMS: IT 214

# Legal Guardian Database:

To design and implement a database that both public and police can overview. Public can file a complaint while police can search for old records as well as keep track of ongoing cases and inventory.

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### **Application Users:**

- 1. \_Police
- 2. Public (Lawyers, Judges)

## **Use Cases-Police**

According to their posts, one can

- **Update Evidence Inventory, Current Suspects, Witness Records:**

1. Update the evidence inventory as the case progresses.
2. Keep the records of current suspects updated, including any changes in status or additional information.
3. Continuously update witness records.

- **Police Involved:**

Easily add or remove officers based on their involvement.

- **Maintain and Modify Warrants:**

1. Create, maintain, and modify warrants as needed.
2. Update warrant details, including the nature of the warrant, target information, and expiration dates.
3. Track the execution status of warrants and any related actions.

- **Update Transfer Histories and Personal Details:**

1. Maintain accurate transfer histories for individuals involved in the case.
2. Update personal details of Police personnel.

- **Modify Police Shifts:**

Allow for the modification of police officers' shifts involved in the case.

- **Track Vehicle Inventory and Arms Inventory:**

1. Keep a detailed inventory of police vehicles used in the case.
2. Update information about each vehicle, including maintenance records and assignments.
3. Track the inventory of firearms and other equipment used in the investigation.

- **Track Jail Inmates:**

1. Maintain a comprehensive record of individuals detained in connection with the case.
2. Track inmate details, including charges, and release dates.
3. Update the status of inmates as the case progresses through the legal system.

## Use Cases-Public

- **Lawyers**

They play a crucial role in the legal system, and the database aims to provide them with a user-friendly interface to access relevant information efficiently. Here are the key features and functionalities for lawyers:

- **Access to Evidence Inventory:**

1. Lawyers can view the inventory of evidence related to a particular case.
2. Detailed information about each piece of evidence, including description, date of collection, and chain of custody, should be available.

➤ **Witness Record Access:**

1. Lawyers can access and review witness records associated with a specific case.
2. Details about witnesses, including their statements, contact information, and any prior involvement in legal proceedings, should be accessible.

➤ **View Old Criminal Records:**

1. Lawyers should have the capability to search and view historical criminal records.
2. Access to comprehensive criminal histories, including charges, **convictions**, and sentencing details, should be made available.

## • **Judges**

➤ **Witness Record Access:**

1. Judges have the capability to review witness records linked to a particular case.
2. Details about witnesses, their statements, and contact information should be accessible to aid in fair and just decision-making.

➤ **Court Hearings Information:**

1. Judges can access information related to court hearings for a specific case.
2. Details such as hearing dates, proceedings, and outcomes should be available for reference.

➤ **Access to Criminal Records of Suspects:**

1. Judges should be able to retrieve and review the criminal records of the suspects involved in a case.
2. Detailed information on charges, convictions, and sentencing history is crucial for making well-informed legal decisions.

## **Tentative list of Queries**

➤ **For Police**

- I. Average age of Rank II officers.
- II. Update the Rank of all the officers by 1 who have been solved or been involved in more than 30 cases in the past 6 months unless they are top ranking officers.
- III. Officers who have been transferred to a particular city.
- IV. Criminals who have been sentenced to death and were caught by police of topmost rank.
- V. Officers who work on case ID "" and have been associated with the past case of the suspects.
- VI. Active warrants (not expired).

- VII. Arms used for case ID "".
- VIII. All the criminals who had multiple warrants but never went to jail.
- IX. List details of the suspects of a particular case who has been to jail more than twice.
- X. Number of officers working on date "" case wise.
- XI. All the female officers above the age of 31.

### ➤ **For Lawyers**

- I. List Name, Gender and Age of the witness for a case with case ID "".
- II. List Name, Rank and Police ID of police officers involved in a case with case id "".
- III. List details of the suspect who has been to a court hearing more than twice.
- IV. List the details of evidences collected between a certain date interval.

### ➤ **For Judges**

- I. Update the status of an ongoing case.
- II. List down the criminal record of all the suspects.
- III. List the judges who previously gave verdict on a given criminal.
- IV. List the judges who gave largest duration of imprisonment.