🕵️ Crime Information Management System

Domain Description:

The main objective of this system is to maintain and manage detailed information on the crime that happened in an area under a particular police station.

Roles-

1. Admin role

2. public role (no account required)

Admin can:

Note: Don't create a table to store the credentials of the administrator. Keep the username and password fixed for admin (like username: 'admin' password: 'admin')

1. Login with his account

2. Add crime details with details crime_id, type (May have any one value from Robbery, Theft, Homicide), description, ps_area (This is police station area), date, name of victim

3. update crime details using crime_id, can update type, description, ps_area, date and name of victim

4. Add criminal details criminal_id, name, dob, gender, identifying_mark, first_arrest_date, arrested_from_ps_area

5. update criminal details like using criminal_id, can update name, dob, gender, identifying_mark, first_arrest_date, arrested_from_ps_area

6. Assign criminals to crime.

7. remove criminal from crime.

8. delete crime using crime_id

9. delete criminal using criminal_id

10. Logout his account

Facilities available for public

1. Can view total crime for each police station area for a date range.

2. Can view total crime for each crime type for a date range.

3. Can search for criminal by name

4. Can search for crime by description

Note:

1. Please maintain **many to many** relationships between crime and criminals because a crime can be committed by more than one criminal and one criminal can be involved in many crimes.

2. Kindly throw the appropriate exception for any invalid data entry.

3. Always use the **auto_increment** column as the primary key and the same column should be a foreign key in another table.

4. All the required columns must have a value like the date and place of the crime that can't be null.

5. Kindly prepare **ER-Diagram** & database credentials must be read from the **properties** file do not put them in code.

6. The project must be started from one class and shouldn't be started again and again for different use cases.

Additional Features (Great to have but not compulsory)

1. Allow public to file complaint using this software

2. Integrate system to contain information about the unsolved cases (You have to maintain suspects also)