

DBMS PROJECT

Topic - CRIME RECORD MANAGEMENT SYSTEM



TEAM MEMBERS :

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INTRODUCTION

The Crime Record Management System manages records about cases, its criminals and who takes over its charge. It can be accessed by Admin and Police officers. Admin having greater privilege , i.e. he can access all the data and edit it while police officers may have data related only to the case and not further it.

PROBLEM STATEMENT :

The Criminal Record has many cases.

Each Case has case_id, status, case_name, FIR, Crime and a Victim. Case has a crime, which includes crime type, crime ID, Police ID, Crime Description and Crime location. Case ID uniquely identifies a case.

Each FIR has FIR ID, FIR description and FIR_status , case Id. FIR ID uniquely identifies a FIR.

Each victim has an ID, Name, Birthdate, location, crime ID, unique National ID. Victim ID uniquely identifies a case. Case is made on a criminal.

Criminal has its ID, name, photograph, mobile number, height, weight, number of crimes he/she did, crime ID and criminal location.

Criminals may have multiple contact numbers. Criminal ID uniquely identifies a Criminal. Criminal makes a crime.

Each crime has crime ID,case ID, its Description, and location.Crime ID uniquely identifies a crime.

Judge judges a case.Judge has it's ID, name, Court and case ID. Judge ID uniquely identifies a Judge.

To get access, Records has login. It consists of login Role ID, username and password.

By specifying Role and Password, one may get access as per the role. Admin will get privileged access than any police officer.

Admin has Admin ID, Name, Email, Location and a username to manage cases. Admin ID uniquely identifies an Admin.

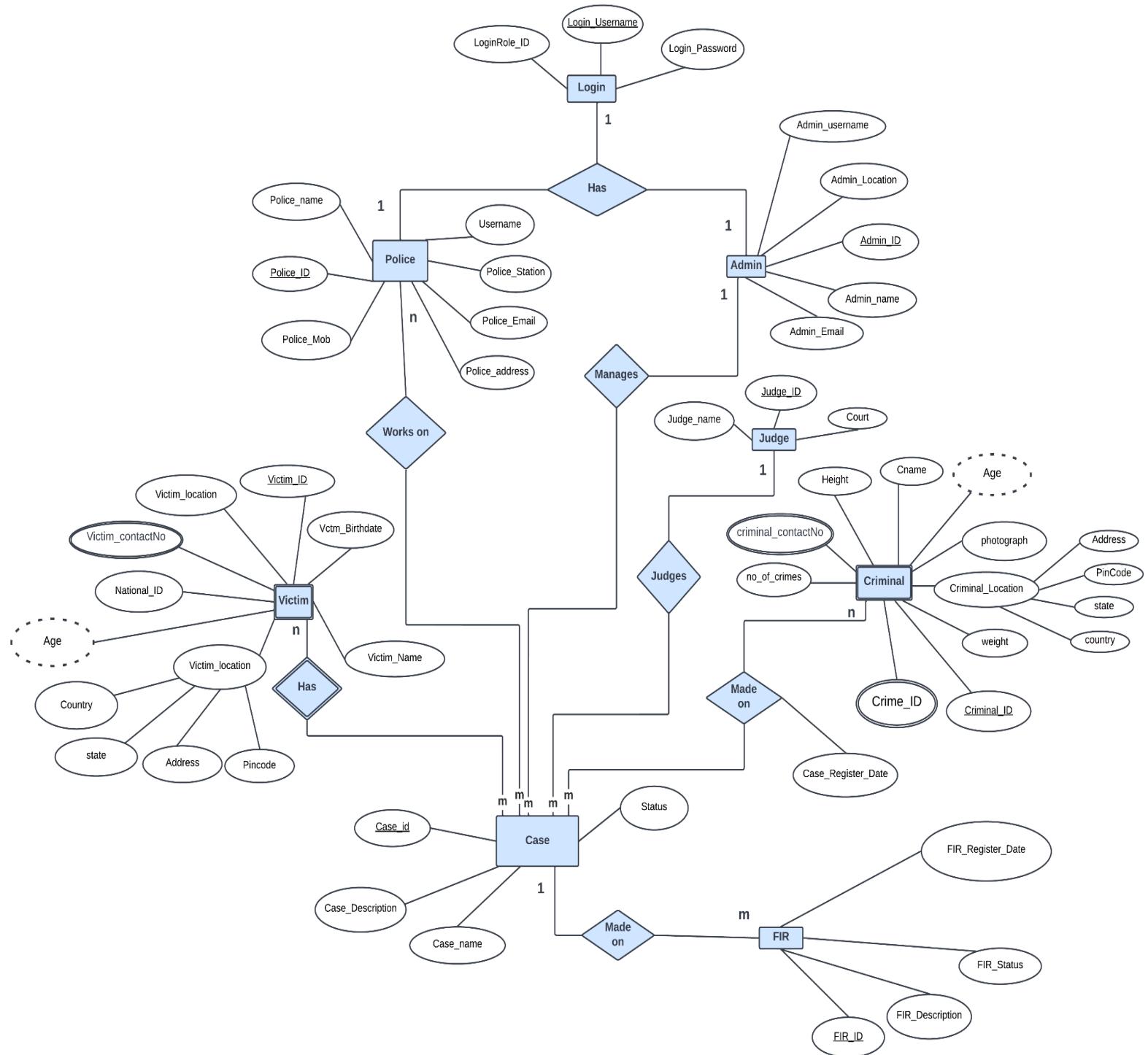
Police work on case . Police have a Police ID, name, address, email, Mobile number, Police station and username to access records. Police ID uniquely identifies a Police.

Each Location is made up of country, state ,pincode and address.

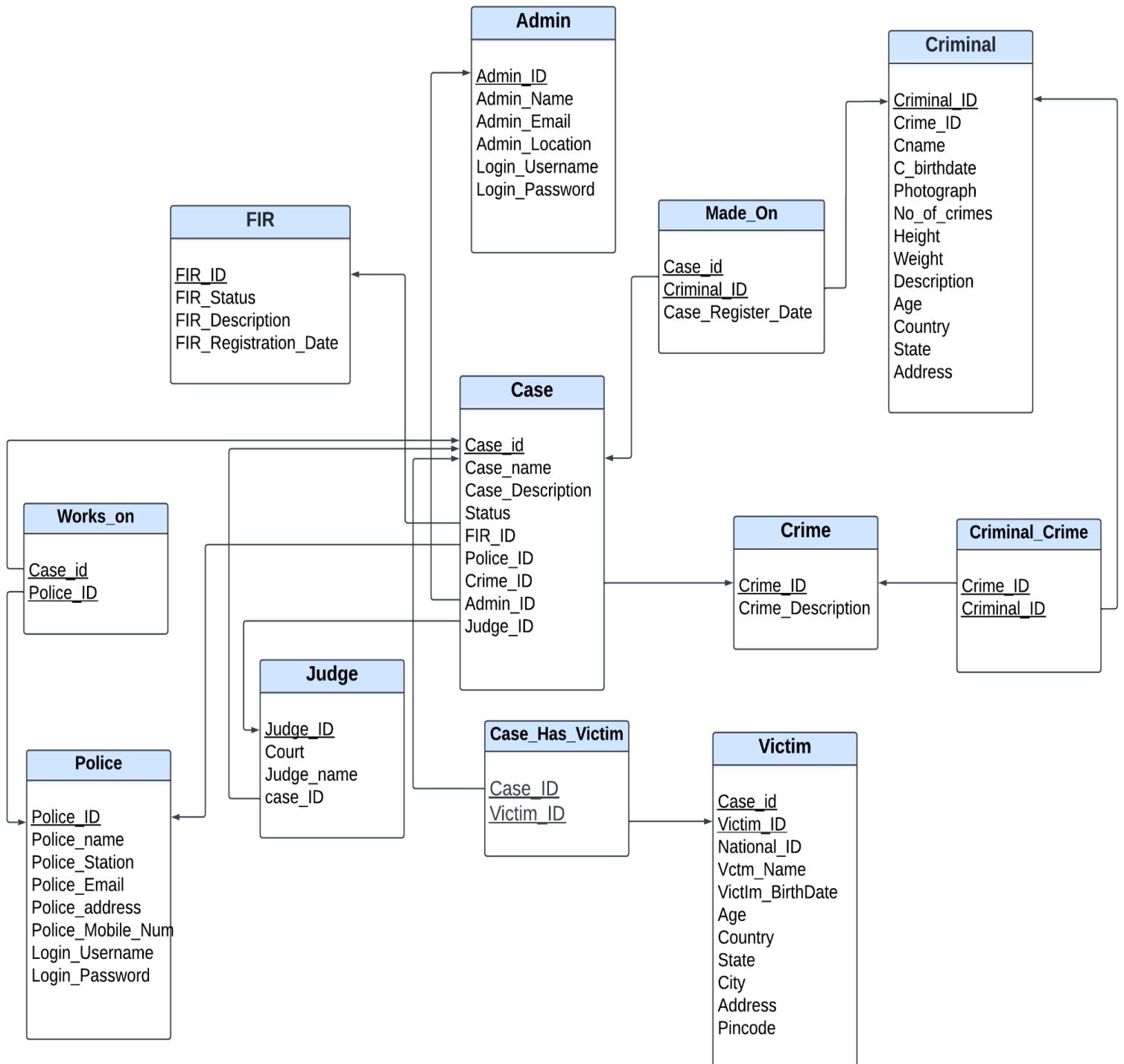
DATA

ENTITY	ATTRIBUTES
Case	<u>case_id</u> , status, case_name , crime_ID(FK), case_registration_date, case_closed_date, FIR_ID(FK), Criminal_ID(FK), Police_ID(FK), Victim_ID(FK), Judge_ID(FK)
FIR	<u>FIR_ID</u> , FIR_Description, FIR_Status,date_reported
Victim	<u>Victim_ID</u> , Victim_Name, crime_ID, Victim_Birthdate, National_ID,Victim_location(Country,state,Address,Pincode)
Criminal	<u>Criminal_ID</u> , criminal_name , criminal_img, height, weight, and Criminal_Address(Country,state,Address,Pincode).
Crime	<u>Crime_ID</u> , crime_Description, crime_name.
Judge	<u>Judge_ID</u> , Judge_name, Court
Admin	<u>Admin_ID</u> , Admin_name, Admin_username, Admin_Email, password, Admin_Address,city
Police	<u>Police_ID</u> , Police_name, Police_Mob, Police_Email, Username, Police_address, Police_Station, gender, password
Criminal Crime	Criminal_ID, Crime_ID

ENTITY RELATIONSHIP (ER) DIAGRAM -



RELATIONSHIP SCHEMA DIAGRAM -



DOMAINS:

- Case -
Case_id int (15), status varchar(10), case_name varchar(15) , crime_ID varchar(15)(FK), case_registration_date date, case_closed_date date, FIR_ID int (11)(FK), Criminal_ID int (11)(FK), Police_ID int (11)(FK), Victim_ID int (11)(FK), Judge_ID int (11)(FK)
- Crime -
crime_ID int (PK), crime_Description varchar(30), crime_name varchar(20)
- FIR -
FIR_ID int (PK),FIR_Status char (10), FIR_Description varchar(30), date_reported date.
- Victim -
Victim_ID int(11) (PK),crime_ID int(15), Victim_Name varchar(15) , Victim_Birthdate Date, National_ID char(10),Country char(10),state char(10),Address char(20),Pincode char(10).
- Victim_Contact -
Victim_ID int (FK) ,contact_Num int(10).
- Criminal -
crime_ID int(15) (PK),Criminal_ID int (PK) ,Cname varchar (10), criminal_img varchar (25) ,height float ,weight float , Country char(10),state char(10),Address char(20),Pincode char(10).
- Crime -
Crime_ID int(15) (PK), crime_Description varchar(30),Country char(10),state

char(10),Address char(20),Pincode char(10).

- Judge -

Judge_ID int (PK), Judge_name varchar(30), Court varchar (15)

- Admin -

Admin_ID int (PK), Admin_name char (20), Admin_username char(20), Admin_Email varchar (25), Admin_Location varchar (20).

- Police -

Police_ID int (PK), Police_name char(20), Police_Mob int(10), Police_Email varchar(25), Username char(20), Police_address varchar(20), Police_Station varchar (10), Login_Username char (15)(FK).

- CriminalCrime-

Criminal_ID int(10), Crime_ID int(11)

RELATIONAL ALGEBRA:

1] Retrieve name and court of judge where Judge_ID=1234

$\pi_{\text{name}, \text{court}}(\sigma_{\text{Judge_id}='1234'}(\text{Judge}))$

2] Select Criminal tuple who has crime cases more than 5.

$(\sigma_{\text{no_of_cases} > 5}(\text{Judge}))$

3] Print name of all users who can log in Criminal Records

$(\pi_{\text{name}}(\text{Police})) \cup (\pi_{\text{name}}(\text{Admin}))$

4] Find crime_Type of Crime done by criminal whose criminal_ID is 4536.

$\pi_{\text{crime_type}}(\sigma_{\text{criminal_ID}='4536'}(\text{Crime} \bowtie_{\text{Crime.Crime_ID}=\text{Criminal.Crime_ID}} \text{Criminal}))$

5] Find photograph of person who is victim as well as criminal (can be in different cases)

Image $\leftarrow \pi_{\text{photograph}}(\text{Criminal} \cap \text{Victim})$

QUERIES :

1. Deleting row from database Admin where Admin ID is given.

```
DELETE FROM Admin where Admin_ID='$id';
```

2. Displaying all information from database Admin.

```
SELECT * FROM Admin;
```

3. Updating information in Admin database:

```
Update Admin set Admin_ID='$Admin_ID',Admin_Name='$Admin_Name',  
Admin_Username='$Username', Password='$Password', Admin_Email='$emailId',  
Admin_Address='$address', city='$city' where Admin_ID='$id"';
```

4. Displaying information of Criminal where criminal id matches the one which is entered:

```
SELECT * FROM criminalCrime where Criminal_ID='$Criminal_ID';
```

5. Inserting values in database:

```
INSERT INTO Crime (crime_ID,Crime_Name,crime_Description) VALUES  
('$crime_ID','$Crime_Name', '$crime_Description');
```

6. Counting number of crimes where one criminal can do multiple crimes and relation

between criminal and crimes is in other tables.

```
SELECT COUNT(*) AS count  
FROM criminal  
INNER JOIN  
criminalcrime  
ON criminal.Criminal_ID=criminalcrime.Criminal_ID;
```

7. Sorting Criminals by State.

```
SELECT * FROM Criminal where State='$State'
```

FUNCTIONALITIES:

ADMINISTRATOR CAN:

1. Register Admin
2. Register Police Officer
3. Register Judge
4. View, update and delete details about Admin.
5. View, update and delete details about Police Officer.
6. View, update and delete details about Judge.

POLICE OFFICER CAN:

1. Add Criminal
2. Add Victim
3. Register Case
4. Register FIR
5. View and update details about FIR.
6. View and update details about Victim.
7. View and update details about Criminal.
8. View and update details about Case.
9. Search Criminal by State, Name and Crime.
10. Sort criminals by crime Rate.

SAMPLE CODE AND FUNCTIONS:

INSERT ADMIN FUNCTION :

```
$query2="INSERT INTO Admin (Admin_name,Admin_username,Password,Admin_Email,Admin_Address,City)
VALUES ('$Admin_name', '$Admin_username','$Password','$Admin_Email','$Admin_Address','$City')";
```

UPDATE FUNCTION :

```
$query="Update Admin set Admin_Name='$Admin_Name', Admin_Username='$Username',
Password='$Password', Admin_Email='$emailId', Admin_Address='$address', city='$city'
where Admin_ID='$id'";
```

DISPLAY FUNCTION :

```
<?php
include("connection.php");
$query01 = "SELECT * FROM Admin";
$data1 = mysqli_query($conn,$query01);
$total = mysqli_num_rows($data1);

if($total != 0){
    while($result = mysqli_fetch_assoc($data1)) {

        echo "<tr>
            <td>".$result['Admin_ID']."</td>
            <td>".$result['Admin_name']."</td>
            <td>".$result['Admin_Username']."</td>
            <td>".$result['Password']."</td>
            <td>".$result['Admin_Email']."</td>
            <td>".$result['Admin_Address']."</td>
            <td>".$result['City']."'</td>
            <td ><a href='adminUpdate.php?PID=$result[Admin_ID]'><input type='submit' value='Update' class='update' ></a>

            <a href='adminDelete.php?PID=$result[Admin_ID]'><input type='submit' value='Delete' onclick='return checkDelete()'>
            </a></td>
        </tr>";
    }
} else{
    echo "<h2>NO Records in database!!!</h2>";
}
```

SEARCH BY STATE FUNCTION:

```
$State = $_POST['State'];
$query = "SELECT * FROM Criminal where State='$State'";
$data = mysqli_query($conn,$query);

$total = mysqli_num_rows($data);
```

DETAILS OF CRIMINAL FUNCTION:

```
<?php
include("connection.php");
$query01 = "SELECT * FROM Criminal";
$data1 = mysqli_query($conn,$query01);
$total = mysqli_num_rows($data1);

if($total != 0){
    while($result = mysqli_fetch_assoc($data1)){
        $Criminal_ID = $result['Criminal_ID'];

        $query02 = "SELECT * FROM criminalCrime where Criminal_ID='$Criminal_ID'";
        $data2 = mysqli_query($conn,$query02);
        $total2 = mysqli_num_rows($data2);

        echo "<tr>
            <td>".$result['Criminal_ID']."</td>
            <td><img src= '".$result['criminal_img']."' height='100px' width='100px' ></td>
            <td>".$result['Criminal_name']."</td>
            <td>";

        while($result2 = mysqli_fetch_assoc($data2)){
            echo " ".$result2['Crime_ID']. " ";
        }

        echo "</td>
            <td>".$result['Address'].", ".$result['State'].", ".$result['Country'].", ".$result['Pincode']."'</td>
            <td>".$result['Height']."'</td>
            <td>".$result['Weight']."'</td>
            <td><a href='criminalUpdate.php?CID=$result[Criminal_ID]'><input type='submit' value='Update' class='update' ></a>
            </td>
        </tr>";
    }
} else{
    echo "<h2>NO Recordes in database!!!</h2>";
}
```

SORT BY ORDER(COUNT AND ORDER BY) :

```
$query01 = "SELECT * FROM Criminal natural join CriminalCrime group by Criminal.Criminal_ID  
order by count(CriminalCrime.Crime_ID) desc";
```

COUNT FUNCTION :

```
$query01 = "SELECT COUNT(*) AS count FROM criminal INNER JOIN criminalcrime  
ON criminal.Criminal_ID=criminalcrime.Criminal_ID";
```

SEARCH BY CRIME ID:

```
$query = "SELECT * FROM Criminal natural join criminalCrime where Crime_ID='$Crime_ID'";
```

SEARCH BY CRIMINAL NAME:

```
$query = "SELECT * FROM Criminal where Criminal_name like '%$Criminal_name%'";
```

SNAPSHOTS OF RESULTS:

Index Page:

It is a page where there is no restriction of authorization. It is available and can be seen by everyone. It has a login button, crime count(in database) and information to be available to everyone

The screenshot shows a web browser window with the following details:

- Header:** localhost / localhost:3307 / dbcra | Crime Management Home Page | +
- Address Bar:** localhost/project/project/
- Header Content:** National Crime Record And Control Bureau (with the Indian National Emblem) and a **Login** button.
- Main Content:**
 - Section Header:** CRIME COUNT : 14
 - Text:** Crime is not only a malafide occurrence which violates the law of state, but also a negative externality with enormous social and economic costs. Rapid changes in how people interact with each other especially on global scale enhanced by the internet, create a social dynamic which criminals can easily take advantage of in extending their reach. The statistics presented in the report will help in data based analysis and understanding the complex phenomenon of crime.
 - Text:** The general objective of the report is to present the statistics on crime that can be used as a tool in helping law enforcement officials in its controlling. Data based policing can help focus on a specific area and allow police resources to be used more effectively.
 - Section Header:** Salient Fields
 - Text:** The report contains statistical information on cognizable crimes as reported in police stations during the reference year. Information on police casualties and police firing, police & civilians casualties is given in separate chapters to ensure adequate focus to these issues. Information on complaints against police personnel and custodial crimes has also been given in separate chapters. It has been our constant endeavour to improve the scope, coverage, content and presentation of the publication. In this connection, the Bureau has started publication of dedicated chapters on cyber crimes, human trafficking, crime against senior citizens, crime against foreigners inter-alia foreign tourists, offences against the State, environment related offences and seizures of arms & drugs by police. Besides, data on economic crimes, recidivism and crime in railways has also been given in separate chapters. Information on kidnapping and abduction is presented in respect of total population, women & girls and children separately.
 - Section Header:** Data Generates Research and Decision Making:
 - Text:** The report is the only, and most comprehensive, databank available with the Government of India on the subject. The data contained in the report is used by policy makers, NGOs, researchers and public at large. Keeping in view the extensive, and increasing, dependence of various stakeholders on the information contained in the report, we have, on our own initiative, digitised all the editions of the report from 1953 to 2019 and made them available on our website.
- System Tray:** Shows icons for search, taskbar, and system status (35°C Sunny, 21:32, 30-05-2022).

Crime Details

Crime ID	Crime Name	Crime Description
100	Robbery	Taking something by force
101	Theft	Something is stolen
102	kidnapping	taking someone away by force
103	Rape	Forcing someone to have sexual relation
104	Trafficking	Trading goods, drugs etc illegally
105	Smuggling	Taking goods illegally from country to country
106	Assassination	Killng someone
107	Shoplifting	Stealing merchandise

CRIME REPORT NEWSLETTER

Kolkata: 5 arrested from Eden Gardens for betting during IPL match

A five-member betting racket was busted by the Kolkata Police last night. The gang was betting from inside the Eden Gardens stadium as the IPL playoffs continued. During the match between Lucknow Super Giants (LSG) and Royal Challengers Bangalore (RCB), the Kolkata police arrested three individuals inside the stadium premises.

Odisha: Son of priest shot dead in front of Puri's Jagannath Temple

A 17-year-old teen killed his 11-year-old cousin brother after he refused to give him a mobile phone.

01 A 17-year-old man killed his 11-year-old cousin in a fit of rage in Gujarat's Khera. The older sibling hit the victim with a stone and then threw him into a well after he refused to give him a mobile phone.

02 Tamil Nadu: Dalit woman, harassed by moneylenders, kills self in Tirupur; 2 arrested

A Dalit woman in Tamil Nadu's Tirupur killed herself after she was verbally harassed and threatened by a moneylender and his mother. Both have been arrested by the police.

National Crime Record And Control Bureau

28 May, 2024 | Issue 32

INDORE WOMAN HARASSED BY IN-LAWS FOR DOWRY AFTER CLAIMING HUSBAND IS IMPOTENT

A woman, who is a resident of Indore in Madhya Pradesh, has filed a police complaint against her in-laws accusing them of harassing her physically and torturing her for dowry. The victim alleged that her in-laws started harassing her for dowry after she found out that her husband is impotent.

MINOR GIRL IN TELANGANA ACCUSES ALCOHOLIC FATHER OF TORTURE, KILLS SELF

CYBERCRIME REPORTS

Interpol arrests leader of Skin-Terri Cyber Crime Gang behind BEC Attacks

Odisha: Son of priest shot dead in front of Puri's Jagannath Temple

Malware

Odisha: Son of priest shot dead in front of Puri's Jagannath Temple

Telecom firm hit by fake Google reviews

Police investigate cyber incident at Guernsey medical group

28 May, 2024 • Issue 32

National Crime Record And Control Bureau

You can login as Administrator or Police Officer, both having different view levels.

Logging as Administrator:

National Crime Record And Control Bureau

CRIME COUNT : 14

Login

[Login as Administrator](#)

[Login as Officer](#)

Crime is not only a malafide occurrence which violates the law of state, but also a negative externality with enormous social and economic costs. Rapid changes in how people interact with each other especially on global scale enhanced by the internet, create a social dynamic which criminals can easily take advantage of in extending their reach. The statistics presented in the report will help in data based analysis and understanding the complex phenomenon of crime.

The general objective of the report is to present the statistics on crime that can be used as a tool in helping law enforcement officials in its controlling. Data based policing can help focus on a specific area and allow police resources to be used more effectively.

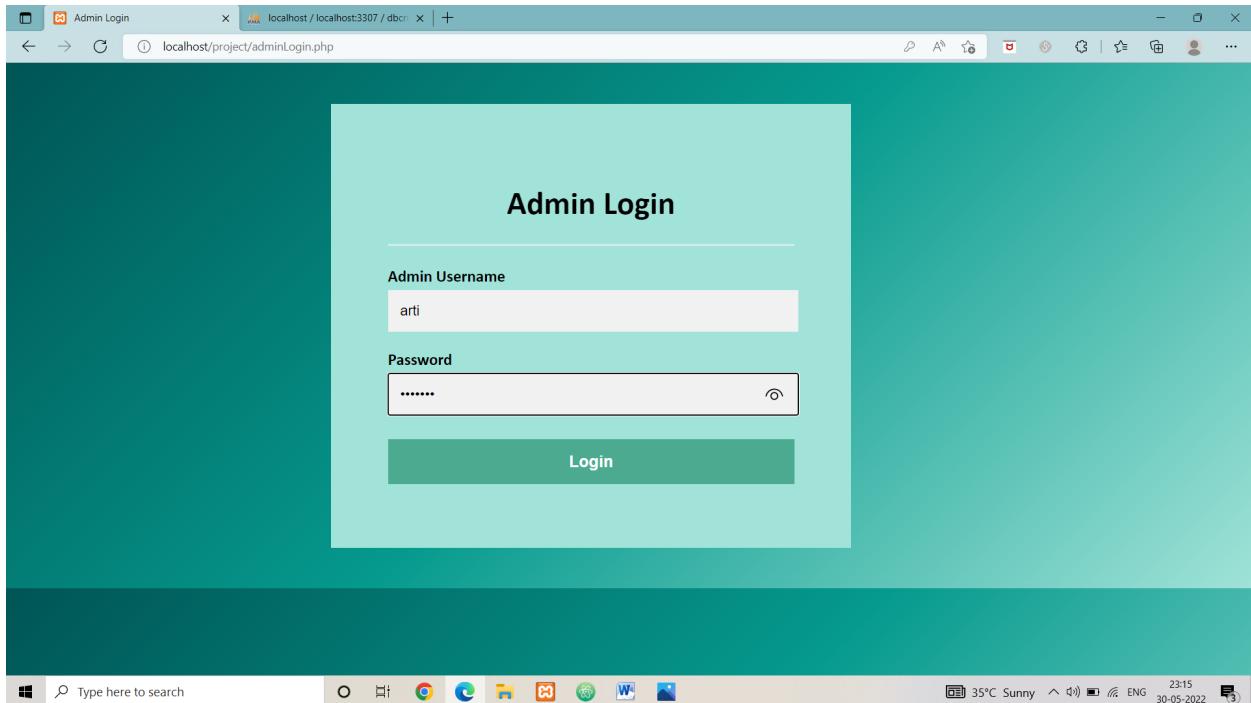
Salient Fields

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Data Generates Research and Decision Making:

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You are then asked for username and Password to login as a Administrator



Admin Page:



Admin can Register Admin, Police and Judge.

Admin Registration:

The screenshot shows a web browser window titled "Admin Registration" with the URL "localhost/project/adminRegistration.php". The page has a teal header with the title "Admin Registration Form". Below it is a form with the following fields:

- Admin Name:** Arti Tambade
- User Name:** arti
- Password:**
- Email:** arti@gmail.com
- Address:** RaviKiran Apartments

The browser taskbar at the bottom shows other open tabs for WhatsApp, Meet, and a weather widget.

Admin Details: (Update and Delete options)

The screenshot shows a web browser window titled "Admin Details" with the URL "localhost/project/adminDetails.php". The page features a dark header with the National Crime Record And Control Bureau logo and a "Back to Admin Page" link. The main content area is titled "Admin Details" and displays a table of registered administrators:

Admin ID	Admin Name	Admin Username	Password	Admin Email	Admin Address	City	Operations
2600	44	z	z	r@gmail.com	555	4	Update Delete
2601	Sakshi Bhosale	sakshi	sakshi123	sakshi@gmail.com	Ramchandra Apartments, Mangalwar Peth	Kolhapur	Update Delete
2602	Arti Tambade	arti	arti123	arti@gmail.com	Flat No. 202, Ravikiran Apartments	Natepute	Update Delete
2603	Rajlaxmi Chougale	rajlaxmi	rajlaxmi123	rajlaxmi@gmail.com	A/P Are, Peth lane, Tal-Karvir	Kolhapur	Update Delete
2604	Shruti Gugale	shruti	shruti123	shruti@gmail.com	Shri ashtvinayak colony ring road nakoda nagar	Ichalkarnji	Update Delete

The browser taskbar at the bottom shows other open tabs for WhatsApp, Meet, and a weather widget.

Judge Details:

National Crime Record
And Control Bureau

Back to Admin Page

Judge Details

Judge ID	Judge Name	Court	Operations
400	Dipankar Datta	Bombay High Court	Update Delete
401	Gautam Tawade	Telangana High Court	Update Delete
402	Rajiv Bhatiya	Solapur High Court	Update Delete
403	Nivas Khanna	Kolhapur High Court	Update Delete
404	Lila Mehata	Mumbai Supreme Court	Update Delete
405	Prakash Shrivastav	Pune High Court	Update Delete

UPDATE:

Update Admin Details

Admin ID : 2601

Admin Name

Username

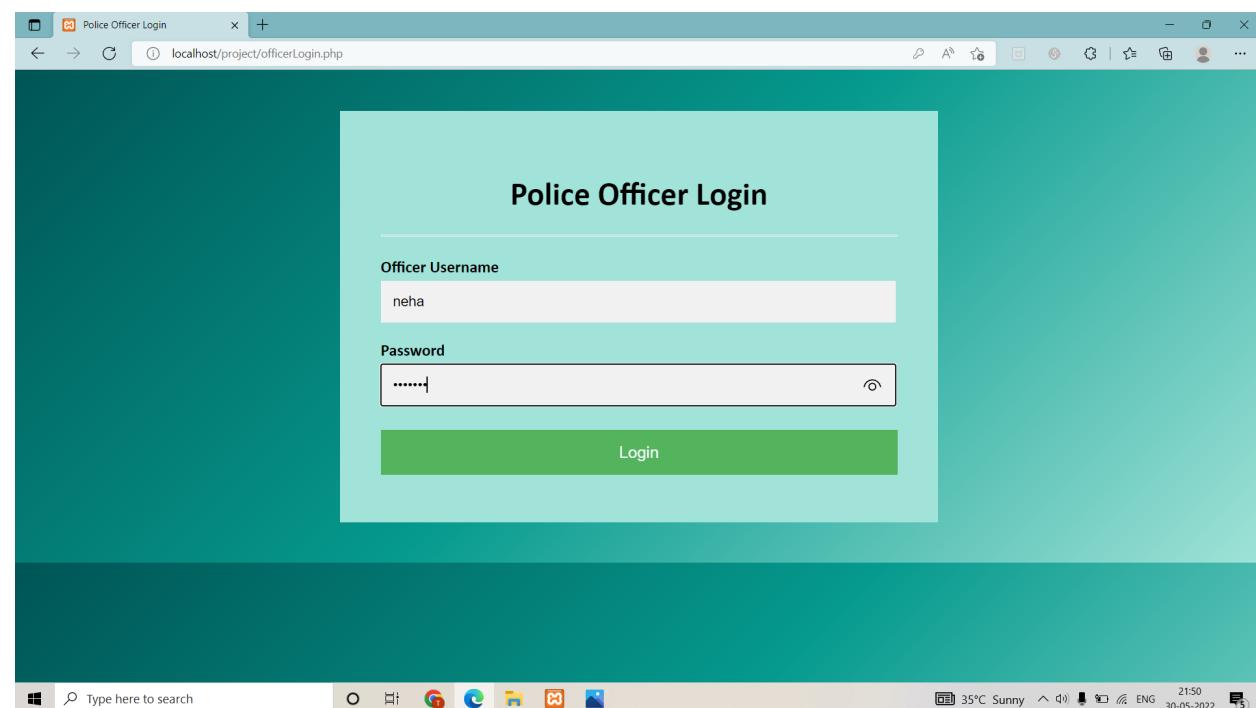
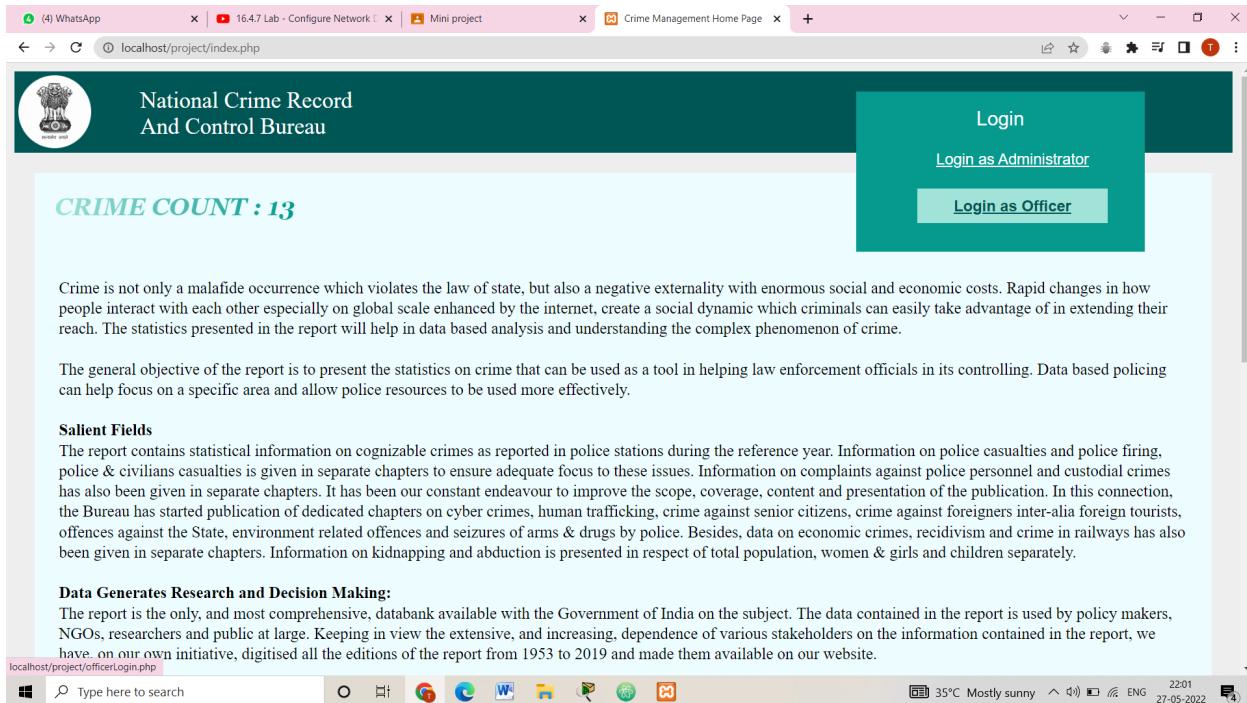
Password

Email ID

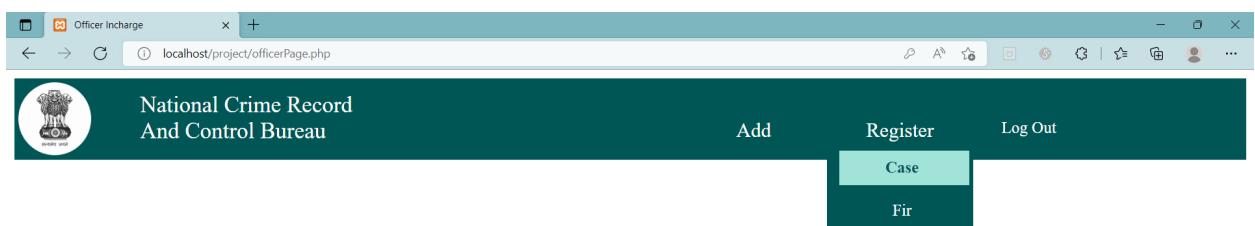
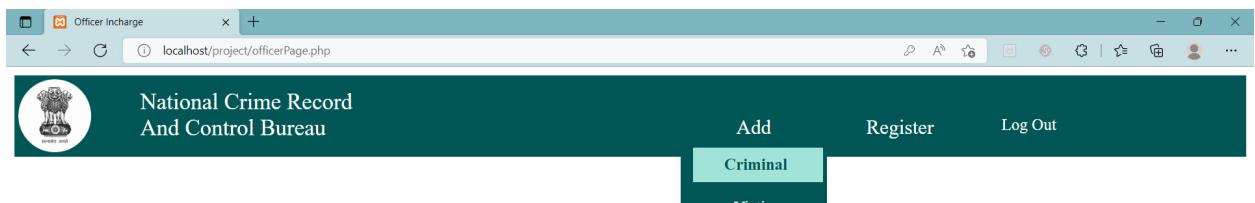
Address

City

Login as Officer:



Officer Page:



Criminal Details:

Criminals Details Back to Officer Page

National Crime Record And Control Bureau

Criminals Details

State	Crime	Criminal Name
-	-	<input type="text"/> Search

[Display Details by most Count](#)

Criminal ID	Criminal Image	Criminal Name	Crime ID	Address	Height	Weight	Operations
900		Ishita Agrawal	104	Rayamangalam, House no-45, Abhinav Colony, Kerala, India, 264327	161	62	<button>Update</button>
901		Rana Dhuvari	106	Perambalur, House no- 23, Shri Colony , Tamil Nadu, India , 874563	176	89	<button>Update</button>

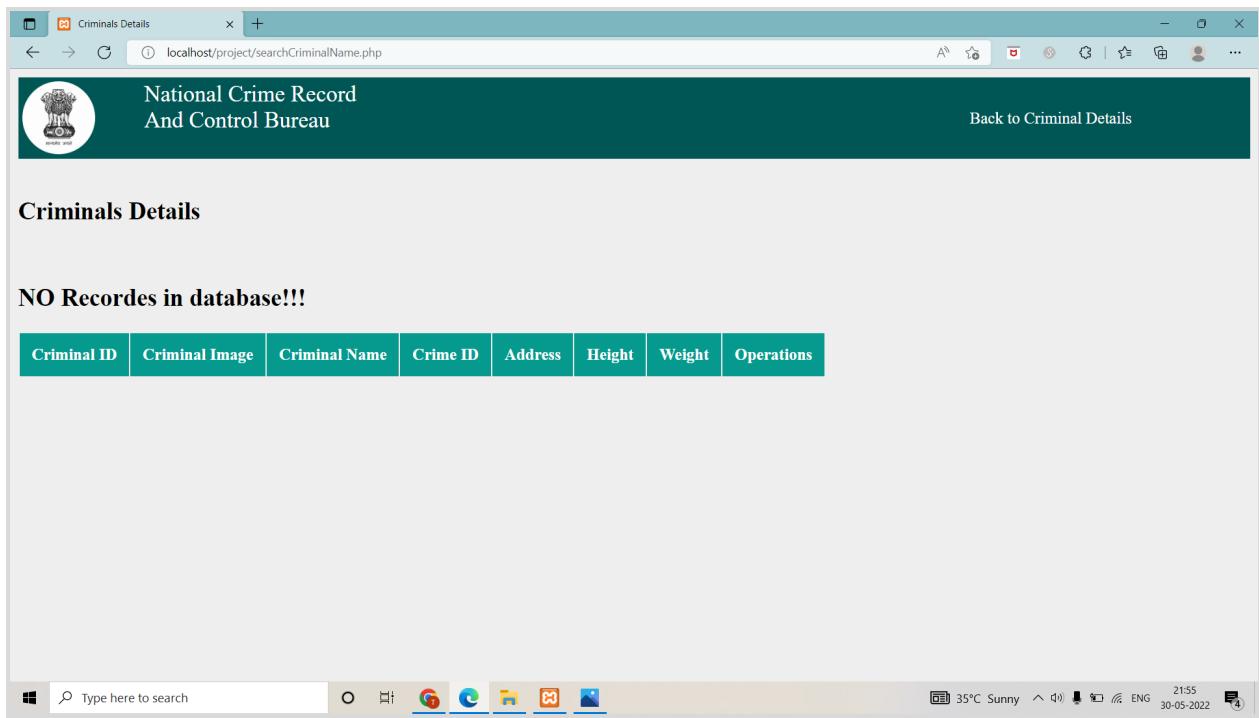
Type here to search 35°C Sunny 21:52 30-05-2022

Criminals Details Back to Officer Page

Criminal ID	Criminal Image	Criminal Name	Crime ID	Address	Height	Weight	Operations
900		Ishita Agrawal	104	Rayamangalam, House no-45, Abhinav Colony, Kerala, India, 264327	161	62	<button>Update</button>
901		Rana Dhuvari	106	Perambalur, House no- 23, Shri Colony , Tamil Nadu, India , 874563	176	89	<button>Update</button>
902		Seema Gujral	100 104	Bhitte Wadh, House no- 56, Sardar Colony, Punjab, India, 678565	157	55	<button>Update</button>
903		Sam Cardos	100 104 107	Banhatti, 5th Lane, Alan Colony, Karnataka, India, 654328	159	60	<button>Update</button>
904		Inayat Khalil	106 107	Etha, House no- 23, Agra, Uttar Pradesh, India, 543278	174	110	<button>Update</button>

Type here to search 35°C Sunny 21:52 30-05-2022

Criminals can be sorted by State, Crime, Name and also by order of most crimes done.



If Nothing related to that information is available it will show this slide- No Records Available.

Link to GitHub: <https://github.com/shrutisggugale/Criminal-Record-Project>