



# CRIMINAL DATABASE

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**COURSE NAME : DATABASE MANAGEMENT SYSTEM**

**COURSE CODE : CSE311.8**

**SUBMITTED BY:**

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## Project Report – Criminal Database Website

### 1. Introduction

This project, Criminal Database Website, was developed as part of the CSE311 Database Management Systems course.

It simulates a police criminal record management platform, where officers can manage records of criminals, cases, evidence, crimes, and victims through a web-based interface connected to a MySQL database. The system ensures structured record-keeping, data security, and accessibility for law enforcement agencies.

### 2. Database Design

The database consists of 7 interrelated tables, designed with primary keys, foreign keys, and constraints:

1. criminals – Stores criminal details (ID, name, gender, NID, status).
2. officers – Stores officer details (ID, name, username, password, rank, branch).
3. cases – Records case details (title, status, dates, description).
4. crimes – Tracks individual crimes linked to cases.
5. victims – Stores victim information linked to cases.
6. evidence – Stores evidence descriptions and file references per case.
7. criminal\_case – Junction table linking criminals with cases and their roles.

#### **Relationships:**

- One-to-Many: A case may have multiple victims, crimes, and evidence.
- Many-to-Many: Criminals and cases are linked through the criminal\_case table.

This design ensures data integrity, avoids redundancy, and maintains strong referential relationships.

### 3. Website Features

The website is implemented with HTML, CSS, JavaScript, and PHP. It provides an interactive user interface for police officers to manage criminal records.

Features include:

- Homepage: A login system for officers.
- Login & Authentication: Officers can securely log in using credentials stored in the database.
- Add Records: Forms allow insertion of new criminal, case, victim, and evidence data.
- Update Records: Officers can update case status (e.g., OPEN to CLOSED).
- Delete Records: Removal of outdated or irrelevant entries.
- Search & Filter: Officers can search criminals by name, filter cases by status, or track evidence by case ID.
- Reports: Cases and criminal information can be viewed with details of associated officers and evidence.

Potential Future Enhancements:

- Role-based access (separating Admin vs. User permissions).
- Integration with fingerprint or biometric records.
- Automatic report generation in PDF format for cases.
- Real-time crime statistics dashboard with data visualization.

## 4. SQL Features Implemented

SQL operations demonstrated include:

- CREATE TABLE, INSERT, UPDATE, DELETE for basic CRUD functionality.
- Queries using WHERE, ORDER BY, LIKE, DISTINCT for searching and filtering.
- Joins (INNER JOIN, LEFT JOIN, multi-table joins) to retrieve relational data.
- Aggregate functions (COUNT, SUM, AVG, GROUP BY, HAVING) for statistical insights.
- Subqueries for advanced queries (e.g., finding most active officer).
- Views for simplified reporting (e.g., ongoing cases).
- User Access Control to limit database privileges for officers.

## 5. Deliverables

The project includes:

- SQL Scripts for database creation and population.
- Source Code: Frontend (HTML, CSS, JS) and Backend (PHP).
- Sample Database with realistic Bangladeshi-style records (officers, criminals, cases).
- Screenshots of the website pages and functionalities.
- Project Report (this document).

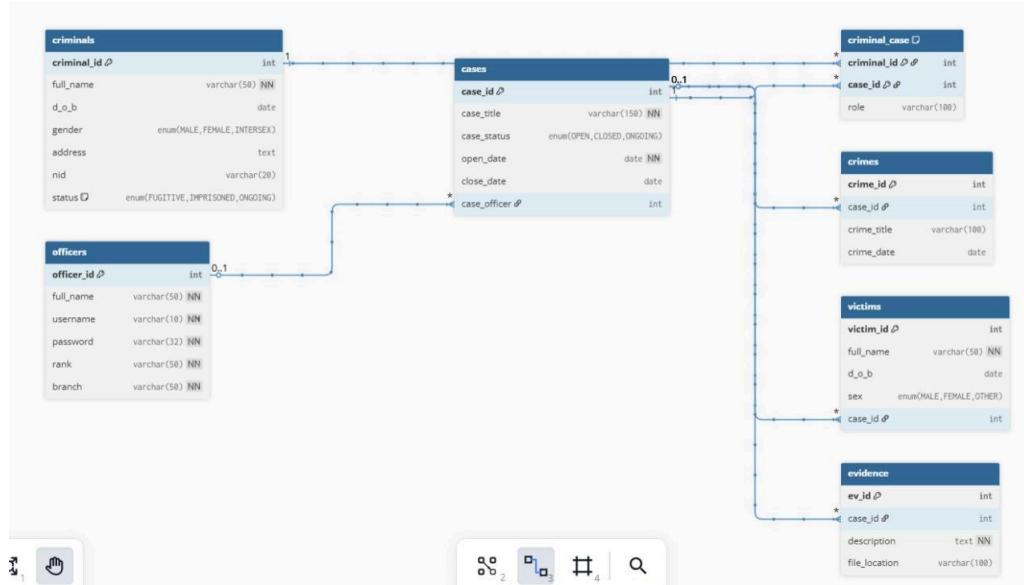
## 6. Conclusion

The Criminal Database Website successfully demonstrates a real-world style record management system.

It maintains structured records of criminals, victims, evidence, and cases, while enabling officers to add, update, delete, and search records.

The integration of relational database principles with a functional website showcases strong understanding of database design and web application development.

This project can serve as a prototype for an actual police record management system in Bangladesh,  
with further enhancements possible in authentication, biometric integration, and advanced reporting.



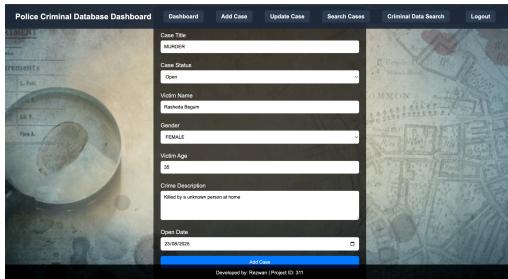
Github link : <https://github.com/rezwan143rl/Criminal-database-Website>



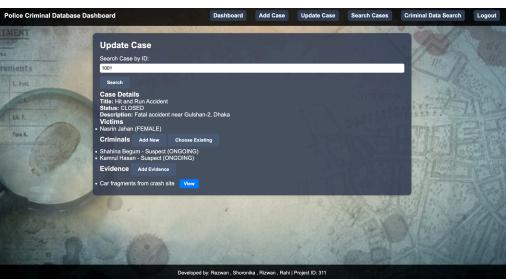
**Criminal Database**  
Access records securely  
User ID: admin  
Password: admin  
Login  
Forgot Password?



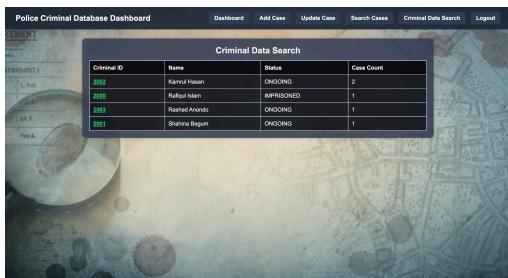
**ADMIN**  
Add Officer Delete Officer Delete Evidence Update Criminal Info Manage Cases



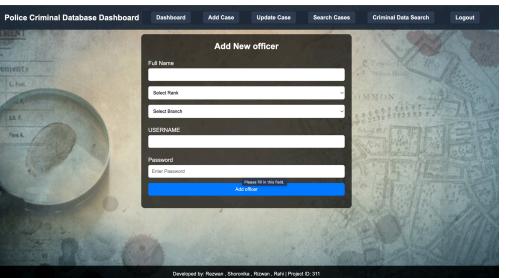
**Police Criminal Database Dashboard**  
Dashboard Add Case Update Case Search Cases Criminal Data Search Logout  
Case Title: MURDER  
Case Status: Open  
Victim Name: Rashed Begum  
Gender: FEMALE  
Victim Age: 25  
Crime Description: Killed by unknown person of home  
Open Date: 2019-01-01  
Add Case



**Update Case**  
Search Case ID: 1001  
Case Details: 1001 - Hit and Run accident  
Suspect: Rashed Begum  
Victim: Rashed Begum  
Crime Type: Hit and Run  
Crime Status: ONGOING  
Shabina Begum - Suspect (ONGOING)  
Kamal Hasan - Suspect (ONGOING)  
Evidence: Add Evidence  
Car fragments from crash site View



**Police Criminal Database Dashboard**  
Dashboard Add Case Update Case Search Cases Criminal Data Search Logout  
Select Existing Criminal  
Kamal Hasan (MALE: ONGOING)  
Role: Suspect  
Status: ONGOING  
Rafiqul Islam (MALE: IMPRISONED)  
Role: Suspect  
Status: IMPRISONED



**Police Criminal Database Dashboard**  
Dashboard Add Case Update Case Search Cases Criminal Data Search Logout  
Search Cases  
Enter Case ID: Search  
1000 - Bank Robbery at Motijheel  
1001 - Hit and Run Accident  
1002 - Drug Trafficking Case  
1003 - murder boston  
1004 - murder boston  
1005 - CYCLE CRIME  
1006 - murder boston  
1007 - MURDER



**Police Criminal Database Dashboard**  
Dashboard Add Case Update Case Search Cases Criminal Data Search Logout  
Delete Officer  
Filter by Branch: All branches  
Officer ID Name Branch  
100001 Md. Aslam Rajhan Sylhet Police  
100002 Md. Jahid Hasan Rajshahi Police  
100004 Jahan Begum Dhaka  
10001 Sharmeen Akter Chittagong Metropolitan Police



**Delete Evidence**  
Dashboard Update Case Logout  
EVIDENCE ID CASE ID CASE NAME DESCRIPTION FILE ACTION  
3 1002 Drug Trafficking Case Confiscated yaba tablets View Delete  
2 1001 Hit and Run Accident Car fragments from crash site View Delete  
1 1000 Bank Robbery at Motijheel CCTV footage from Motijheel View Delete

✓ Case and victim added successfully!