

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

## Jnana Sangama, Belgaum-590014

**A DBMS Mini Project Report**

**On**

**“POLICE DATABSE MANAGEMENT SYSTEM”**

**Submitted in Partial fulfillment of the Requirements for the V Semester of the Degree of**

**Bachelor of Engineering In**

**Computer Science & Engineering By**

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**Doddakallasandra, Kanakapura Road, Bengaluru-560061 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

Certified that the DBMS Mini Project work entitled **“POLICE DATABSE MANAGEMENT SYSTEM”** has been carried out by **SURAJ S (1CE18CS085),** bonafide student of City Engineering College in partial fulfilment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visveshvaraya Technological University, Belgaum during the year **2020-2021**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The DBMS Mini Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said Degree.

|  |  |  |
| --- | --- | --- |
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|  |  |  |
|  | External Viva |  |
| Name of the examiners |  | Signature with date |

1.

2.

**ABSTRACT**

This project includes a summary of system requirements, database design, general definition of the tools and an outline of the means of implementation of a blood donation management system. The objective of this project is the creation of a database management system capable of facilitating the stress-free management and organization of a blood donation database capable of being implemented easily by an NGO. The E-R diagram of the system, analysis/specifications, data flow diagram of the system, database schema with detailed tables, relational mapping, entity and relation descriptions,constraints and scripts of each table are outlined in detail. Subsequently, datasets and screenshots are provided to allow for visualization of the system for the users.

**ACKNOWLEDGEMENT**

While presenting this DBMS Mini Project on “**Police Database Management System”,** I feel that it is my duty to acknowledge the help rendered to me by various persons.

Firstly I thank God for showering his blessings on me. I’m grateful to my institution City Engineering College for providing me a congenial atmosphere to carry out the project successfully.

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I would also have indebted to my Parent and Friends for their continued moral and material support throughout the course of project and helping me in finalize the presentation.

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**SURAJ S (1CE18CS085)**

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**INTRODUCTION**

A database management system (DBMS) refers to the technology for creating and managing databases.Basically DBMS is a software tool to organize (create, retrieve, update and manage) data in a database.

The main aim of a DBMS is to supply a way to store up and retrieve database information that is both convenient and efficient. By data, we mean known facts that can be recorded and that have embedded meaning. Normally people use software such as DBASE IV or V, Microsoft ACCESS, or EXCEL to store data in the form of database.

Database systems are meant to handle large collection of information. Management of data involves both defining structures for storage of information and providing mechanisms that can do the manipulation of those stored information. Moreover, the database system must ensure the safety of the information stored, despite system crashes or attempts at unauthorized access.

This project aims at computerizing the manual process of storage system. Front end and backend are implemented using **HTML , MySQL, PHP** and **NODEJS** respectively. Along with the **JSP** program to analyze the program. The project consists of four types of Application forms for **Criminal record, Prisoner record, Police database management, Complaint registration.** It also consists of a **Home Page, Contact us, Login page and Regestration Page**

**The Highlighted Features of The Project includes**

**1.** A good view interface to the users.

**2.** A complaint registration page which can be retrieve for the further .

**3.** A police data storage and retrieve further usage.

**4.** A criminal record database store and retrieve for further usage.

**5.** A Prisoner Data database store and retrieve for further usage.

**6.** A Case Data database store and retrieve for further usage.

**Requirements Specifications**

**Functional Requirements :**

* CREATE POLCE DATA
* CREATE PRISONERS DATA
* CREATE CRIMINAL DATA
* COMPLAINTS DATA
* CASE DATA

**Non-Functional Requirements :**

* **OPERATING SYSTEM :** WINDOWS
* **DATABASE :** SQL
* **DEVELOPMENT TOOLS &**

**PROGRAMMING LAUNGUAGES :** HTML5 , CSS, PHP, SQL , NODE.JS , JAVA ,JS..ETC

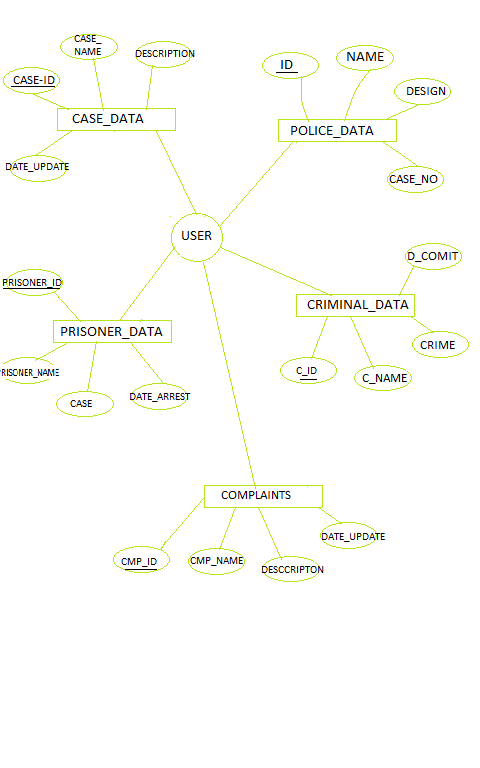
* **PROCESSOR :**  DUAL CORE 2.5GHZ
* **MEMORY :**  1 GB
* **HARD DISC :** MINIMUM 80GB HARD DISK

**Data Requirements**

* FOR THE NEW ENTRY OF POLICE DATA
* ID
* NAME
* DSIGNATION
* CASE\_NO
* FOR THE NEW ENTRY OF PRISONER DATA
* PRISONER\_ID
* PRISONER\_NAME
* PRISONER\_CASE
* DATE\_ARREST
* FOR THE NEW ENTRY OF CRIMINAL DATA
* CRIMINAL\_ID
* CRIMINAL\_NAME
* CRIME
* DATE\_COMMITED
* FOR THE NEW ENTRY OF COMPLAINTS DATA
* COMPLAINT\_ID
* COMPLAINT\_NAME
* DESCRIPTION
* DATA\_REG
* FOR THE NEW ENTRY OF CASE DATA
* CASE\_ID
* CASE\_NAME
* DESCRIPTION
* DATE\_UPDATE

**DESIGN**

**ER Diagram**



**Schema Diagram**

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | NAME | DESIGN | CASE\_NO |

|  |  |  |  |
| --- | --- | --- | --- |
| **PRISONER\_ID** | PRISONER\_NAME | PRISONER\_CASE | DATE\_ARREST |

|  |  |  |  |
| --- | --- | --- | --- |
| **CRIMINAL\_ID** | CRIMINAL\_NAME | CRIME | DATE\_COMMITED |

|  |  |  |  |
| --- | --- | --- | --- |
| **COMPLAINTS\_ID** | COMPLAINT\_NAME | DESCRIPTION | DATA\_REG |

|  |  |  |  |
| --- | --- | --- | --- |
| **CASE\_ID** | CASE\_NAME | DESCRIPTION | DATE-UPDATE |

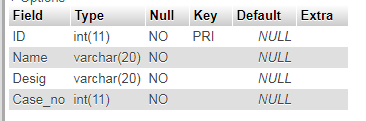
**TABLES**

***POLICE TABLE***

TABLE CONTENT :

police_table.png

TABLE DESC:

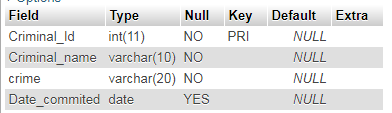


***CRIMINAL TABLE***

TABLE CONTENT:

criminal-table.jpg.png

TABLE DESC:

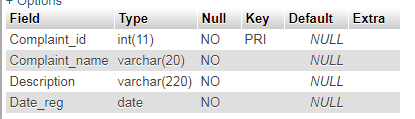


***COMPLIANT TABLE***

TABLE CONTET:

complaint-table.png

TABLE DESC :



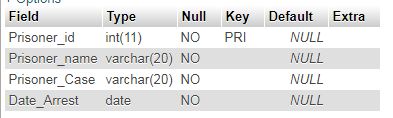
***PRISONER TABLE***

TABLE CONTEN:

T

prinsoner-table.png

TABLE DESC:

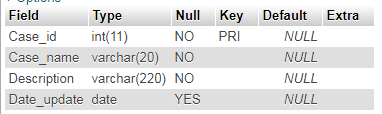


***CASE TABLE:***

TABLE CONTENT:

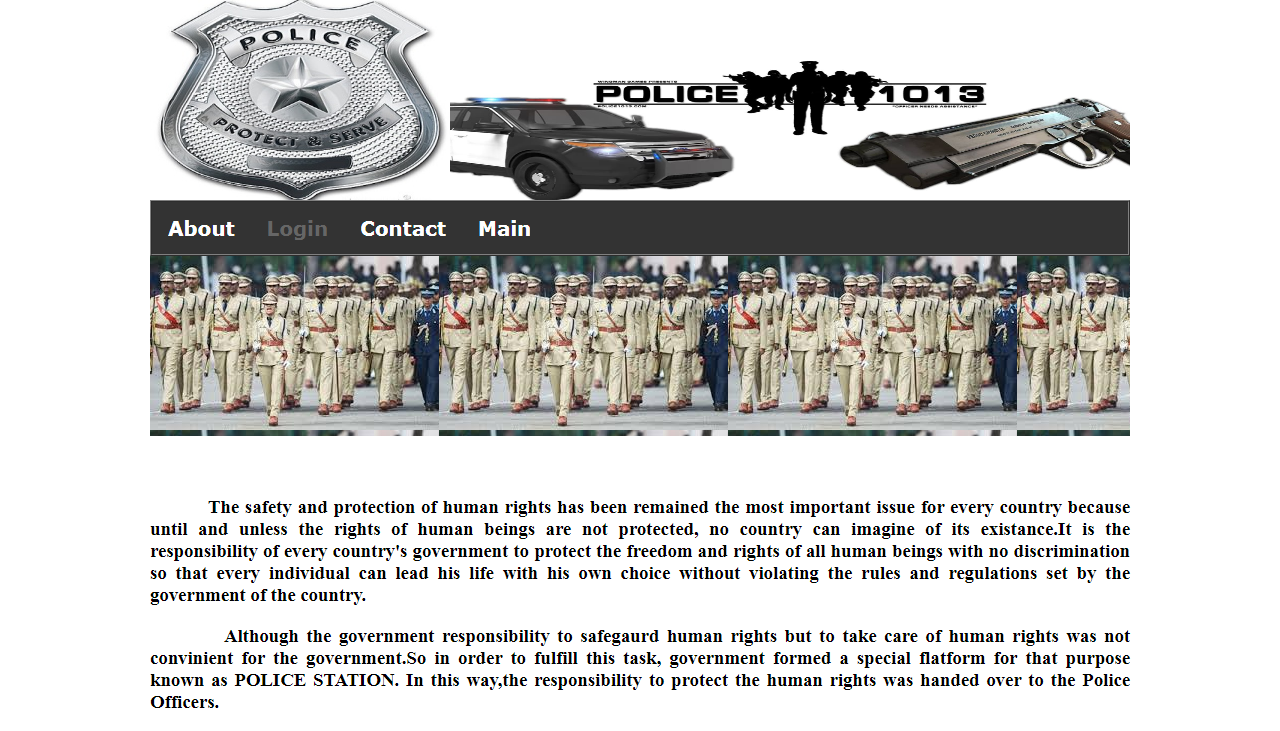
case-table.png

TABLE DESC:

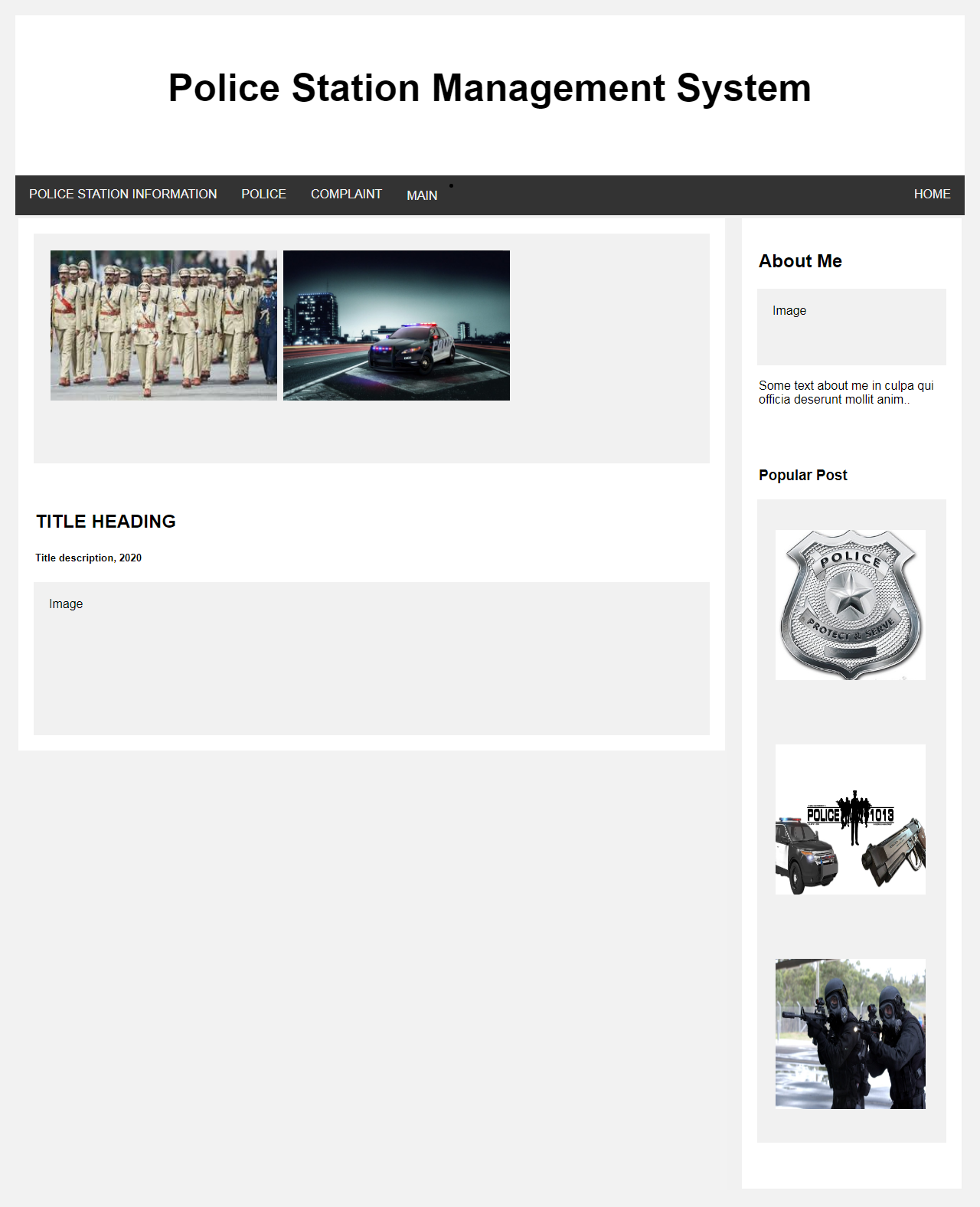


**SCREENSHOTS:**

1.HOME PAGE



2.STARTING PAGE



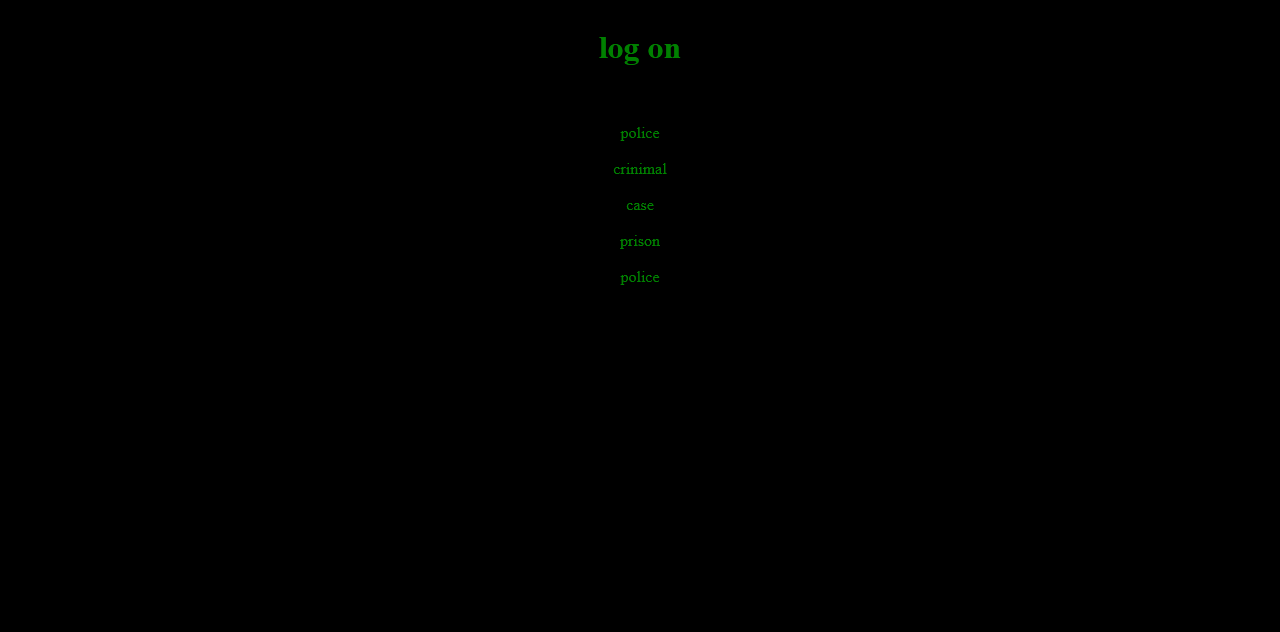
1. ABOUT PAGE



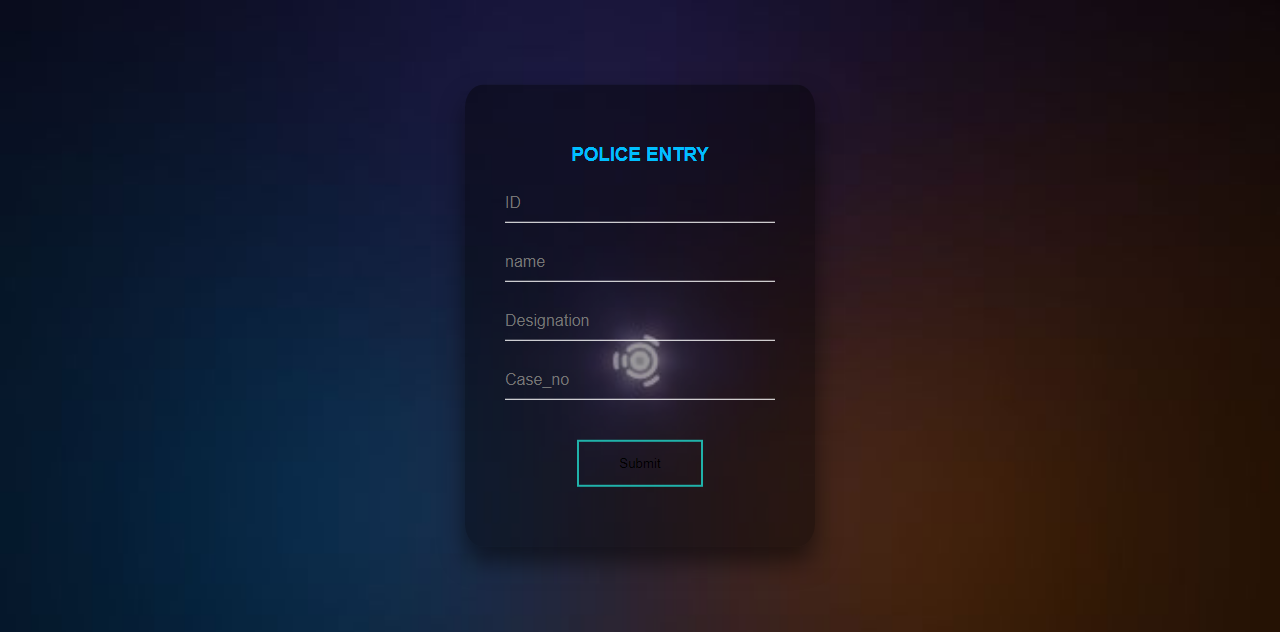
1. CONTACT PAGE



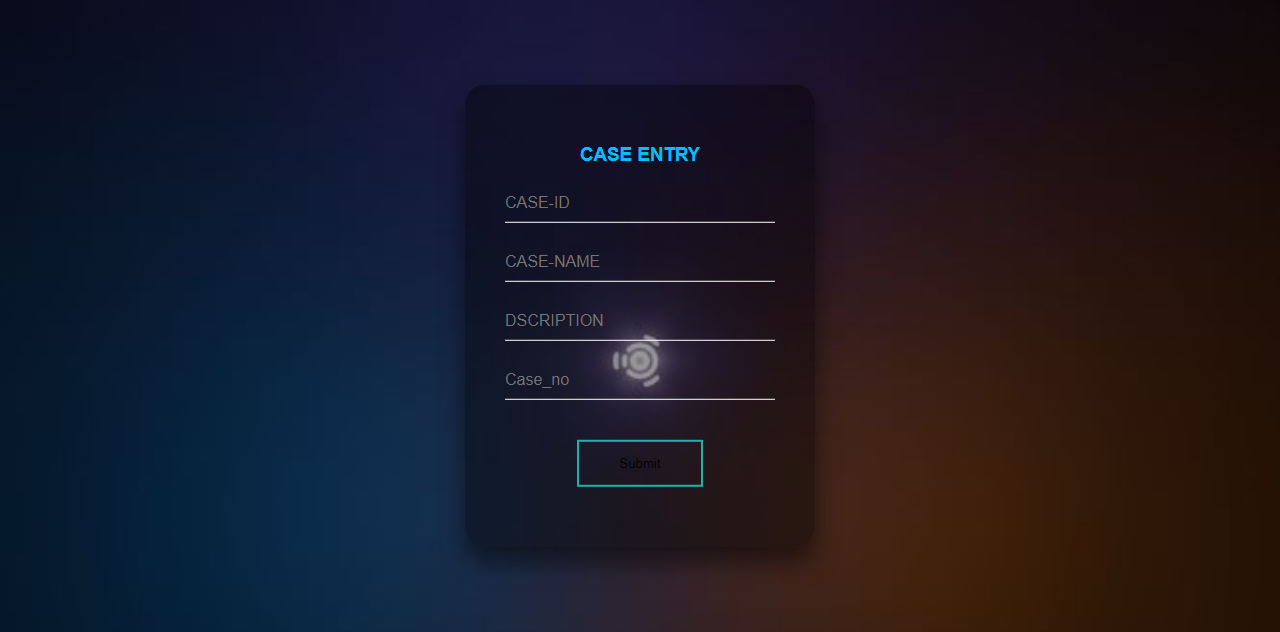
1. POILCE RECORDER



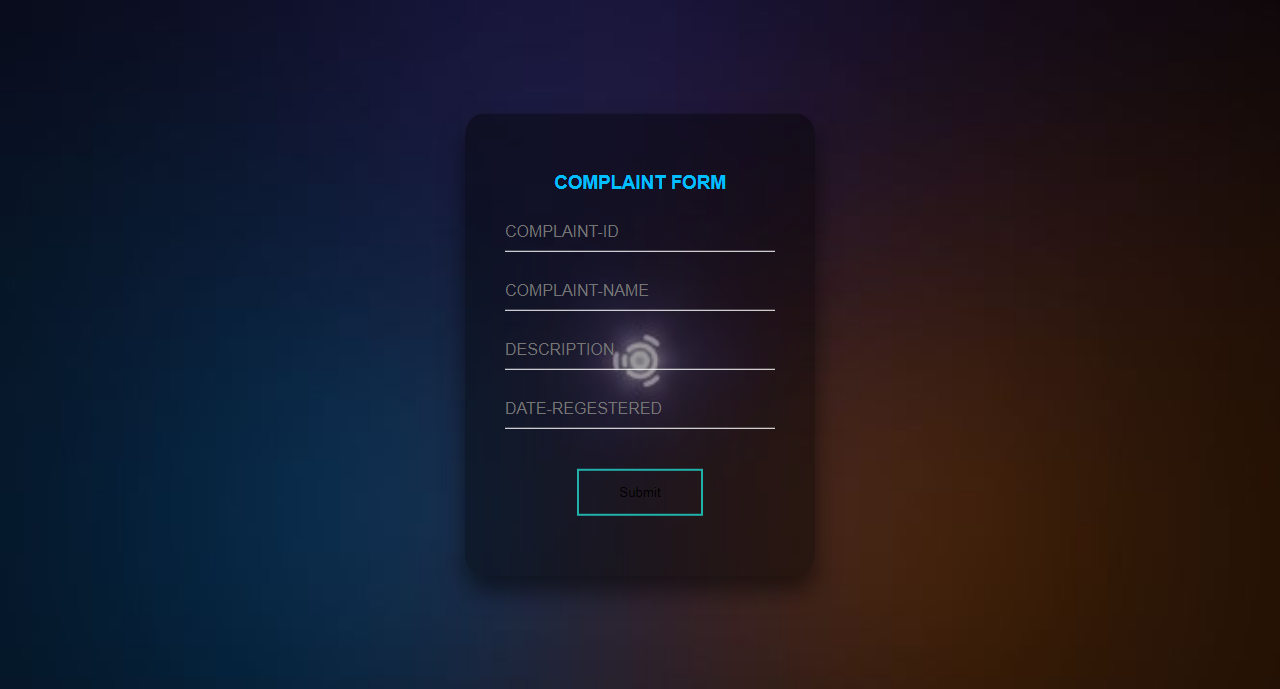
1. POICE ENTRY FORM



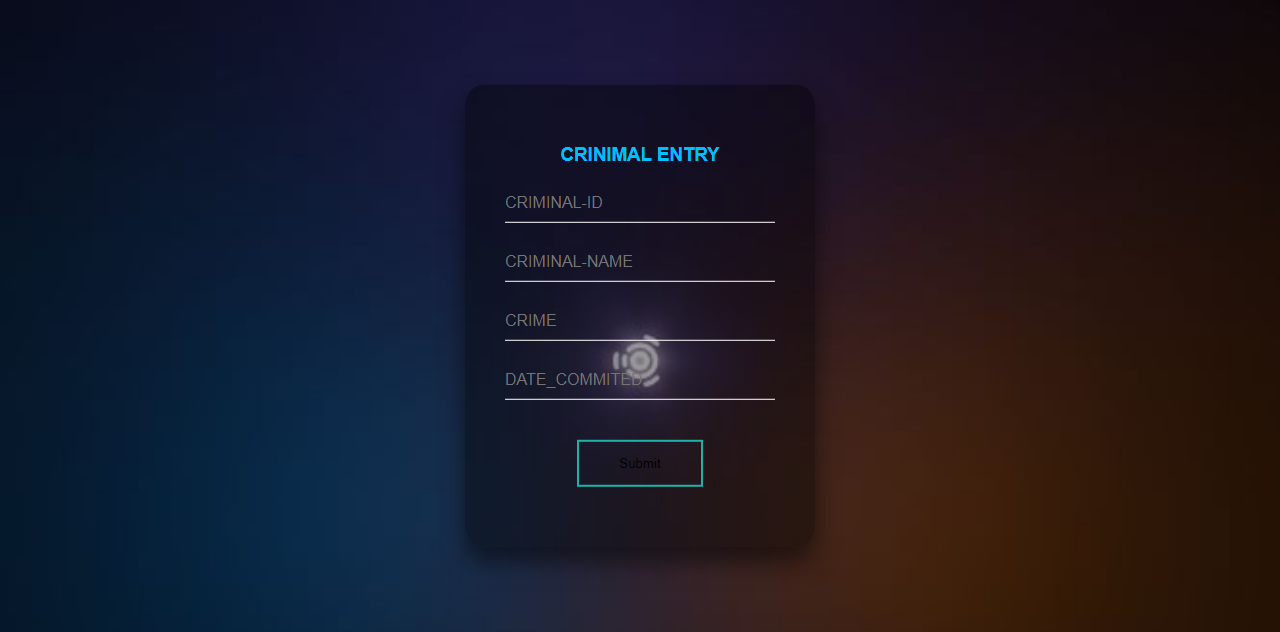
7.CASE ENTRY FORM



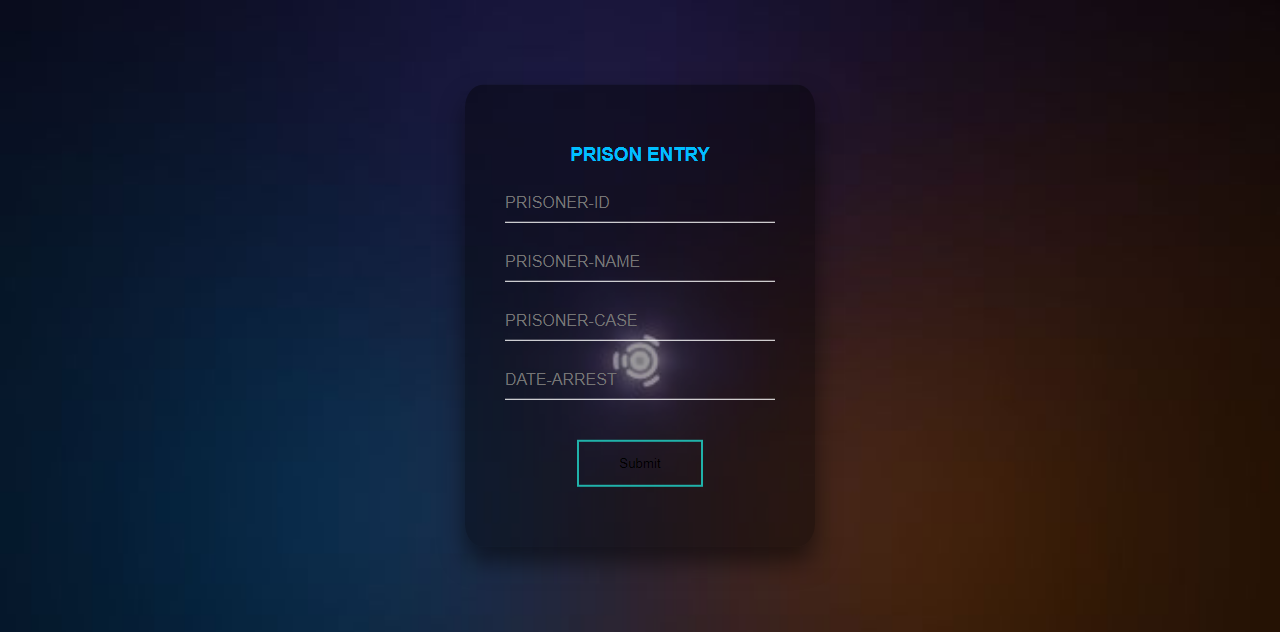
1. COMPLAINT ENTRY FROM



9.CRIMINAL ENTRY FORM



9.PRISONER ENTRY FORM



**CONCLUSION**

To conclude . Police database management system is build for the easy store of data through the server and retrieve the data needed.

Now a days all the data are stored the data from different location and different system.

So if have a good system from storing of web to the local storage or to the cloud storage

This project achieves the important goal of generating a Separate police\_id , prisoner\_id , complaint\_id , case\_id , criminal\_id…etc, thus making it easy for the police database to keep records, and thus manage their records. As it provides web-view , its useful for the user to improve all Services.

**FUTURE ENHANCEMENTS**

FOR THE FUTURE, THE PROJECT WILL BE IMPLEMENTED TO

* THE ADMIN COMPATIBILITY
* SECURITY FOR THE DATA
* BETTER USER-INTERFACE
* BETTER OPTIONS
* BETTER GRAPHICS
* MORE DATA IN TO THE DATABASE
* MERGING OF THE MORE DATABASE FOR REDUCE THE TIME CONSUMPTION
* AND GETTING ALL DATABASE INTO ONE PAGE AND DIRECTED TO THE NEXT.

**BIBILIOGRAPHY**

**For Theory Concepts**

* Fundamentals of Database Systems
* Youtube
* Google

**For Creation& Database Connection Of Application Forms**

* sqldatabase
* W3school.com
* Stack over flow

**For Basic Concepts of JavaScript**

* Javascript.com

**For Front End To Back End Using JSP**

* Html.com
* Tutorialspoint.com
* Php.net
* Nodejs.org
* W3school.com