

MINI PROJECT  
ON  
POLICE FIR MANAGEMENT SYSTEM

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## 1.PROBLEM STATEMENT

This system is based on a concept to maintain all the Fir records of a police station.And the criminals all details in a single place of all stations.

## 2.PROJECT DESCRIPTION

As there are thousands of police stations there in our state, to maintain a single record of all criminals to get access to all station criminal lists and to all police officers the project is taken such that the program is written.

This system, the user can easily add each and every convict's details such as convict's id, name, age, gender, height, weight, crime, face details, conviction etc. Apart from this, the user can view/check a list of the records, search, modify and remove records too. Login system is also available in this system to make it more secure. Before removing a record, the user has to enter the password again for the access which works as a verification. There's no chance of data misuse or loss & it's not time-consuming. The whole project is developed in 'C' Programming language, different variables and strings have been used for the development of this project. It's easy to operate and understand by users.

## 3.Features :

1. Login system
2. Password verification in removing records function
3. Each and every convict's detail
4. Easy to add, modify, remove and list convict's records

## 4. Requirements:

### 4.1 Hardware requirements

- 1.processor: Intel core 2 duo processor 2.00GHZ
- 2.Hard disk drive:29.72GB
- 3.RAM:3GB

### 4.2 Software requirements

- 1.Software: CODE BLOCKS
- 2.compiler: GCC compiler
- 3.Langague used: C

### 4.3 Functional Requirements

1. Add new FIR records

Admin should have the ability to add new records. Admin should add various information such as convict's detail

- 2.Search, delete and view record

Admin should be able to search through the records using either name or convict's id. Deletion of records can also be done using convict's id. View of complete records should be provided to the admin.

### 4.4 Non-Functional requirements

- 1.Portability

System running on one platform can be easily converted to run on another platform.

## 2. Reliability

The ability of the system to behave consistently in an acceptable manner when operating within the environment for which the system was intended.

## 3. Availability

The system should be available at all times, meaning the user can access it all the time, only restricted by the down time of the server on which the system runs.

## 4. Security

Secure access of confidential data (convict's information)

## 5. TEST PLAN:

Primarily login is the factor of testing as login is the security check mainly, then we can into various factors such are

1. Add record: The option is to add the convicts details such it has almost all his details required for the police about criminals.
2. Search record: This gives the option to check if details are already there in the record are not.
3. Modify record: This function allows the user to modify the details of the convicts.
4. List record: This function allows the user to view the record.
5. Delete record: This function allows the user to delete specific records by using prisoner name or id.
6. Exit: This function terminates the application.

## 6.TEST CASES

Sl.no	Test case	Test scenario	Test data	Expected output	Actual output
1	Verify the login id entered is valid or not	Login to access records.  Manage the records	Enter valid id  And password	Get access to various managements and options	Get access to various managements and options
2	Add Records	To add convicts record to system	First enter the name it doesn't exist then processes all data of convicts that are needed.	All details with statement record is added	All details with statement record is added
3	Add Records	To add convicts record to system	First enter the name it does exist then processes all data of convicts that are needed.	Details are exists	Details are exists

Sl.no	Test case	Test scenario	Test data	Expected output	Actual output
4	MODIFY RECORD	Change any details which are needed to modify	It will ask details to change and processed to changes	Changed details are shown	Changed details are shown
5	LIST RECORD	To show the details of records	Only case number	Shows all the lists of record	Shows all the lists of record
6	DELETE RECORD	To delete the record which is not valid or not needed	Enter the id number and name.	Data is deleted.	Data is deleted.

## 7.CONCLUSION

Understanding user authentication is crucial because it's a key step in the process that keeps unauthorized users from gaining access to sensitive information. The Police FIR Management System can be able to add record, edit record, view record, delete record and search record of police according to the input given by the admin.