Police Station Management System

A project

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in

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By

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1.INTRODUCTION:

The Police Station Management System is all about getting rid of the lengthy and tiresome processes of managing the first information reports. The system provides a simplified interface where complaints can be filed, case status of a particular case can be updated, and cases can be categorized in terms of their progression. By incorporating case classification and case status monitoring, the system serves to make case management more effective and orderly. Thus, with this approach, police departments can better manage the records of cases, and the access to necessary information will become easier which in turn will promote higher levels of efficiency and responsibility.

The Police Station Management System is a software program designed to improve and optimize the operation of registering First Information Reports (FIRs). There is also an opportunity for police stations to register complaints and manage their progress electronically through the system. FIRs are part of law enforcement work, as they are the essential documents which witness a crime or civil case being reported. This system guarantees that case construction, management and dismissal are all done in a simple systematic manner thus providing accountability to all aspects of the case which eases the workload of people engaged in the manual control of problems.

The system enables the end-users to file FIRs through a simple and intuitive interface by entering some basic information of the complainant as name, telephone number, address, case type and explanation of the case. An FIR is converted into a case automatically or manually and every case sends out a case number as first case serial number to the file. This feature helps avoid the re-filing of a case already registered and to have a comprehensive record of all cases without any discrepancies. This system is not just about being able to file FIRs, but about being able to follow the status of all cases. All cases upon report are tagged ‘pending’ as one or more actions have to be taken in order to move it further. After solving a case, the officer can change the status to solved and enter the date the case was solved. The solution ensures accountability on the part of the stakeholders while also providing a timeline of activities initiated against each case.

This system is also able to determine the type of case being created as one of its features. FIRs can be pending or solved, or be segregated into civil or crime. This system allows the police stations to set the order in which certain investigations should be performed or determine what is trending or how resources should be used. For example, as it is easy to see which cases are pending and need attention.

The system helps maintain relevance with its footage as it allows users to see all the reports attended to covering the details of the complainant, type of the issue, status, what the investigator had to say about the case, and the outcome of the report if there is any. In this way, all the reports are made public so that all the parties are updated as far as the cases are concerned.

2.PROBLEM STATEMENT:

A traditional FIR management method that is applied in police stations is slow, error-prone, and difficult to track. Such issues as double claims, variant information regarding case locations and difficulty in classifying cases according to status or type make it extremely hard to solve cases quickly. There should be a developed, fully automated system designed to file, manage, and track FIRs automatically and virtually without any mistakes, ensuring the very clear and unambiguous handling of cases.

3.CODE:

```
from datetime import datetime
class FIR:
    def _init_(self, case_id, complainant_name, complainant_phone, complainant_address, case_type, description):
        self.case_id = case_id
        self.complainant_name = complainant_name
        self.complainant_phone = complainant_phone
        self.complainant_address = complainant_address
        self.case_type = case_type
        self.description = description
        self.status = 'pending'
        self.close_date = None
    def close_case(self):
        self.status = 'solved'
        self.close_date = datetime.now().strftime('%Y-%m-%d')
class PoliceStationManagement:
    def _init_(self):
        self.fir_records = []
        self.next_case_id = 1
    def file_fir(self):
        complainant_name = input("Enter Complainant Name: ").strip()
        complainant_phone = input("Enter Complainant Phone Number: ").strip()
        complainant_address = input("Enter Complainant Address: ").strip()
        case_type = input("Enter Case Type (civil/crime): ").strip()
        description = input("Enter Case Description: ").strip()
        if not complainant_name or not complainant_phone or not complainant_address or not case_type or not description:
            print("All fields are required. FIR not filed.")
            return
```

```
        for fir in self.fir_records:
            if fir.complainant_name == complainant_name and fir.complainant_phone == complainant_phone and fir.complainant_address == complainant_address and fir.case_type == case_type and fir.description == description:
                print("A similar case already exists. FIR not filed.")
                return
        fir = FIR(self.next_case_id, complainant_name, complainant_phone, complainant_address, case_type, description)
        self.fir_records.append(fir)
        print(f"FIR filed successfully: Case ID {self.next_case_id}")
        self.next_case_id += 1
    def close_case(self):
        try:
            case_id = int(input("Enter Case ID to close: "))
        except ValueError:
            print("Invalid Case ID. Please enter a numeric value.")
            return
        for fir in self.fir_records:
            if fir.case_id == case_id:
                if fir.status == 'pending':
                    fir.close_case()
                    print(f"Case ID {case_id} closed successfully on {fir.close_date}.")
                else:
                    print(f"Case ID {case_id} is already solved.")
                return
        print(f"Case ID {case_id} not found.")
    def classify_pending_cases(self):
        pending_cases = [fir for fir in self.fir_records if fir.status == 'pending']
        return pending_cases
    def classify_solved_cases(self):
        solved_cases = [fir for fir in self.fir_records if fir.status == 'solved']
```

```
        return solved_cases
    def display_cases(self, cases):
        if not cases:
            print("No cases to display.")
            return
        for fir in cases:
            close_date = fir.close_date if fir.close_date else "N/A"
            print(f"Case ID: {fir.case_id}, Complainant Name: {fir.complainant_name}, Phone: {fir.complainant_phone}, Address: {fir.complainant_address}, Type: {fir.case_type}, Status: {fir.status}, Close Date: {close_date}, Description: {fir.description}")
station = PoliceStationManagement()
while True:
    print("\nPolice Station Management System")
    print("1. File FIR")
    print("2. Close Case")
    print("3. View Pending Cases")
    print("4. View Solved Cases")
    print("5. Exit")
    choice = input("Enter your choice: ")
    if choice == '1':
        station.file_fir()
    elif choice == '2':
        station.close_case()
    elif choice == '3':
        print("\nView Pending Cases:")
        case_type = input("Enter Case Type to filter (civil/crime): ").strip()
        if case_type in ['civil', 'crime']:
            filtered_cases = [case for case in station.classify_pending_cases() if case.case_type == case_type]
            station.display_cases(filtered_cases)
        else:
```

```
            print("Invalid Case Type. Please choose 'civil' or 'crime'.")
        elif choice == '4':
            print("\nView Solved Cases:")
            case_type = input("Enter Case Type to filter (civil/crime): ").strip()
            if case_type in ['civil', 'crime']:
                filtered_cases = [case for case in station.classify_solved_cases() if case.case_type == case_type]
                station.display_cases(filtered_cases)
            else:
                print("Invalid Case Type. Please choose 'civil' or 'crime'.")
        elif choice == '5':
            print("Exiting... Goodbye!")
            break
        else:
            print("Invalid choice. Please try again.")
```

4.OUTPUT:

```
Police Station Management System
1. File FIR
2. Close Case
3. View Pending Cases
4. View Solved Cases
5. Exit
Enter your choice: 1
Enter Complainant Name: sudhakar
Enter Complainant Phone Number: 8519829929
Enter Complainant Address: 11-18-188,girmajipet,warangal
Enter Case Type (civil/crime): crime
Enter Case Description: yesterday night a man murdered sudhakars son
FIR filed successfully: Case ID 1
```

```
Enter your choice: 2
Enter Case ID to close: 1
Case ID 1 closed successfully on 2024-12-27.
```

```
Police Station Management System
1. File FIR
2. Close Case
3. View Pending Cases
4. View Solved Cases
5. Exit
Enter your choice: 3

View Pending Cases:
Enter Case Type to filter (civil/crime): crime
Case ID: 1, Complainant Name: sudhakar, Phone: 8519829929, Address: 11-18-188,girmajipet,warangal, Type: crime, Status: pending, Close Date: N/
A, Description: yesterday a man murdered sudhakars son
```

```
Enter your choice: 4

View Solved Cases:
Enter Case Type to filter (civil/crime): crime
No cases to display.
```

```
Enter your choice: 5
Exiting... Goodbye!
```

5.CONCLUSION:

In conclusion, the Police Station Management System provides an efficient solution to the challenges faced in traditional FIR management. By automating the process of filing, tracking, and classifying cases, it ensures better organization, accuracy, and transparency. This system not only reduces errors and duplication but also streamlines case resolution, improving the overall efficiency of law enforcement operations. With its user-friendly interface and systematic approach, the system is a valuable tool for modernizing police station workflows and enhancing service delivery to the community.