ADVANCED PROGRAMMING

PROJECT - REPORT

PROJECT TITLE – POLICE STATION MANAGEMENT SYSTEM

GROUP NO. – 20

GROUP MEMBERS

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Method Description

Person Class

• int enterInPersonTable()

To store details of person in person table and will return the allotted personID.

• Person getPersonDetails(int personID)

To get details of person having given personID.

• boolean checkDuplicates(String aadharCardNumber)

To check if person with given aadharCardNumber exists or not in person table.

• int getPersonIDthroughAadhar(String aadhar)

To get the personID of person having given aadhar card number.

• void updateRecord(int id, String name, String contact, String aadharCardNumber)

To update details of person in person table having given id.

• void markAsSuspect(int crimeID, int personID)

To store given personID as suspect of particular crime in Suspects table.

void markAsWitness(int crimeID, int personID)

To store given personID as witness of particular crime in witness table.

• void markAsVictim(int crimeID, int personID)

To store given personID as victim of particular crime in victims table.

• ResultSet getSuspects(int crimeID)

To get all suspects of particular crime having given crimeID.

• ResultSet getWitness(int crimeID)

To get all witnesses of particular crime having given crimeID.

• ResultSet getVictims(int crimeID)

To get all victims of particular crime having given crimeID.

• int getCriminalRecord(String aadhar)

To get crimeID of the criminal having given aadhar number

• boolean checkCriminalRecord(String aadhar)

To check if person having given aadhar number is criminal or not.

• int enterInPrisonerRecord(int personID, int crimeID)

To store pesonID and crimeID of crime in PrisonerRecord table.

• int checkPrisonerRecord(String aadhar)

To get crimeID of the prisoner having given aadhar number.

• int enterInCriminalRecord(int personID, int crimeID)

To store pesonID and crimeID of crime in CriminalRecord table.

Complaint Class

• boolean checkAuthenticity(int complaintID, int password)

To check the login credentials of complaint.

• void changeCaseStatus(int complaintID,String Status)

To change the status of case to Closed/Active and if Closed is chosen it will also update the cases Involved of police officer involved.

• int updateInComplaintTable()

To store the details in complaint table in database will return it complaintID allotted by SQL Server(complaintID is set to auto-updated).

• ResultSet getAllotedComplaint(int policeID)

To get all the cases allotted to police having given policeID.

ResultSet getAndAllotComplaint()

To get all the cases which is not allotted to police.

• String getComplaintStatus(int complaintID)

To get the Status of complaint having given complaintID.

• int getComplainantID(int complaintID)

To get the complainantID of complaint having given complaintID.

• int getCrimeID(int complaintID)

To get CrimeID of the complaint having given complaintID.

• void assignPolice(int complaintID, int policeID)

To allot police having given policeID to complaint having given complaintID.

Police Class

void entryInPoliceTable()

To update details of police in Police Table of PoliceStation Database.

• int getFreePoliceID()

To get the PoliceID of police involved in least number of cases.

int getID()

To get the PoliceID of just updated record in Police Table.

• ResultSet searchByCity(String checkcity)

To get details of all police in given city.

• ResultSet searchByName(String checkname)

To get details of all police having given Name.

Police searchByID(int id)

To get details of police having given policeID.

• boolean checkLogin(int id, String pass)

To check Login Credentials of Police.

• void updateRecord(int id, String name, String city, String residence, String contact, int casesInvolved)

To update the details of police in police table having given policeID.

• void deleteRecord(int id)

To delete record of police having given policeID from police table.

CreateTable Class

• String USER = "";

To store the username of mysql of program user device.

• **String PASS = ""**;

To store the password of mysql of program user device.

void createAllTables()

To create database and tables if not already created, it will check first that if database exists already if not then create them.

Crime Class

• int updateCrimeTable()

To store details of crime in crime table.

• Crime getCrimeDetails(int crimeID)

To get details of crime from crime table having given crimeID.

• void updateDetailsOfCrimeTable(int crimeID,String desc,String loc,String extra)

To update details of crime from crime table having given crimeID will also update the details of crime-specific tables.

• void deleteCrime(int crimeID)

To delete the Crime details from crime table ,crime-specific table, victims, witness, suspects having given crimeID .

Next 4 classes have is – a relationship with crime class (For less complexity we are using only one extra crime specific details can be easily increased)

Kidnap Class

void updateInKidnapTable()

To store kidnap – specific details in kidnap table.

• String getKidnapDetails(int crimeID)

To get kidnap – specific details from kidnap table having given crimeID.

RoadAccident Class

void updateInRoadAccidentTable()

To store RoadAccident – specific details in RoadAccident table.

• String getRoadAccidentDetails(int crimeID)

To get RoadAccident- specific details from RoadAccident table having given crimeID.

Murder Class

• void updateInMurderTable()

To store Murder – specific details in Murder table.

• String getMurderDetails(int crimeID)

To get Murder – specific details from Murder table having given crimeID.

Robbery Class

• void updateInOtherCrimeTable()

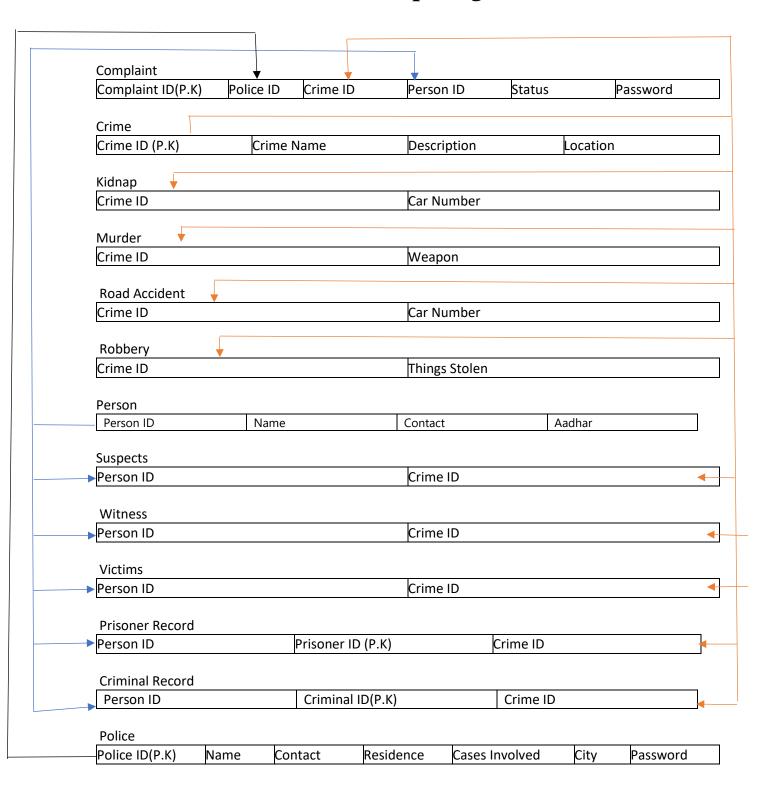
To store Robbery – specific details in Robbery table.

• String getRobberyDetails(int crimeID)

To get Robbery – specific details from Robbery table having given crimeID.

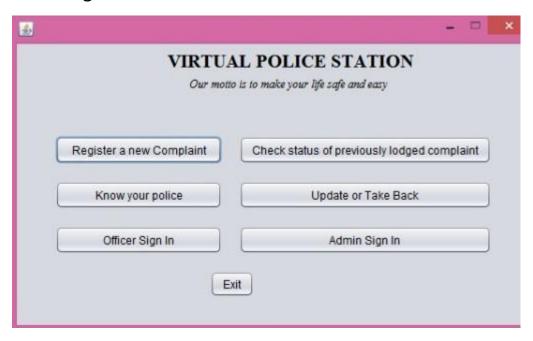
Relationship diagram (next page)

Relationship Diagram

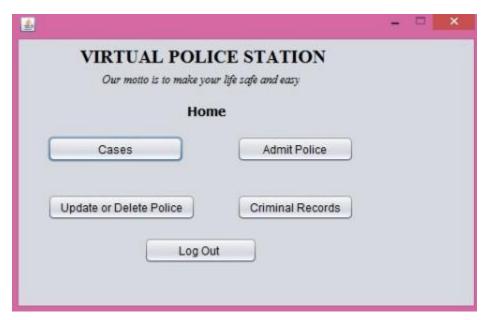


Project-Execution Samples(Screenshot)

Main Page



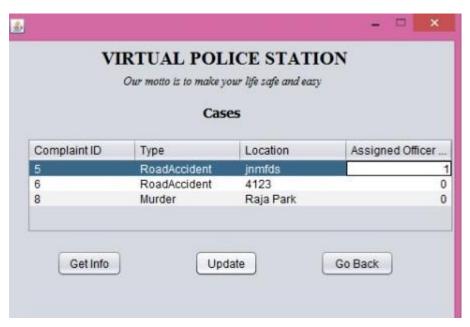
Admin login page



Admin Sign up



Assign Officers to case



Cannot take back complaint(as complaint as already active or closed if not then it will be taken back)



Check Complaint Status



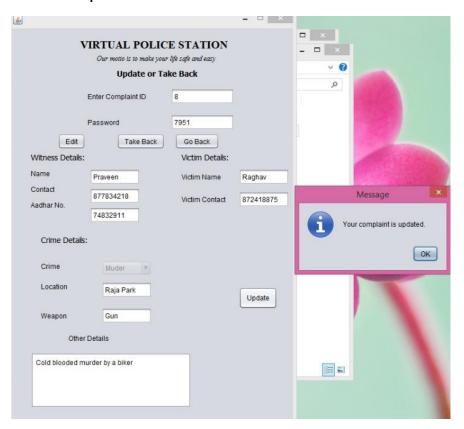
Criminal Records Page



Delete Police Record



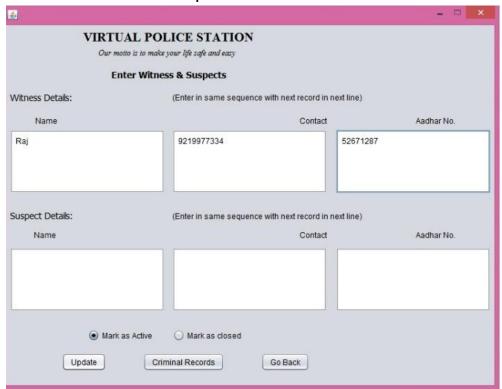
Edit Complaint



Enter Criminal Details



Enter witness and Suspects



Get information about police by name





Information of police when record is not inserted

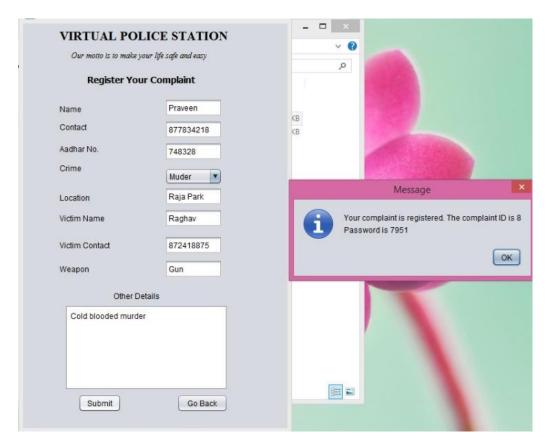


New Police Registeration



Officer sign-in





Search Criminal Records



View Cases



Update case when wrong credentials given



Enter Witness and Suspects



Update cases



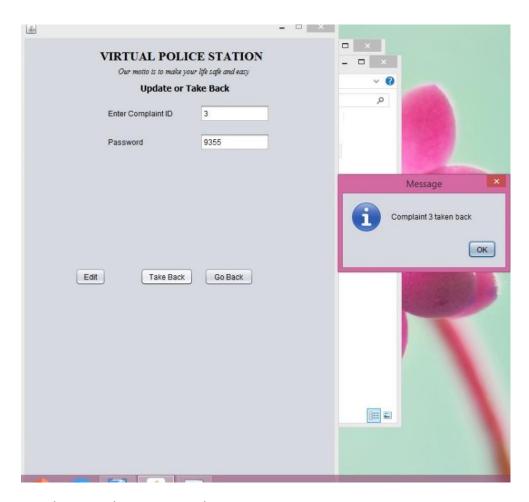
Update criminal as a prisoner



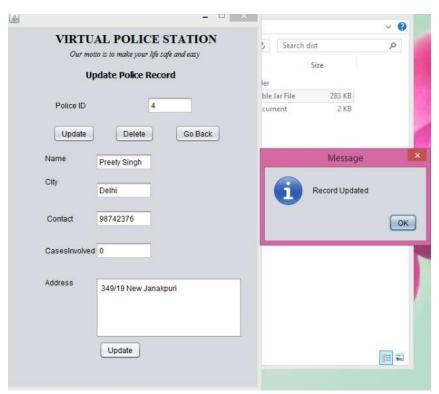
Update information



Take back complaint



Update Police Records



View Cases

