



Digitization and Tracking of Theft Vehicles

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Abstract:

Adigitization and tracking of theft vehicles is an automated system developing for the use of police members as well as complainant because manual handling of the record is time consuming. Here, we trying to automate the process of day to day activities like records of theft vehicles which are in police records, even complainants can easily go through their complaint status

Keywords: Visual studio 2015, MYSQL, .Net Framework 4.5

1. INTRODUCTION

Adigitization and tracking of theft vehicles is an automated system developing for the use of police members as well as complainant because manual handling of the record is time consuming. Here, we trying to automate the process of day to day activities like records of theft vehicles which are in police records, even complainants can easily go through their complaint status. The manual handling of the record is time consuming and highly prone to error. The purpose of this project is to automate the process of day to day activities like records of theft vehicles which are in police records, Daily updates and Modification by the administrator. All these tasks can be performed by anyone without being in the same office of the executive with the technological advanced made today. But there is no appropriate system to streamline the processes involved and allow seamless between the executive and the assistant even though they are on two different continents.

2. LITERATURE SURVEY EXISISTING SYSTEM

Currently when a vehicle is stolen, owner of the vehicle should approach the limits of police station where the vehicle is stolen and they have to file a FIR regarding the stolen vehicle in detail which is maintained manually using ledgers. After this process a manually written acknowledgement will be issued to the owner (complainant) for further process. Now, the owner has to keep on visiting the police station to know the status of his filed FIR. This process is very time consuming and frustrating. Luckily, if the vehicle is found within a year then quite easy but if it takes more than 3 to 5 years then it's difficult to maintain the ledger information because it is a manual process.

PROPOSED METHODOLOGY: The following Vehicle Tracking System is having mainly five modules, as per data collection some more sub-modules may be added later.

Administrator
 Police Personals
 Complainant
 RTO
 Visitor

In this my modules are POLICE PERSONALS and VISITOR.

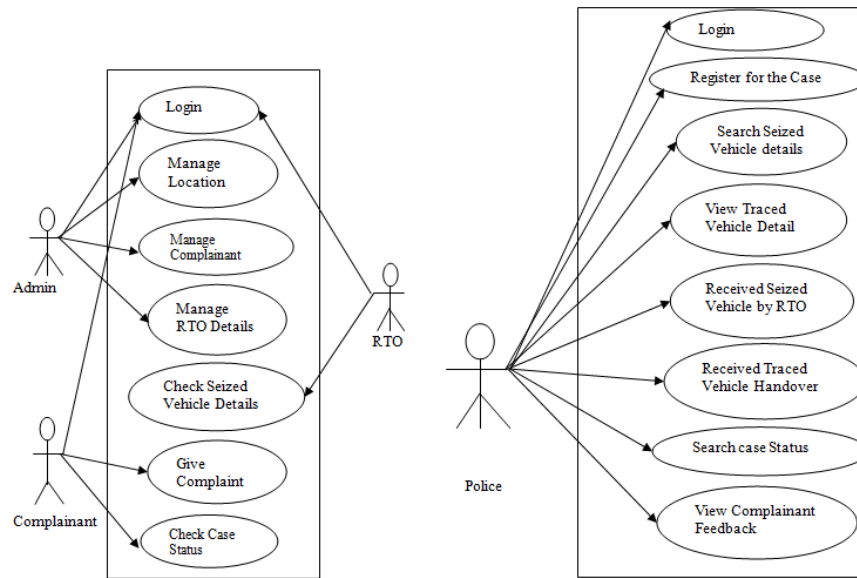
- The role of police personal is to lodge the complaint against the theft/stolen vehicles and to generate the username and password to the complainants and also sending request to Admin to update the records of theft vehicle.
- After lodging complaint FIR will not be processed for 3 days because vehicle may be hidden by the owner friends for make of fun or it can be taken by other unknown persons unknowingly like Hero Honda keys can unlock other same Hero Honda vehicle or vehicle May be parked in No parking area and it will be seized by traffic Police personals. Hence, all such details should be conformed before for further process of FIR. After all such conformation FIR will be lodge completely (processed).
- Police personals drop a mail to the RTO to get the owner information like address so on and vehicle information too. Even they have to enquire other traffic police limits if vehicle is seized anywhere in No parking area on the base of theft/stolen vehicle registration number along with the chassis number.
- Police personals view FIR list, if vehicle is found in other district or vehicle is found in other police stations (information will be circulated among all state police stations) so the vehicle information should be conformed FIR list.
- Traced vehicle details will be holding the information of traced vehicle along with its FIR details.
- Police personals also take the feedback from complainants like complainant can give any hint of his suspect which makes to investigate case.
- Case status, it holds the information till where the case has been investigated, where complainant can view his current case status.

Traced vehicle will be handover to the related owner after relies notice from the court and it will be updated.

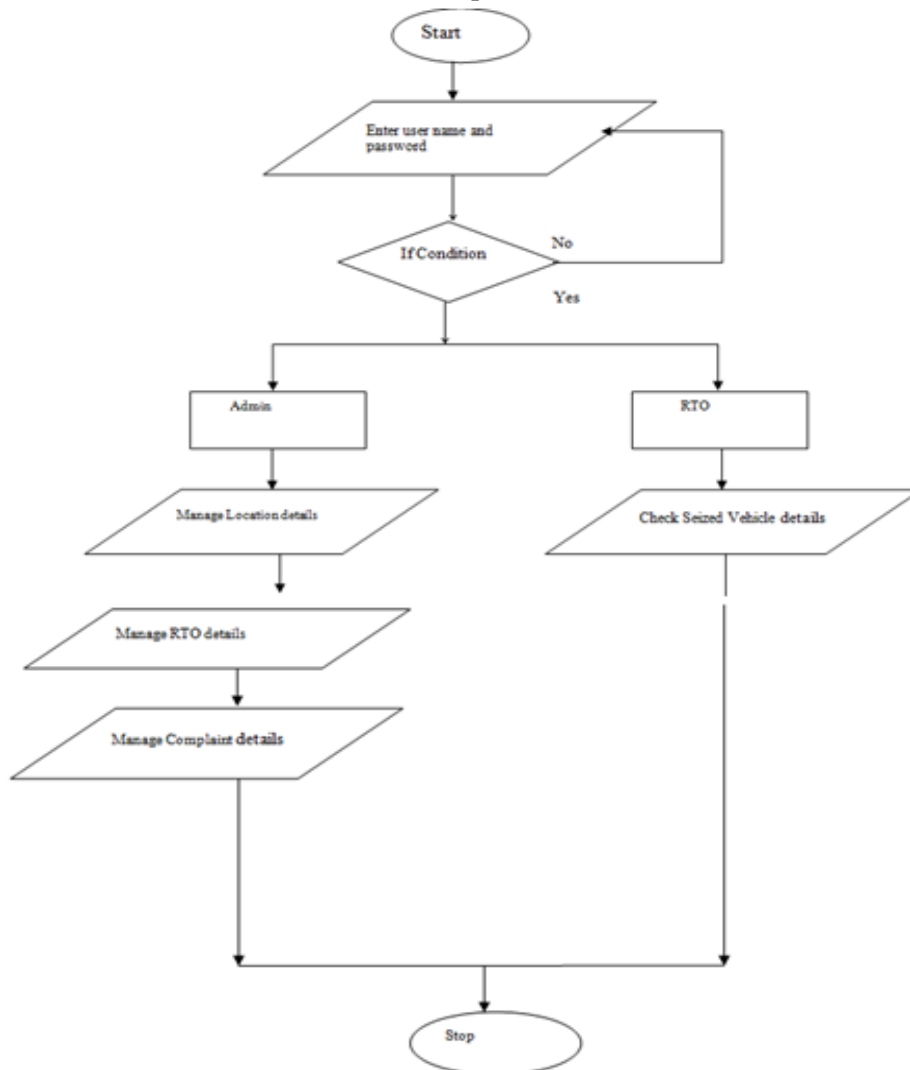
- Police personals also view the visitor's information i.e., general public. It also helps the public peoples to purchase second handled vehicles. Public people can investigate the buying vehicle is theft or what? By getting the chassis no or

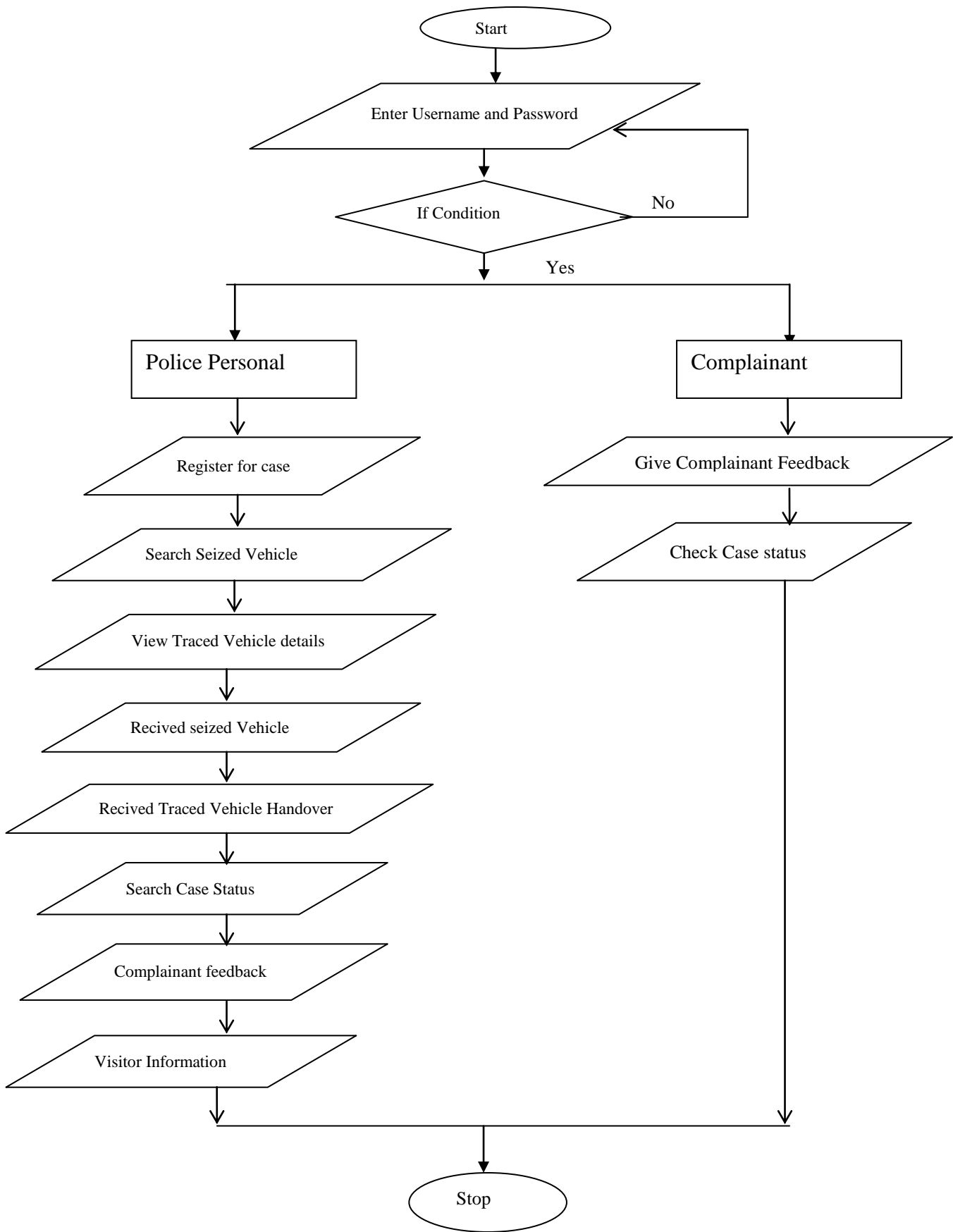
registration no into the application. If they come to find that it is a theft vehicle then they can drop a feedback later on which is noticed by police personals.

Use Case Diagram



Flow of Implementation





3. CONCLUSION: The implementation of Vehicle theft detection with high level authentication is done successfully. The system can further be improved with speed control

mechanism, that is, to stop the engine if the speed exceeds certain limits. The system can further be improved for providing

parental guidance that is to stop the vehicle if it crosses a certain range of distance.

4. FUTURE ENHANCEMENTS

In future, this anti theft system for cars will be enhanced to function as an integrated-data-security system for car communication systems. These GSM and GPS tracking system for cars project significantly reduce the time, manpower and operates without interference of humanoid. In the modern world, there are various new technologies like GPS, GSM, RFID, Biometric Recognition. Mobile communication has been integrated into the vehicles for security purpose. In these projects GPS technology is used to find the exact location of the vehicle and GSM is used to send the message to the owner of the vehicle. At once if the vehicle seems to be theft, the owner just has to send an SMS to that vehicle, that means a vehicle will be stopped all the doors will be closed then the theft will be locked in the car

5. REFERENCE

- [1]. Co-founder Michael, “Database management system using MYSQL”.
- [2] Paul C Jagerson, “Software Testing”, Craftsmen’s Edition, 2007

[3] Elsmari& Navaathe, ”Fundamentals of Database Systems” - 3rd Edition, Pearson Education Press.

[4] Michael R Blaha, James R Rumbaugh, “Object Oriented Modeling and Design with UML”, 2nd edition, Person Education, 2005.

[5]. Andrew Troelsen,” Pro C# 5.0 and .NET 4.5 Framework”.

[6]. William Penberthy, “Beginning ASP.NET for visual Studio 2015”.

[7]. “ASP.NET MVC3 Overview, Dependency Injection Improvements” on ASP.NET.

[8]. “Testing the User Interface with Automated UI Tests: on MSDN.

Websites

- [9]. www.VehicleTracking System.in
- [10]. www.uml.diagram.org
- [11]. www.umldesigner.org
- [12]. www.gpstracking.in

6. SANP SHOTS

