



Design of Anti-Theft and Tracking System for Vehicle Protection by Biometric Authentication

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ABSTRACT

This paper displays a framework that adequately and proficiently gives an utilization of biometric validation in vehicle security. In biometric validation based vehicle insurance and following framework, the biometric verification assumes a significant job to give high security to the vehicles. The principle point of this task is to shield the vehicle from unapproved individuals by utilizing the one of a kind id that is unique mark validation and face acknowledgment. The proposed framework incorporates two security modules one is to give security to the entryways and another is to give security to start. The unique mark scanner is set to open the entryways and the face location framework is utilized to enact the start of vehicle. So in this framework just approved people who enrolled their unique mark and face picture in the framework can get to the vehicle. Additionally The GPS module is utilized to follow the vehicle and to get the continuous area of vehicle. The continuous area of vehicle is send to the client as URL connects by utilizing SMS.

Keywords- *Fingerprint Module, Raspberry Pi 3, Web camera, GPS (Global Positioning System) and Relay*

I. INTRODUCTION

In recent years, vehicle robberies are expanding at a disturbing rate far and wide. Individuals have begun to utilize the robbery control frameworks introduced in their vehicles. So in this framework we are endeavoring to improve the security highlights of the vehicle. The utilization of biometric based frameworks has seen an exponential development. This is a direct result of colossal advancement in this field making it conceivable to cut down their costs. Biometrics is turning into another best in class technique for security frameworks. Biometrics are utilized to give tied down access to real working frameworks like ATM, mobile phones, vehicles, workstations, workplaces, and different things that need approved access. Biometric have rolled out huge improvements in security frameworks making them more secure than previously, effective and shabby. Not at all like different methods which utilize passwords and numbers, that are should have been recollected, biometric procedures utilize human body parts like fingerprints, face or even iris of your eyes and as we realize that these things are exceptional to all, consequently it makes biometric frameworks the best over others. In our venture unique finger impression check is utilized, where we can contrast the unique finger impression of the driver and the predefined finger impression. In the event that the unique mark of the driver does not coordinate with the put away finger impression of the proprietor of vehicle then the entryways of vehicle not opened and the proprietor of vehicle gets message as unapproved individual attempting to open the entryways of vehicle. The face location strategy is utilized to initiate the start of vehicle. In the event that the essence of driver coordinated with the put away picture, at that point start will enact generally proprietor will gets the picture of cheat. Additionally the following of vehicle should be possible by utilizing GPS. We can get the accurate area of vehicle utilizing GPS framework. The location of the area of our vehicle is sent as URL interface.

II. LITERATURE REVIEW

In structure and improvement of a GSM based vehicle burglary control framework for a car which is being utilized to counteract/control the robbery of a vehicle. The created framework utilizes an installed framework dependent on GSM innovation. The planned and created framework is introduced in the vehicle. An interfacing portable is likewise associated with the microcontroller, which is thus, associated with the motor. Once, the vehicle is being stolen, the data is being utilized by the vehicle proprietor for further preparing. The data is passed onto the focal preparing protection framework, where by