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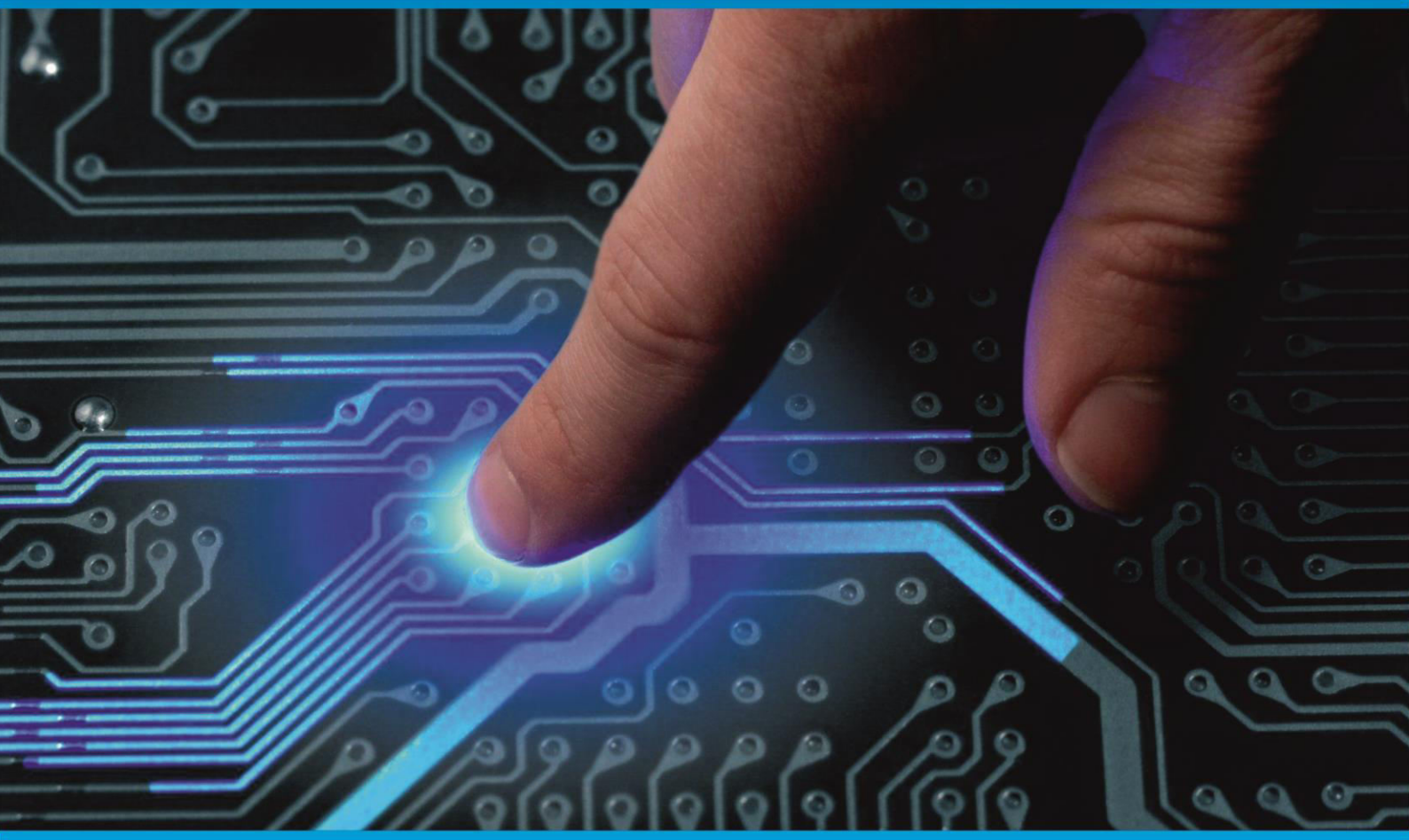

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Fake Driver Avoider

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ABSTRACT: A driving license is an official document that authorizes its holder to operate various types of motor vehicles on all kind of roads to which the public have access. By this project we allow the people who have a valid driving license to drive the vehicle. This method surely increases the safety standard of the **RTO**(Regional Transport Authorities/Offices).

I. INTRODUCTION

The FAKE DRIVER AVOIDER consists of an android app and electronic device.Android app is used to verify the user driving license and physical present of the user through fingerprint scanner. Electronic devices are installed in vehicles. The main components of the electronic device are Arduinoand **Bluetooth Module.Arduino** is an open-source electronics platform based on easy-to-use hardware and software. **Arduino** boards are able to read inputs - light on a sensor, a finger on a button and turn it into an output - activating a motor, turning on an LED. **Bluetooth Module** is an easy to use**Bluetooth** SPP (Serial Port Protocol) **module**, designed for transparent wireless serial connection setup. **HC-05 Bluetooth module** provides switching mode between master and slave mode which means it is able to use neither receiving nor transmitting data. Nowadays most of the children drive motor vehicles and make accidents. This project will give the solution for these types of problems.Daily many people are driving without license and many cases are being registered on them.This project will give a solution for this type of problem and it will help the Government and traffic police to check the driving license and reduce the cases.

II. EXISTING SYSTEM

Previously there were a lot of projects available to control the vehicle through mobile app.they provide some features like Turn ON,OFF and headlight ON,OFF and GPS Tracker.Android).Fake Driver Avoider have a specification like Fingerprint Scanning and Password verification. driving a vehicle without a license is illegal so it only allows the people who have a valid license to drive.

III. PROPOSED SYSTEM

Initially the electronic device should be fixed in the vehicle.That device is fully controlled by a mobile app. The Android app totally has five activities are given below.We need to install the app in user mobile and install the electronic device in the vehicle. Login activity is used to indicate the user to login. In the next activity app get the License ID and verify it. If the ID is verified Successfully then the app takes the user to the next activity other it shows error as 'INVALID LICENSE ID'. Next activity is fingerprint scanning. It is used to verify the physical presentation of the user. In case the fingerprint is not matched it shows the error message. Next activity is Bluetooth connection. It lets the user pair the android phone with an electronic device.After successful pairing app shows two buttons (Engine start & Engine Stop). The electronic device turns ON the vehicle when the all verification is done on an android app. Otherwise the user is not able to start a vehicle.

Login - Initially there will be a login button when the user clicks the button it allows the user to login

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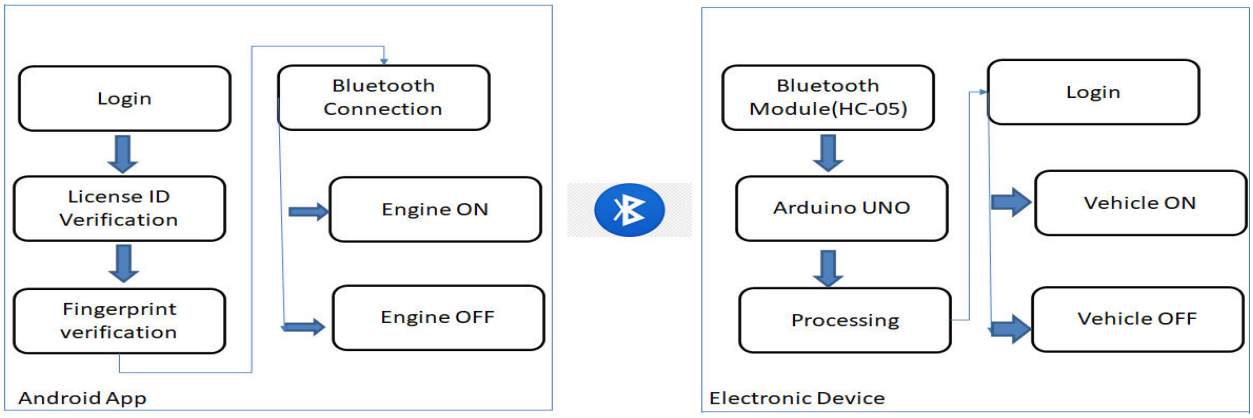
User ID verification– Get the user driving license ID and verify it. if it is verified successfully then it allows the user to the next verification otherwise it shows the error as invalid license ID and it didn't allow the user to the next verification

Fingerprint verification– After the successful verification of license ID then it asks users for a fingerprint to check whether the user is physically present or not. If the fingerprint is matched then allows the user to the next activity. In case the fingerprint is not matched it shows an error message and also it didn't allow the user to the next activity.

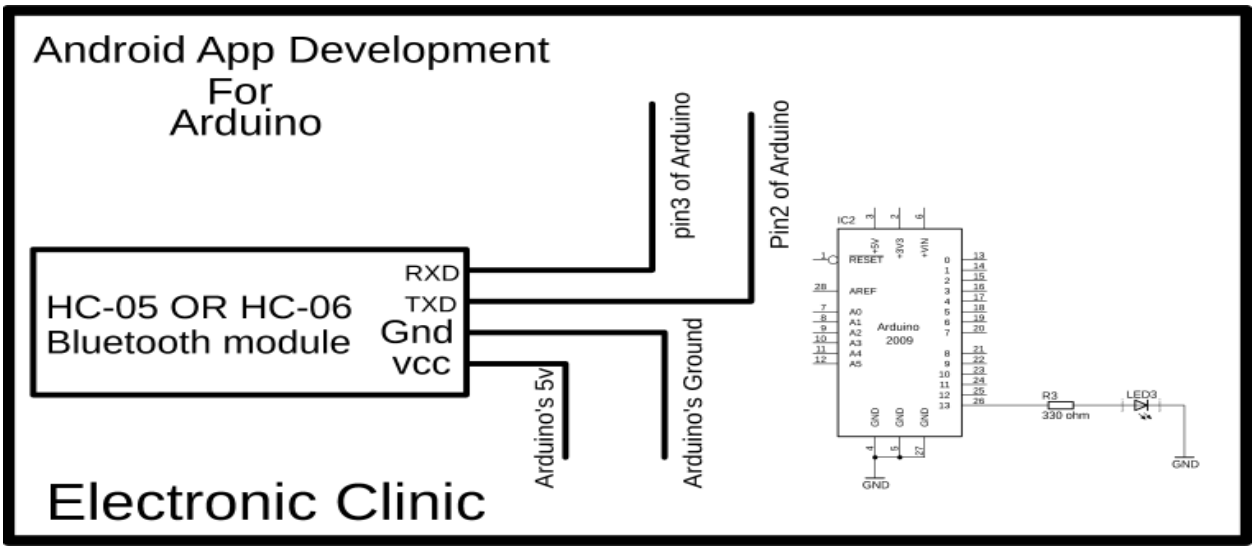
Bluetooth connectivity– After the successful verification of license ID and fingerprint scanning and ask the user to connect with the Bluetooth device

Vehicle turn ON & OF– Successfully connected with the android and electronic device. It shows two options (ON and OFF). when the user clicks the ON button the android application will send the signal as "1" through the Bluetooth then the signal reaches the Arduino. Arduino turns ON the vehicle when the input signal is "1".In case the input signal is "0" it will turn OFF the vehicle.

Block Diagram:



Circuit Diagram:



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IV. PERFORMANCE EVALUATION

Provide complete avoidance of child driving and allows only the user who have a valid driving license.Now a days most of the accidents happen because of driving the vehicles without passing any proper driving test conducted by RTO(Regional Transport Officer).This will improve the road safety standard.The Fake Driver Avoider project is combination of android app and electronic device. Android app used to verify a valid user and the electronic device is used to control the ON and OFF state of the vehicle.The driving license verification is done on android device by implementing the following activities on android app.

V. CONCLUSION

Daily many driving without license cases are registered, It will give a solution for this type of problems.And Government don't need any traffic police to check the driving license to the drivers.Our project will give a complete solution for this problem and it will help the Government and traffic police to check the driving license and reduce the cases and no more road accidents by child driving.

VI. FUTURE ENHANCEMENT

Road accidents involving drivers without a valid driving license increased from 37,585 in 2018 to 44,358 in 2019 an increase of 18%.Under the new traffic rules, **driving without licence** can lead to a fine of ₹5,000, if the vehicle permit is missing you can be charged upto ₹10,000 and **driving without** insurance is fined at ₹2,000. when this was implemented then this problem no more. Fake Driver Avoider never give a child a chance to drive when this project was implemented.

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