**Analysis of Safety and Security of private establishments.**

**Introduction**

In today’s world of evolving technology security is of utmost concern. A sensible and proportionate approach to ensure a healthy and safe place for all who use them, including the school workforce, visitors and students in a school for school premises are a valuable resource for local communities and are increasingly being used for extended services. A highly complex and unique organizations that operate with an urgent imperative: educate and prepare all children and youth to achieve their highest potential and contribute to society, no matter their socioeconomic background or geographic location are considering as educational institutes. All of our schools meet these goals by creating safe, orderly, warm, and inviting school environments. A multitier system of support through collaboration in order to create this type of environment, schools must work towards integrating services (academic, behavioral, social, emotional, and mental health) with the help of this system [1].

The traditional way of entering your private vehicle through a private school is having vehicle pass. Wherein an employee needs to process that vehicle pass to avail a parking slot. “No vehicle pass no entry”. The policy aims to strengthen the security measure of a private establishment and secure the safety of the people inside it. The possibility of creating fake passes to enter the establishments might risk the lives of the people inside the establishments.

As technology evolving at a faster rate the researchers of this study propose a possible solution that both benefits the ecosystem and the end user wherein it will create the traditional way of vehicle passes into paperless transaction. It might improve the security of the establishments will helping the environment.

**REVIEW OF RELATED LITERATURE**

Prashengit Dhar et. al (2018) developed an automated LPR

program to support ITS for the identification of Bangladeshi

license plates. This work plate shows clearly white

background with black fonts. Prewitt operators performed the

detection of the number plate to segment the edges.

Morphological dilation was performed to accentuate the

points. Eventually, deep CNN was used to accomplish the

reconnaissance job. In character classification, the protocol

showed a strong precision rate of 99.6 percent.

S. Du, M. Shehata, W. Badawy [2] Describe a

comprehensive survey on existing (Automatic License Plate

Recognition) ALPR Techniques by categorizing them according

to the features used in each stage. Comparisons of them in the

terms of Pros, Cons, Recognition results, & Processing speeds

were addressed. A future forecast for ALPR was also given at the

end. The future research of ALPR should concentrate on

multistyle plate recognition, video-based ALPR using temporal

information, multiplates processing, high definition plate image

processing, ambiguous-character recognition.

**STATEMENT OF THE PROBLEM**

In this proposed research, the proponents aim to answer the following questions:

1. How to improve the vehicle passes without using stickers?
2. How to improve traditional way of checking vehicle passes into more secured, reliable and while helping the environment?
3. How to determine unauthorized vehicles from preventing to enter the premises?

**PROJECT SCOPE AND ITS SIGNIFICANCE**

The research involves all types of vehicle going in and out of the school premises. Vehicle pass will be classified as Visitor or Employee. A survey with the security group of the school will be conducted to investigate the problems that had occurred in their daily monitoring of vehicle pass.

## **Definition of Terms**

* **Plate number** - A vehicle registration plate, also known as a number plate or license plate, is a metal or plastic plate attached to a motor vehicle or trailer for official identification purposes
* **Vehicle** - A vehicle is a machine that transports people or cargo. Vehicles include wagons, bicycles, motor vehicles, railed vehicles, watercraft, amphibious vehicles, aircraft and spacecraft

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