

# QR Based License Detector

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Saadia Mumraiz (FA19-MCS-019)

Mariyam Arif (FA19-MCS-023)

Supervised by: Sir Najam Dar

Department of Computer Science

## Introduction

As population increases, the number of vehicles is also increasing. Checking the license of each vehicles to see if it is fake or not? Checking the license and documents of every driver is very time consuming and difficult task for traffic police. On the other hand, it is also very difficult for the drivers to have all the documents along with them. To solve this problem, we propose an android based application “**License Detection using QR Code**”. Using this application, the traffic police scan the QR code and it will show all data of the driver and scan a monogram to check whether the license is fake or valid. In this way, the detection of the license become easy for the traffic police and the drivers doesn’t even have to take all the documents with them. It saves time and easily be managed by traffic police and drivers



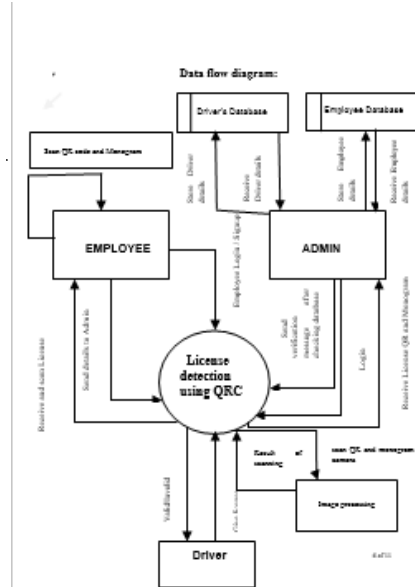
## Background

A QR code (abbreviated from Quick Response code) is a type of matrix barcode (or two-dimensional barcode<sup>[1]</sup>) invented in 1994 by the Japanese automotive company Denso Wave.<sup>[2]</sup> A barcode is a machine-readable optical label that contains information about the item to which it is attached. In practice, QR codes often contain data for a locator, identifier, or tracker that points to a website or application. A QR code uses four standardized encoding modes (numeric, alphanumeric, byte/binary, and kanji) to store data efficiently; extensions may also be used

## Motivations

It is very difficult for the drivers to carry all the physical documents along with them also it is time consuming task for the traffic police to check all the license and their validity. Drivers do not need to carry all the documents along with them. Also, the fake license will be detected easily.

## Architecture



## Objectives

- Our goal of this project for traffic police is to find out authorized users and detect those having fake license. We Also wanted to give relief to the drivers, that they do not need to carry their document all the time.
- The main intention of developing this application is to avoid magnetic card readers for detection.
- Our Objective behind this effort is to get rid of extra devices for scanning and verifying license. All these tasks could be done by this application.

## Conclusion

From this system we can conclude that scanning the QR code for obtaining details will be faster than reading from a smart chip. With this system we can also conclude that there is no need of special device.

We can update the system by adding new features such as vehicle registration, viewing challan history and we can design the system as desired with the help of technologies available. Security of the system can be increased.

## Future Work

1. The requirements of users keep on changing as the system is being used so there is always a possibility to add new features. Some of the future improvements are as follows: We can update the system by adding new things such as vehicles verification and registration.
2. We can integrate the system by NIC (National identity card) for more security.

## References

- [1] Ihekweaba Chukwugoziem, Aru Okereke Eze, E. Chiaghana Chukwunonso, International Journal of scientific and engineering research ISJER, A Quick Response (QR) code generator with mobile scan application for mobile network recharge options, 10, ( 2019).
- [2] S.R. Bharamagoudar, R.B. Geeta, S.G. Totad, Journal at International journal of advanced research in computer and Communication engineering “Web based student information management system” 2 (2013).