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Green Software Solutions.

NSBM-Plymouth university-22.2

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Digitalizing Driver’s License & Insurance Documents.

Project Proposal.

# Introduction.

With the shortage of materials to print driving licenses which has exacerbated by the forex crisis due the downfall of the local currency since the pandemic period due to the sudden spread of the covid virus disease the government has issued a temporary license to the new permitted drivers until they get the driver’s license card. As a solution for this problem, we have come up with a digitalized version of the driver’s license with the current QR code technology as well as an extra feature we decided to add the insurance permit to the same application with the same strategy as the digitalized driver’s license with the QR code technology. The digitalized insurance feature comes up with the ability to renew the insurance with the in-built payment system via an online payment method. The way this application works is very basic that every person could understand. The application consists of two different login personals. First one is the driver’s login and the latter one is the officer’s login. The driver’s user interface after the login consists of the QRs of the driver’s license and the insurance permit and the officer’s user interface consists of a simple QR code scanner which has the capability to the scan the driver’s QR codes and display the relevant documents in the officer’s smart phone. This application could login to several driver’s and Officer’s accounts simultaneously with a security feature as a password protection to the relevant account of the relevant user.

# Objectives Of The Application.

* Digitalizing the driver’s license – By digitalizing the driver’s license via a QR code the cost of materials needed for printing will be saved as well the driver will have the opportunity to present the license without being forgetting the documents. And this method is very time saving.
* Digitalizing the insurance permit – With the same benefits as the digitalization of the driver’s license this feature comes up with the built-in insurance renewing system via an online payment method. With this way the resource wasting traditional methods are minimized.
* Built-in officer’s QR code scanner – The officer can scan the QR code via the same application and check the driver’s license and insurance permit documents.

# Target Users.

This application is targeted for the general public as well the government officers (police officers).

# Application Features.

* Registration – At the very first startup the after launching the application the registration user interface will appear.
* Login – After the registration the user can login by entering details (password and email/phone number).
* Two different logging interfaces for two different personals (driver and police officers) after login in.
* Driver’s user interface consists of QR codes for their relevant documents (license and insurance permit)
* Inside the insurance QR code option button there is the feature of renewing the insurance.
* The renewing of the insurance permit can be proceeded within the application itself because there is a “renew now” button built-in by this method the payment can be proceeded via an online payment method which is also built-in.
* When the insurance permit’s valid time comes to an end the application will notify the user by a simple notification.
* Police officer’s user interface consists of QR code scanner, with this scanner the officer can look up for the driver’s QR code and check the driver’s license and insurance permit.
* The user interface can be changed between light mode and dark mode due to their preferred choice.

# Time Frame For The Project.

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