IN PARTNERSHIP WITH PLYMOUTH UNIVERSITY

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Module Code: PUSL2003	Module Name: Integrating Project
Coursework Title: IP Project Proposal	
Deadline Date: 31/10/2020	Member of staff responsible for coursework: Mr.Upulanka Premasiri
Programme: BSc (Hon) Software Engineering	

Please note that University Academic Regulations are available under Rules and Regulations on the University website www.plymouth.ac.uk/studenthandbook.

Group work: please list all names of all participants formally associated with this work and state whether the work was undertaken alone or as part of a team. Please note you may be required to identify individual responsibility for component parts.

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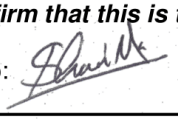
T.D.Liyanage - 10707257

We confirm that we have read and understood the Plymouth University regulations relating to Assessment Offences and that we are aware of the possible penalties for any breach of these regulations. We confirm that this is the independent work of the group.

Signed on behalf of the group: 

Individual assignment: ***I confirm that I have read and understood the Plymouth University regulations relating to Assessment Offences and that I am aware of the possible penalties for any breach of these regulations. I confirm that this is my own independent work.***

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Use of translation software: failure to declare that translation software or a similar writing aid has been used will be treated as an assessment offence.

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PUSL2003 Integrating Project

Project Proposal 2020/21

Traffic law and Fine system

Group Name: PUSL2003 Team 02

Members:

ID	Name	Degree Program (SE/CN/CS)
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Introduction

The title of the project we are proposing for the module IP PUSL2003 is **Traffic laws and Fine system**.

The aim of the proposed project is to reduce the inefficiency and current issues occurring around Traffic Laws and current fining system, and to improve efficiency and productivity in the Traffic Law system.

We are planning to develop an application that will be given to the police officers, which can read the license card of a Driver. When the card is issued the driver is given a specific amount of points, and if a driver violates a traffic law, the police officer will scan the license card and reduce points according to the law violated. In this way if a fine is needed to be played by the drive, he can pay it directly with the police officers' application or can pay from his nearest post office.

Project Objectives

- To make it easy for the policeman to the give a fine.
- To reduce the workload of the police station and the post office.
- Make it easy for the driver to pay the fine.
- Obligate not to break the traffic rules knowing the consequences.
- To maintain the traffic rule.
- To make good and discipline drivers.

Background and Motivation

In the current system when we get a fine our licence is kept by the police. To get our licence back we have go to the police and get the receipt form the police to pay the fine. To pay the fine we have go to the post office and pay the fine and get that receipt to the police station. After we shows the fine receipt to the fine section we have to go to the traffic section to get the licence. This is the current process how we get back the licence.

There for we suggest a new online database system to this fine process. In our system the police do not have to keep the licence. In the new system every driving licence will have some points. If a person break the rules the licence points will be cut according to the crime and get a fine to his driving licence card account directly.so he/she will have 14 days to pay the fine or he/she will be bring to the court. If we want we can pay it online also. In this system if a person keep braking the rules the cutting points will be high according to the braking rules of the two weeks. If a person licence points go below some point mark the licence will be cancelled for two years and a person who got a fine will restore the lost fine point if he/she does not break a rule within 3 weeks.

According to the new system the policemen do not have to write the fine by hand and no need to write in the police station book after work. That mean the driver do not have to west the time to get the licence for the road and the post office will have less work and it is very efficient.

Approach/Methodology

- How does your solution differ from existing ones?

  It will be connected to an online database and we will create a mobile application for the current problem so everyone can see the driving licence profile and know the status about the profile and see how good is there driving skills.

We are planning to use the iterative development methodology

“The **iterative model** is a particular implementation of a software **development** life cycle (SDLC) that focuses on an initial, simplified implementation, which then progressively gains more complexity and a broader feature set until the final system is complete.”

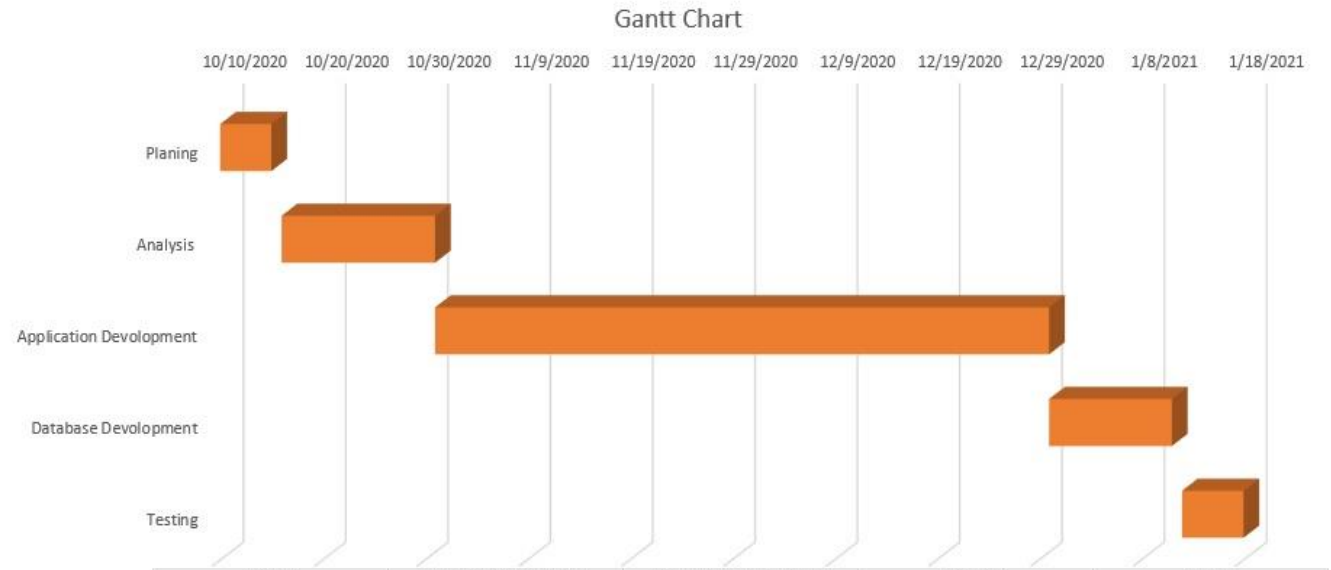
BENEFITS

- Maintain the traffic rules
- Make it easy to give the fine and pay the fine.
- Reduce the time (old way to get the license back.)
- Reduce the work load and it is efficient.
- Reduce the post office work.
- It is user friendly.

Resource Requirements

- Visual studio
- Android Studio
- MySQL
- Flutters
- NetBeans

Project Plan



	Testing	Database Devolopment	Application Devolopment	Analysis	Planing
start Date	1/12/2021	12/30/2020	10/31/2020	10/16/2020	10/10/2020
Days to complete	6	12	60	15	5

References

Iterative Devolopment-

Powell-Morse, A., 2020. Iterative Model: What Is It And When Should You Use It?. [online] Airbrake Blog. Available at: <https://airbrake.io/blog/sdlc/iterative-model#:~:text=The%20iterative%20model%20is%20a,the%20final%20system%20is%20complete> [Accessed 16 October 2020].

LAWS OF SRI LANKA – MOTOR TRAFFIC ACT-

Srilankalaw.lk. 2020. Motor Traffic Act | Volume V. [online] Available at: <https://www.srilankalaw.lk/Volume-V/motor-traffic-act.html> [Accessed 16 October 2020].