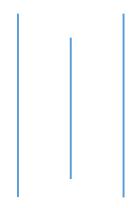


Web-based Traffic Violation Record System for Metropolitan Traffic Police

Summer Project Proposal



Submitted by:

Bibesh Manandhar Roll No. 4780 Batch (2013 - 2017)

Submitted to:

Asian School of Management And Technology Tribhuvan University Gongabu, Nepal

Under the supervision of

Mr. Surya Bam
Program Coordinator
Asian School of Management & Technology

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1. Introduction

Metropolitan Traffic Police Division was introduced in Kathmandu valley in 2063 B.S. Before the establishment of Metropolitan Traffic Police, the division was known as Valley Traffic Police. Till date, this division has been working only in the 3 major cities i.e. Kathmandu, Lalitpur and Bhaktapur.

The organization has been implementing the Information Technology since the introduction of **Computerized Record System** in 2051 B.S. [1] in this organization. Since then, the organization has been completely based on computers and different new technologies like CC Cameras, Breathe Analyzer, go pro camera etc. and all the records has been saved using the computerized system. Different types of technologies have been using in the organization. Different software and hardware has been used since the computerization took place. Software like Traffic Violation Record System, Traffic Nepal etc. are being used.

Traffic Violation Record System is the application used by the Traffic police since the establishment of Computerized Record System in 2051 B.S. It is a desktop based application the is created using Oracle. The system takes the type of violation and the amount of penalty is printed with the bill. This is the main use of this application. The data is saved into the Oracle database.

The proposed system is the advance form of the old desktop based system. This proposed system is applied to convert the old desktop based application into the web based and mobile based applications. "Web applications are popular due to the ubiquity of web browsers, and the convenience of using a web browser as a client to update and maintain web applications without distributing and installing software on potentially thousands of client computers is a key reason for their popularity, as is the inherent support for cross-platform compatibility" [2]. The new system can be useful for using the application from anywhere in any devices.

2. STATEMENT OF PROBLEM

Traffic Violation Record System records the information about the drivers who violate the rules. Violation includes over weighted driving, drink and drive, driver without papers etc. The penalty / fines is automatically generated by the computer system according to the type of violation this is submitted in the main form by the user. The record is stored into the database. After the driver pays penalty, the papers are returned to the driver and information is saved into the database.

3. LIMITATIONS

There are several limitation of the system applied in the organization:

- Application cannot be used without internet.
- Application cannot be used in the mobile.
- Application used in the intranet rather than internet.
- Desktop based system

4. OBJECTIVES

a. General Objective

The basic purpose of this study is to information about the use of Compute based application in this organization.

b. Specific Objective

The specific objective of this study are mentioned below:

- Changing the desktop based application to mobile and web based application
- Problems in the software used in organization
- Completing the future plans of the organization

5. LITERATURE REVIEW

According to Hantu (2011),"In the Democratic Republic of the Congo five automatic traffic police are in operation. The large aluminum figures are able to rotate at the waist, and contain closed circuit television cameras to allow them to record offenders, for later apprehension or imposition of fines." [3]

According to article in State of new jersey website, "Closed circuit television is designed and built by a women's engineering co-operative in DRC. Another five robots have been bought for Katanga Province, and a further thirty for motorway use have been proposed."

According to Nourdine Aliane, Javier Fernández, Sergio Bemposta and Mario Mata "Traffic violation alert and management software architecture is organized into two modules: namely, the traffic sign detection and recognition (TSDR) and the traffic violation management(TVM). The TSDR module is used to detect vertical signs present along the road and is aimed at alerting drivers in certain dangerous situations, such as "Speeding", "No Passing Zone", "Intersections", "Stop Signs", "Yield Signs", "Dangerous Turns", "Steep Slopes", or "Road Works". On the other side, the TVM module is intended to manage traffic violations when they take place. At present, this module is focused only on three signs: namely, "Speed Limit", "Stop Sign", and "Forbidden Turning"."

6. RESEARCH METHODOLOGY

As different methodology can be applied for gathering required information, I have also used various research methods of to extract the information required for the proposed system. Online Publication research, direct interviews with questionnaire and work process observation are the methods I have used to gather the information required.

6.1 Data Collection

6.1.1 Online publication research

I have gone through different online news articles, journals and other related websites related to student information system. Reading these articles, journals and websites, I have got important information about what a student information does, how it is important to an organization.

6.1.2 Direct interviews

My research is based on interview taken in Metropolitan Traffic Police. I have conducted a direct personal interview with Er. Amrendra Prasad Singh, inspector of Metropolitan Traffic Police, based on questionnaire to gather information.

Questionnaire:

- 1. Does the organization use any kind of computer system or not?
- 2. What kind of software is being used?
- 3. Before implementing software, what was used to record the system?
- 4. What are the drawbacks of the system?
- 5. What are the future plans of the system?

6.1.3 Work process observation

I have closely observed the work process of the organization related to Traffic Violation Information System. It has given me many ideas about how the system works.

6.2 Work Flow Diagram

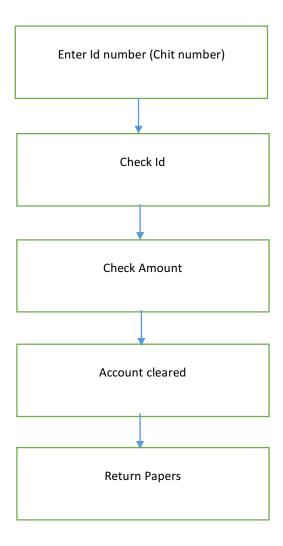


Fig: Workflow diagram of Traffic Violation Record System

7. WORKING SCHEDULE

	Task Name	Duration	2016			
I.D			May	June	July	August
1	Study & Analysis	3w				
2	Data Collection	2w				
3	Implementation	3w				
4	Testing & Analysis	2w				
5	Documentation	2w				
6	Review	1w				
7	Presentation & Submission	1d				ı

8. REFERENCES

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