Software Requirements Specification

for

Traffic violation management

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Revision History

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
| **Demo SRS.** | April 6nd,2020. | Create demo Software requirements specification. | 1.0 |
| **Complete SRS with all group comments.** | April 8th ,2020. | Repair the last Software requirements specification. | 1.1 |

# Introduction

## Purpose

This Software requiremets specification(SRS) will descide overview of traffic violation management system, this SRS include the descride of system about interface,database resource, system analysis, design system.

## Document Conventions

Software requiremets specification will encronym by SRS.

## Intended Audience and Reading Suggestions

Reader of this SRS is user use product, the software management of this project, Reader should reader the table of contents fisrt to know overview the components of product, then they can read part which they care to use.

## Product Scope

This a destop query information about traffic violation of transport, complain for violations of police, management data user,…

## References

Website www.mt.gov.vn.

# Overall Description

## Product Perspective

This a new product in project of university. This a digarm overview about system.

(1)

## Product Functions

### management

provided to management layer functions to : Update, insert, delete,.. for admin or super admin, management admin account.

### query data.

User request data in interface, search, communication with manager**.**

## User Classes and Characteristics

### User

This common user in application, they have infomarion in system, they create a account and use this account to request information and use functions of application.

### Admin

This common management they can use management functions in system.

### Super admin

This high manager they can use management admin functions in system.

## Operating Environment

This application will operate in desktop, we need Sql server to management data. Domestic, the number of transport is very very large so we can have a big database to save this.

## Design and Implementation Constraints

Client who responsible management this application will update data and management data, data input must very exactly, and compliance to format template.

## User Documentation

Until now, user can read this SRS, some document we attach in software to know some tutorials and if you need help can mail in team develop.

## Assumptions and Dependencies

Size of database dependency depend on management scope, we can use this software with a provincial or nationwide, functions of software will be used depend on type of layer user.

# External Interface Requirements

## User Interfaces

* C# .NET framework to design.

## Hardware Interfaces

* Windows.
* Support by SQL server.

## Software Interfaces

|  |  |
| --- | --- |
| **Software used** | **description** |
| Operation systeem | We have a popular choice is Windows. |
| Database | We use SQL Server to save and management data. |
| C# .net | We use linq to sql to processing data, wiform to design interface, action,…. And some .NET to design 3tier- model. |

## Communications Interfaces

All Windows 32 or 64 bit can use this software.

# System Features

## User feature.

### Description and Priority

Traffic violations management system maintains information about violations of transport in traffic, comments, communication, complain with manager system. This feature have high priority because this is a necessities of people.

### Stimulus/Response Sequences

* Query violations data and display list violations.
* Communication with manager system, comment and complain.
* Read the traffic laws.
* Fines.

### Functional Requirements

This feature requirements user must be register a account in system, user must be have transport and driver license registered and have vehicle ownerships.

## Management feature.

### Description and Priority.

Manage data of user, update data user, repair the faulty data in system. This feature have high priority because this is the goal of application provide a tips for manage data easily for manager.

### Stimulus/Reponse Sequenses

* Insert data from Excel to database.
* Delete faulty data.
* Update new data when have revision.
* Display data to easier manage.

# Other Nonfunctional Requirements

## Performance Requirements

The steps involved to perform the implementation of database are as listed below :

(2)

## Safety Requirements

Because this data is update by excel file and save in sql, we can have some duplica of excel file and can can export data in sql to word or excel file to save every day have revision.

## Security Requirements

We will encryption the pass and secret answer to assurance safety for user.

## Business Rules

* Admin : manage data, manage user, can use functions involve to manage data and user.
* Supper admin : can use all feature of admin, but they can manage admin.
* User : the commom user can use basics functions.