

Online Traffic Bill Payment System

J Bhavani

Dept of CS ,
SVKP & Dr K S Raju Arts & Science
College, Penugonda, A.P, India,

P Srinivasa Reddy

Associate Professor, Dept of CS,
SVKP & Dr K S Raju Arts & Science
College, Penugonda, A.P, India.

Abstract - The objective behind developing Online Traffic Challan Payment is to save the customers time and money in the process of challan payments compared to those incurred from attending as manual. In this system Employees can add the fines to the customer based on the offence. Customer can check his challan status by entering vehicle No and he can pay the fine amount through credit card.

1. INTRODUCTION

INTRODUCTION & OBJECTIVE

This System helps in creating and managing a data repository of the inventory pertaining to the hardware and software of IT resources in an organization.

Features include

- Provide rich user interface and secure registration.
- The Employees information files can be stored in centralized database which can be maintained by the system.
- Data Reports.
- Maintenance of profile details of the employees, and retrievals as and when

required.

- Customer Challanas Details.
- Customer Challan Payment Details.
- Vehicle Registration Details.
- Authentication is provided for this application. Only registered users can access.

Scope

- Admin add the Traffic Zones and Offences
- Admin add the Employees and assign to Traffic zones.
- Admin Manage the offence charges.
- Employee add the Customer fines
- Employee can update his profile and change password.
- Customer can check his challan status
- Customer can pay his challan payments.
- Admin can take backup of all kind of data.
- Admin generate the reports of challans, vehicles and Employees.
- Communication provided through email.

2. OVERVIEW OF THE SYSTEM**Existing System**

- Does not provide rich user interface.
- Existing system user's needs to save his information in the form of excel sheets or Disk Drives.
- It doesn't provide the challan payments through online.
- There is no sharing possibility if the data is in the form of paper or Disk drives.
- There is very less security for saving data.
- There is no authentication.
- In this system there is no report generation.
- There is no web service concept in the existing system.
- There is no communication between users.

Proposed System

- The development of the new system objective is to address the solutions for the drawbacks of existing problem domain.
- The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.
- User Friendliness is provided in the application with various controls provided by system Rich User Interface.

- Provides secure registration and profile management of all users.
- It provides online challan payments through credit card.
- It can be accessed over the Intranet.
- Customer can check his challan status.
- The Employees information files can be stored in centralized database which can be maintained by the system.
- Authentication is provided for this application. Only registered users can access.
- Report generation feature is provided to generate different kinds of data reports.
- This system is developed by using web services.
- In this system communication provided between users through email.

Number Of Modules

The system after careful analysis has been identified to be presented with the following modules:

- Administrator
- Customer
- Employee
- Web Registration
- Reports
- Authentication

Administrator

- He is the person who can manage Employees, Offences, Traffic Zones.
- He can assign employees to traffic zones.
- He can take care of maintain the monthly database backup.
- He can generate the reports of employees, Customers and challans.
- He can manage the Offence charges based on vehicle type.

Customer

- He can Check the challan status by vehicle No
- He can pay his challan payments by using credit card.

Employee

- He has to login with Uername and Password.
- He can change his profile and password also.
- He can add fines to the customer based on offence.

Web Registration

The system has a process of registration. Every User need to submit his complete details in the form of registration. Whenever a User registration completed automatically he/she can get a user id and password. By using that user id and password he/she can log into the system.

Reports

Different kind of reports is generated by the system.

- Customers Report
- Employees Report
- Challans Report.

Authentication:

Authentication is nothing but providing security to the system. Here every must enter into the system throw login page. The login page will restrict the UN authorized users. A user must provide his credential like user Id and password for log into the system. For that the system maintains data for all users. Whenever a user enters his user id and password, it checks in the database for user existence. If the user is exists he can be treated as a valid user. Otherwise the request will throw back.

Inputs and Outputs

The major inputs and outputs and major functions of the system are follows:

Inputs:

- Admin enter his user id and password for login.
- Admin Add the Employees Details into the System.
- Admin add the Offences, Traffic zones and Offence charges.
- Employee enters his user id and password for login.

- Employee insert fines to the customer.
- customer enter his vehicle No to check challan status.

Outputs:

- 1 Admin can get the Challanas Report.
- 2 Employees can get their profile details.
- 3 Customer can get their challan status
- 4 Admin can get all the employee details.
- 5 Different kinds of reports are generated.

3.SYS TEMDES IGN

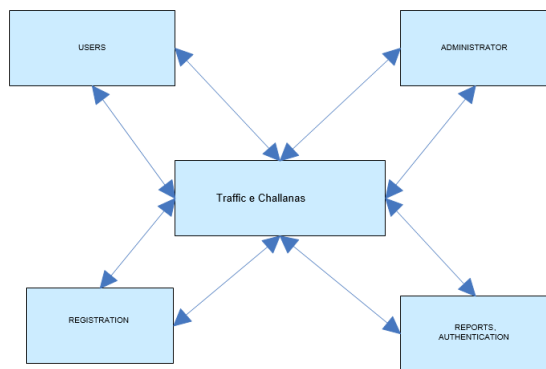


Fig3.1: Context Diagram

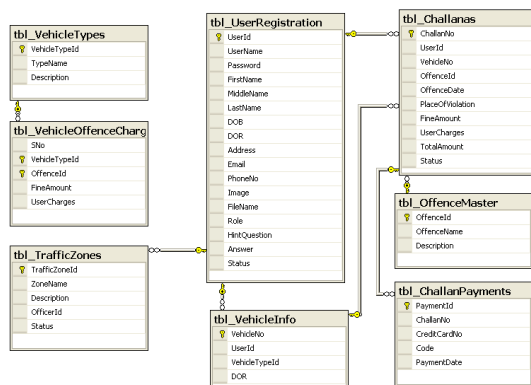


Fig3.2: ER Diagram

4. OUTPUT S SCREEN SHOTS

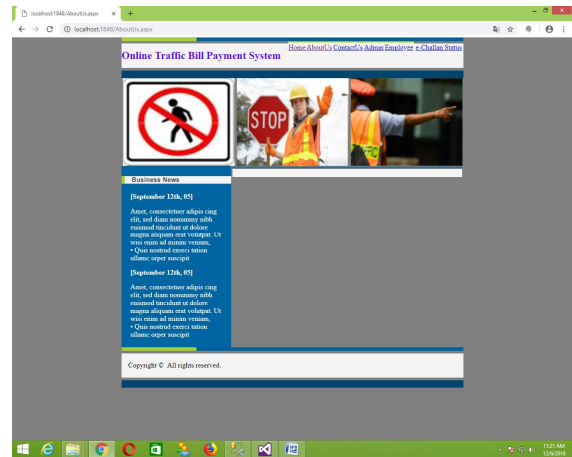


Fig 4.1:Home Page

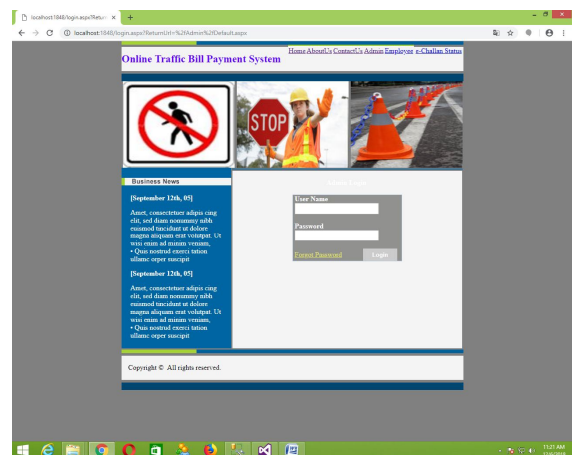


Fig4.2: Login Form Page

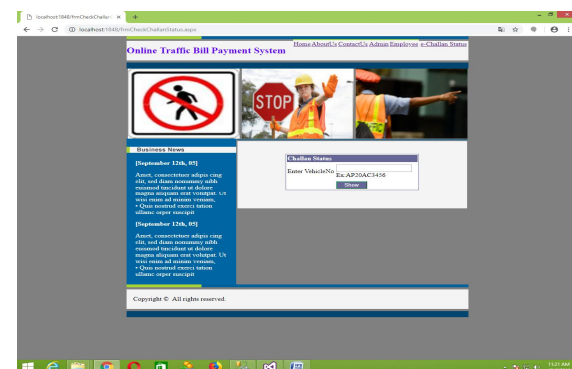


Fig 4.3: Challan Status Page

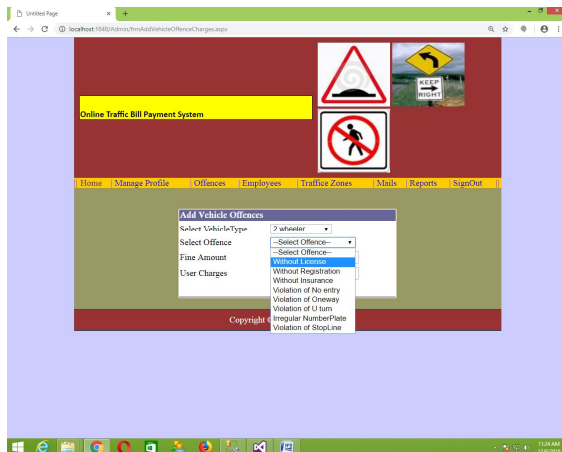


Fig4.4: Admin Vehicle Page

5. CONCLUSION AND FUTURE ENHANCEMENT

It has been a great pleasure for me to work on this exciting and challenging Online application for the Online Traffic Bill Payment project. It also provides knowledge about the latest technology used in developing web-enabled application and client-server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

BENEFITS:

The project is identified by the merits of the system offered to the user. The merits of this project are as follows: -

- It's a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.

- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stage of any new creation, data entry or updating so that the user cannot enter the invalid data, which can create problems at a later date.
- Sometimes the user finds in the later stages of using the project that he needs to update some of the information that he entered earlier. There are options for him by which he can update the records. Moreover, there is restriction for him that he cannot change the primary data field. This keeps the validity of the data to a longer extent.
- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can say that the project is user-friendly, which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from information available on computer takes much less time than manual system.

- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

LIMITATIONS:

The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.

Training for simple computer operations is necessary for the users working on the system.

6. REFERENCES

- [1] www.codeproject.com.
- [2] The Complete Reference “Crystal Reports 2008” by George peck.
- [3] Training and placement website of IIT,Patna.
- [4] “Microsoft Visual Basic 2010” by Michael Halvorson.
- [5] Tynjälä, P., Perspective into learning at the workplace, Educational Research Review, 3, 2008, pp.130-154.
- [6] “The Complete Reference ASP.NET” book by Robert Standefer III..

About Authors:



J Bhavani is currently pursuing CS SVKP & Dr K S Raju Arts & Science College, Penugonda, West Godavari A.P. His research interests include Data Mining, Artificial Intelligence.



P.SRINIVASA REDDY is working as Associate Professor in SVKP & Dr K S Raju Arts&Science College, Penugonda, A.P. He received master's degree in Computer Applications from Andhra University. His research interests include Operational research, probability, Design data analytics, Big Data Analytics