Project Definition:

Toll Tax Management System is aimed to develop an easier way for pays a toll tax whenever vehicle pass through over a highway or bridge.

Purpose:

* The toll tax management system maintains information about the various types of vehicle toll taxes.
* It also helps to maintains and generates toll receipts and pass for some duration.
* Provide online generate pass or receipts facility.
* Provide online transaction facility.

Scope:

Only registered users have benefits to access entire system, for others users it is read-only web-pages. This system applies only to that specific toll booth.

Technology Used:

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| --- | --- |
| Type | Web Based Application |
| Front-End | Bootstrap, HTML, CSS |
| Back-End | MYSQL, PHP, XAMP server |
| Operating System | Windows 10 |
| Tools | Umlet, MS PowerPoint, MS Word, Visual Studio Code, GitHub |

**Hardware & Software Requirement**

* **Required Hardware:**
* An x64-capable processor
* 2 GB or more of RAM
* A monitor with a resolution of 1024 x 768
* **Required Software:**
* Visual Studio Code, GitHub
* PC : Windows 7,Windows 8,Windows 10.
* XAMP Server

 Identification of needs:

**Our project has the following needs:**

• Make all the system computerize

• Reduce time consumption

• All system managements are automatic

• Easy operations for operator of the system

Functional Requirements:

* Always validate login credentials and also register with its details.
* All users have a facility to modify their profiles.
* Add vehicle categories whenever new type of vehicle arrived and modify vehicle toll tax.
* Functionality to generate vehicle toll receipt and also have a searching facility in system
* Integrated workflow to make a monthly/yearly pass by users.
* Print-out for monthly pass and pays the pass amount.
* Facility to send copy of their pass to their registered e-mail.
* Keep track of every entry whenever vehicle pass through that specific toll-booth.
* Keep a report on week wise / month wise / year wise entries.

Non-Functional Requirements:

* 24 X 7 availability
* The system provides a login to only registered and authorized users.
* Only users registered within the system are able to access it. Customer’s personal information is confidential and secured.
* The system is very easy to use and is quite efficient to access all the data needed and to acquire all necessary information. All important information is available on the website.

Modules:

**Admin**

* Login
* Manage Pass
* Generate Report

**Employee**

* Registration
* Login
* Manage vehicle entries
* Generate Receipt/Pass

**Customer**

* Registration
* Login
* View Pass
* Payment

User Characteristics:

**Admin**

* Will be able to maintain general detail of employee
* Will be able to manage vehicle categories
* Will be able to search pass/receipt of customer
* Will be able to generate reports of date wise entry/week wise -entry/month wise entry.

**Employee**

* Will be able to modify their profile
* Will be able to manage vehicle entries
* Will be able to generate receipt/pass
* Will be able to view receipt/pass

**Customer**

* Will be able to registered in system
* Will be able to see pass/receipt in his/her email
* Will be able to pay amount in cash or debit cards

Use Case Description:

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| --- |
| Introduction: |
| Actor: |
| Precondition: |
| Post Condition: |
| Event Flow:Basic Flow: |
| Alternative Flow 1: Unauthorized Customer/Admin/Employee |
| Special requirement: |
| Associated use: |

Use case Diagram

