CSE 326

Project Scope Fixation

Automated Toll Collection System

Group - 02

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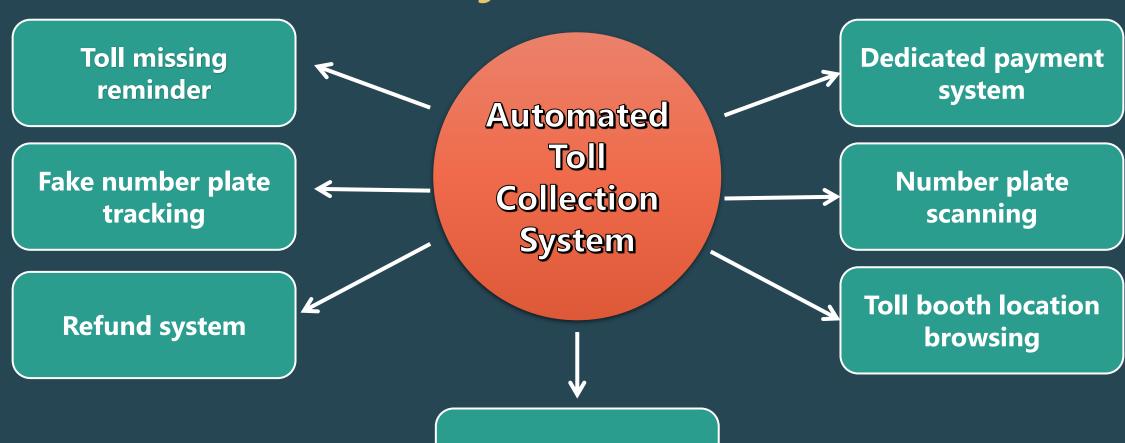1705080 - Shafayat   1705084 - Utsa

Motivation

Present Scenario

- ➢ **Manual Processing**

- ➢ **Time Consuming**

- ➢ **Human Effortful**

- ➢ **Inefficient**

- ➢ **Heavy Traffic Occurrence**

Goal

Our goal is to automate the process

Major Features

Automated Toll Collection System

- Toll missing reminder
- Fake number plate tracking
- Refund system
- Dedicated payment system
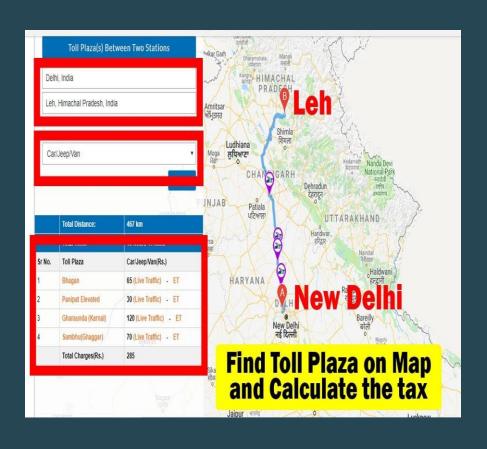- Number plate scanning
- Toll booth location browsing
- Special offers

Modules
&
Submodules

Browsing Map

➢ Select a route

➢ See toll booths

➢ Pre-paid facilities

Payment System

- ➢ **Registration**
- ➢ **User profile**
- ➢ **Recharge**
- ➢ **Payment**

Number-plate Scanning

➢ **Number-plate scanning**

➢ **Number-plate validation**

Tracking Fraud

➢ **Tracking false number-plate and inform to police**

Toll miss reminder

➢ Reminder if a toll payment missed

Refund Policy

> ➢ **Refund toll amount after certain time period**

Special Offer

➢**Special bundle offer for pre-paid users**

Data Collection Process

Retrieve vehicle Registration no from BRTA

Scan vehicle no while passing through tool booth

Related Example

Similar kind of concepts can be seen in many other countries like Japan, China, USA etc.

In Bangladesh, this is totally a new concept

Upcoming Presenter

➤ **Presentation 1 (requirements analysis using BPMN diagram)**
    1705084 – Asif Ahmed Utsha

➤ **Presentation 2 (Mock UI)**
    1705081 – Md. Kamrujjaman

➤ **Presentation 3 (Class diagram) (+ ER diagram in applicable cases)**
    1705072 – Sourov Jajodia
    1705080 – Shafayat Hossain Majumder

➤ **Presentation 4 (Interaction diagram) (+ State diagram in applicable cases)**
    1705079 – Kazi Wasif Amin Shammo
    1705082 – Md. Mehedi Hasan