



## American International University-Bangladesh (AIUB)

Department of Computer Science and Engineering

Faculty of Science & Technology (FST)

Fall 20-21

CSC 00191- Object Oriented Analysis And Design (OOAD)

Section: I

**Project Title:** Vehicle Toll Plaza Management System

**Submitted by:**

<u>Name</u>	<u>ID</u>
1. Md. Tamim Hossen Sefat	<u>19-39349-1</u>
2. Nahid Hasan Sajib	<u>19-40866-2</u>
3. Jannatul Nusrat	<u>19-40885-2</u>
4. Ankon Sarker Linkon	<u>19-40895-2</u>

**Submitted to:**

**MD. ANWARUL KABIR**

Sr. Assistant Professor

Department of Computer Science

## **OOAD Project (Group Project)**

### **Project Proposal**

**You have to propose any project of your own for which you want to implement a design. For this proposal you have to follow the following template.**

#### **1. Project Name: Vehicle Toll Plaza Management System**

#### **2. Project overview**

**Brief description of the project outlining the possible components and features of the system. You have to also point out the user group(s) who is going to use the system.**

**3. Justification : In this section you have to point out the benefits of your proposed system.**

#### **4. Overall Use Case of the Proposed Project**

## Vehicle Toll Plaza Management System

### Project overview:

Vehicle toll plaza management is a system where drivers come to cross the bridge with tax if he/she has enough legal information and obey all the rules. One or more drivers are checked by one or many toll collectors where collectors check the vehicle category, driver details and license number. Then toll collector collects vehicle's license to verify it by at least one police officer. After that police declares the confirmation to the collector to take payment. Driver can pay bill via cash, card. For over weight of vehicle, driver needs to pay extra charge.

### User Group:

Driver, Toll Collector & Police.

### **Justification:**

The main objective of this project is to computerize the manual system & reduce the time consumption.

In other words we can say that our project has the following objectives as well as benefits:

- Make all the system computerize
- Reduce time consumption
- Reduce error scope
- All system managements are automated
- Easy operations for operator of the system
- No paper work requirement
- Provides toll tax rates for different vehicles

## Use Case Diagram for the System:

Actors: Driver, Toll Collector & Police.

Diagram:

