Institute of Technology Tallaght, Department of Computing

HDip in Computing

2013/2014

EAD

CA3

Value: 25%

29/4/2014

Duration: 2 hours

Type: in-lab, open-book

Lecturer: Gary Clynch

**Web Application**

An ASP.Net MVC application is required which allows a driver to calculate the cost of a toll on the M50 motorway.

The toll charges are as follows:

|  |  |
| --- | --- |
| **Vehicle Category** | **Toll Charge (€)** |
| Car | 2.00 |
| Public Service Vehicle | 2.00 |
| Bus | 2.80 |
| Goods | 4.10 |

If the vehicle has an electronic tag then a discount of 20% is applied to the charge.

The web application should use a model class to represent a vehicle i.e. vehicle type and whether it has an electronic tag or not. It should have logic to calculate the toll charge for that vehicle.

Once the application runs have a view display which allows the user to input the vehicle type (from a dropdown), indicate whether the vehicle has an electronic tag or not and request the toll charge to be calculated and displayed.

One view will suffice; initially have the view display the toll charge for a car with no electronic tag.