Project Report

Title	Metro Rail
SECTION	H
COURSE	Computer Graphics

Name	ID
Chowa, Suraiya Jahan	17-35523-3
Tanvir, Mohammad	19-39417-1
Islam, Maizul	19-41002-2
Rahman, Atowar	19-41012-2
Ferdous, Tahmid Al	19-41077-2

Project Background:

The main reason behind doing this project is to demonstrate how the metro rail in Dhaka City will look like on it's opening.

Project Features:

The features we've implemented in our projects:

1. It contains a structure of house, tracks and cart for metro rail.
2. Behind the structure there is a city and above them a sky scene.
3. Underneath the structure there is a traffic scene with cars.
4. The train is animated which moves from one point to another.
5. The cars on the road are also moving across road.
6. There is also a transition of day and night.
7. In the daylight, the sun rises.
8. In night, the moon gets visible.
9. There is also a cloudy weather in which the sun and moon are not visible.
10. We can see stars in the night sky.
11. The clouds in the sky also moves.

Tools used:

We've used Code Blocks as our IDE for this project. As our programming language we've used C++. We've completed our project using the glut open GL library.

Individual Contribution:

Name	Contribution
Chowa, Suraiya Jahan	Have implemented the code for the ground/field part and also the background buildings
Tanvir, Mohammad	Have implemented the code for the front buildings and its windows and also the light on the footpath.
Islam, Maizul	Have implemented the code for the metro rail platform and also the train. Have animated the train to move from one place to another.
Rahman, Atowar	Have implemented the code for the road and the vehicles on the road. Have animated the vehicles to give a feeling of the real traffic.
Ferdous, Tahmid Al	Have implemented the code for the sky, clouds, sun and moon. Also added animation to the sun, moon and clouds. Have also worked on the state change from one state to another. The states are basically day, night and rainy.

Project Goal:

The goal of this project is to show the people and give a small idea of how the metro rail will operate after its opening.

Screenshots: