**Project Statement**

1. Formal Client

To start a project , it always necessary to know who is our formal client, so we can get what’s the project going to do , and the what’s the client want to achieve.

For this project, our Formal client is Mr. George who’s working in the city hall, after we interview him, he wants us to build a traffic lights application to change the traffic situation in the city.

1. Project leader

Before starting a project, it’s important to decide a project leader to manage team and communication with other team members or client.

In our project team, we decide Todor Tsekov to be the project leader.

1. Current Situation

Until now, we know because of no traffic light, there are a lot of accidents happened and it also make plenty of traffic jam. Now, we are thinking about to build a traffic light program to adjust car-streams.

1. Project justification

Because of a lot of accidents and traffic jam happened in Mr. George’s city, so he want to find someone to help him built a traffic light program to reduce these things happen.

1. Project product

The goal of this project is to reduce the accidents and avoid traffic jam that will keep track of

1. Change the car-streams of every feeder lane
2. Adjust the ‘green ’ time of the traffic light
3. Project deliverables and non-deliverables

Deliverable:

1. An application to limit car-streams and change the traffic light for cars and pedestrians.
2. Source code
3. Manual
4. Design layout
5. Stuff list

Non-Deliverables

1. Training for the use of the application
2. Any other services
3. Employees working with the application
4. Project constraints
5. Because this project may involve hardware, so it may use C++ or C language.
6. Because of limitation, we can only work on pc with software. So it may not have chance to implement it in real word.
7. Project risks

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| Risk | Impact | Alternative Scenario |
| Group member sick or have other emergency to do | Medium | Reassign the assignment |
| Project didn’t finish on time | High | Add more extra time to do the project. |
| Group member Misunderstood or didn’t what to do during the project | High | Use extra time to explain more in details to make sure everyone understand. |
| Obsolete Software | Medium | Change to another software and try to integrate already done work into it |