Assignment 2: First Requirements Document

(14 points of 70)

First draft deadline: Thursday, October 16th - 10 am (Zurich time)
Final Deadline: Thursday, October 23rd 10 am (Zurich time)

Commit the files at
https://svn.origo.ethz.ch/dose2008/group_n/team
where n is your group number
and team your team name

Clusters

The project consists of three clusters:

Cluster 1: SYST: GUI and overall organization of the BTW system

Cluster 2: GEO: Interface with GIS information and Traffic

Cluster 3: PLAN: Route planning and advice

In assignment 1 you have decided which team is responsible for which cluster. The project will be implemented in two phases. In the first phase, requirements will be captured, then requirements will be consolidated in the group, and finally the first version of the system will be implemented. In the second face, requirements will be extended/adapted (if needed), and the final system will be delivered.

Commit Protocol and rules

Since we are working in the same project (dose2008), we need to define a protocol and rules to commit. So, every time you commit, you should put the following text:

[Group n] message

where n is your group number and message is the text of the commit.
You should always add a message describing the commit. As a rule, you should NEVER commit code that does NOT compile. And you should only include the code and not the generated C code (located in EiffelGen).

REMAINER: do not forget to add the new files you created, otherwise the code will not compile.

Schedule

The project schedule is the following:

- **Assignment 2:** October 23rd - First Requirements Document
- **Assignment 3:** October 30th - Consolidated Requirements Document in the group and API (one document per group)
- **Assignment 4:** November 20th - First implementation
- **Assignment 5:** December 19th - Final implementation, final requirements document

Tasks

In this assignment each team has to write a requirements document for the cluster the team is responsible for. Each team is responsible for its own requirement document. However, in the next assignment the three documents will create a unique requirements document. So, we recommend communicating in the groups and using the same tool for writing. This collaboration will help you to create the unique document (for example, you can define the same acronyms, definitions and abbreviations).

Templates

You can find templates for the requirement document at:


Furthermore, you can find examples of good requirements documents on the same page. Please consider IEEE recommendations given by IEEE Std 830-1998. Students from universities that do not have access to IEEE library please ask ETH students to send you the document.

First Draft

You have to commit a first draft on Thursday October 16th. **This version will not be graded but it is mandatory to commit the first draft. Not committing the first draft implies failing the course. Teams that do not provide the draft will leave the experiment and if so some groups may be reorganized.**
We recommend committing your document frequently so that other members of the group can see document.

**First EiffelStudio project with Traffic**

We have created a base EiffelStudio project for all the groups. This project is located at:

https://svn.origo.ethz.ch/dose2008/group_n/src/

where n is your group number. To open the project, open EiffelStudio, and open the following Eiffel object:

https://svn.origo.ethz.ch/dose2008/group_n/src/btw/syst/group_n.ecf

The project has three clusters:

- syst:
- geo
- plan:

You should implement your project in the cluster you are responsible for.

**Tasks**

- Update the repository and get the Eiffel project.
- Compile it and check that the project compiles and runs.
- Change the test class (adding for example a comment in the test class) and commit.

(We want to check that you can update the repository and use the Eiffel project. We do not want to wait until the implementation starts to check that you can compile the project. We want to be ready to program!)

If you have any question about this Eiffel project, ask Martin Nordio.