

# Resolving Name Clashes in Eiffel

## PROJECT PLAN

Semester project

Project period: April 19 – July 15

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7<sup>th</sup> semester

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### 1. PROJECT DESCRIPTION

#### *Overview*

The goal of this project is to analyze the current naming situation in Eiffel and the problems which can occur due to the lack of namespaces. A tool should be provided which resolves these conflicts.

#### *Scope of the work*

- **Analysis:** As a start, the current situation must be analyzed with an emphasis on the implications of a system lacking namespacing facilities.
- **Tool development:** A tool should be developed to resolve the problems discovered in the analysis phase.
- **Report:** Documentation of the results of analysis and development

#### *Intended results*

- **Name clash resolving tool:** A tool which resolves name clashes in Eiffel projects
- **Report:** Documentation of the results of analysis and development

### 2. BACKGROUND MATERIAL

#### *Reading list*

- Object Oriented Software Construction [1]
- Eiffel – the language [2]
- Component Software [5]
- Namespaces in XML [4]

### 3. PROJECT MANAGEMENT

#### *Objectives and priorities*

- understand the current situation and problems (high priority), possibly including ideas for alternative solutions
- provide a tool to help solve major problems (priority)

#### *Criteria for success*

A tool must be provided which helps developers resolve name clashes in Eiffel.

#### *Method of work*

ISE Eiffel Studio will be used for the project. Utilities provided by GoboSoft [3] will be used as needed.

#### *Quality management*

Regular meetings with the project supervisor

#### *Documentation*

A report of my work will be written, partly in parallel to the work and finished at the end of the project. The documentation of the source code will include a description of the main classes as well the major design decisions.

### 4. PLAN WITH MILESTONES

#### *Project steps*

##### **Analysis**

- What are the major sources of name clashes?
- What possibilities are there to resolve them?
- Studying the tools which can be used for this task (Gobo).
- Design the tool which will be the major output of the project.

##### **Implementation**

- Implementation of the tool

##### **Documentation**

- Report

#### *Deadline*

Project Start: April 19, 2005

Deadline: July 15, 2005

*Tentative schedule*

	W1 6	W17	W18	W19	W20	W21	W22	W23	W24	W25	W26	W27	W28
<b>Analysis</b>													
Study the problem													
Design of tool													
<b>Implementation</b>													
Implement the tool													
<b>Documentation</b>													
Report													

**REFERENCES**

- [1] Bertrand Meyer: *Object-Oriented Software Construction, 2nd edition*, Prentice Hall, 1997.
- [2] Bertrand Meyer: *Eiffel – the language*, Prentice Hall 1992
- [3] Gobo Eiffel Project, Online at: [www.gobosoft.com](http://www.gobosoft.com), consulted in April 2005.
- [4] W3C: *Namespaces in XML*, Online at: <http://www.w3.org/TR/REC-xml-names/>, 1999
- [5] Clemens Szyperski: *Component Software – Beyond Object-Oriented Programming – Second Edition*, Addison-Wesley / ACM Press, 2002