**Pruning and Refactoring Tool User Manual**

# Overview

The Pruning and Refactoring tool (PR Tool) is for generating new UML information model from a source UML information model and it compares the differences between the source and the new (source) model.

# Functional Requirements

The functional requirements of the PR tool include IM clone, IM comparison, class copy, class split, class join, etc. The functional requirement documents are being developed.

# Programing Language

Programming language：JavaScript

Running environment: node.js

# History

# User Instructions

# Implemented Comparison

**For Classes**

**For Attributes**

**For Associations**

# How to Run This Tool

Running the Pruning and Refactoring tool takes the following steps.

* Step 1: Download nodejs from [https://nodejs.org/en/](https://nodejs.org/en/" \t "_blank) , choose the latest version for your system.
* Step 2: Install nodesjs by double click the "node-vxxx.msi" file. Use the default options are fine. To test whether nodejs is properly installed, the user can type “node -v” in the terminal window. If the version is printed on the screen, you are good to go.
* Step 3: Clone the code from Github to your local repository. <https://github.com/HuiDingCATR/Pruning-and-Refactoring-Tool>
* Step 4: Copy the UML information model that you want to prune and refactor into the “project” folder. And rename it to “source.uml”.
* Step 5: In the command line, switch to the directory you put the PR tool. Type the following command to run the tool.

*node main.js*

* Step 6: If the user wants to copy a class, he/she can put the name of class and the number of copies needed in the CopyAndSplit.txt file. Note that, if no class copy function is needed, the file should not be present in the project folder.
* Step 7: After the CopyAndSplit.txt is properly filled, the user should run the tool again.