|  |
| --- |
| MSC SOFTWARE DEVELOPMMENT |
| Advanced Object Technology |
| Assignment 2 |
|  |
| **Jimmy Collins – R00145569 – Jimmy.Collins@mycit.ie** |
| **5/2/2017** |

|  |
| --- |
|  |

Contents

[Section 1 – Introduction 2](#_Toc479620635)

[Section 2 – Demonstrated Use of Object Orientated Concepts 2](#_Toc479620636)

[Section 3 – Usage of Design Patterns 3](#_Toc479620637)

[Template Pattern 3](#_Toc479620638)

[Section 4 – System UML Diagram 4](#_Toc479620639)

[Section 5 – Screen Captures of Most Impressive Code Snippets 4](#_Toc479620640)

[Section 6 – Evaluation of Work 4](#_Toc479620641)

[Appendix 1 – Database Setup Instructions 4](#_Toc479620642)

[Appendix 2 – Code Commit Analysis 4](#_Toc479620643)

[Contributions 4](#_Toc479620644)

[Code Frequency 4](#_Toc479620645)

## Section 1 – Introduction

TODO

TODO – Improvements on Assignment 1 code

* UI changes to split out general / advanced UI
* Changes to strategy pattern implementation so it just returns a chart - decoupled it from any particular UI element (should have done this in the first assignment – it was tightly coupled to a ‘tab’ element).
* Refactored some code using the Template pattern – see section 3.

TODO

*Figure 1: The main application user interface.*

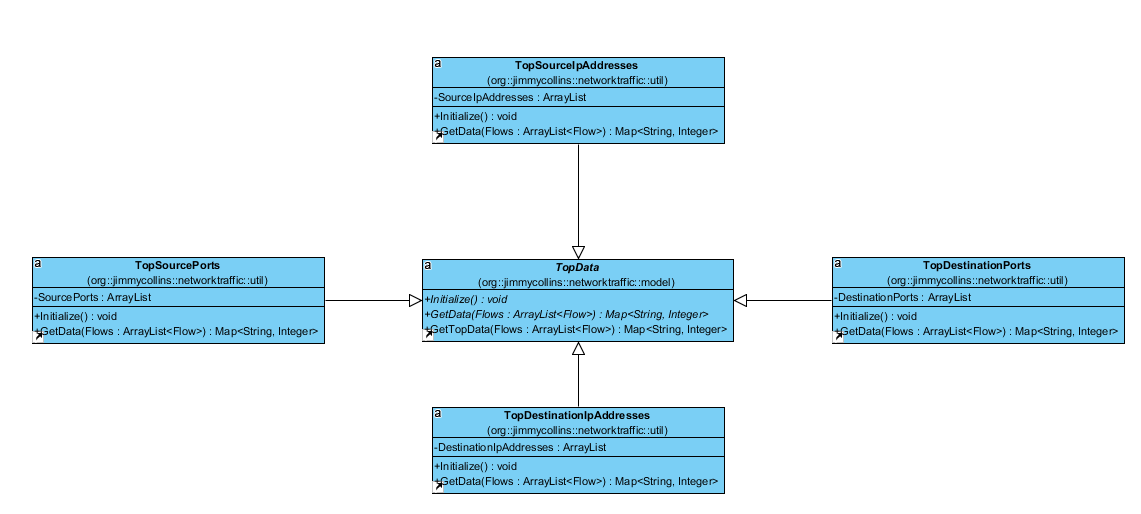
## Section 2 – Demonstrated Use of Object Orientated Concepts

TODO

## Section 3 – Usage of Design Patterns

### Template Pattern

I used the template pattern to refactor some code from Assignment 1, which is the logic that is used to generate the top source/destination ports and top source/destination IP address data from the data parsed. Now the TopData class exists, which is an abstract class with the final method GetTopData, and the helper methods Initialize and GetData which are overridden in each of the concrete classes.



## Section 4 – System UML Diagram

TODO

## Section 5 – Screen Captures of Most Impressive Code Snippets

TODO

## Section 6 – Evaluation of Work

TODO

## Appendix 1 – Database Setup Instructions

TODO

## Appendix 2 – Code Commit Analysis

### Contributions

### Code Frequency