Carleton University

Department of Systems and Computer Engineering

SYSC 3303 Winter 2018

Real Time Concurrent Systems

Assignment 1

1. A Readme.txt file explaining the names of your files, set up instructions, etc

	1	2	3	4
10%	A minimal readme file present.	The TA must spend more than one minute trying to figure out how to get your code extracted.	Code extracted, but some effort required to run it.	Clear and concise instructions so that the TA can extract and run code with no effort.

2. One UCM showing the client, intermediate host, and server (see slide 44, but with a box for client, intermediary task and server – network boxes are not necessary).

	1	2	3	4
10%	Some attempt made.	Missing one of the three main tasks OR missing responsibilities.	Mostly correct (missing one or two items).	1) Client, Intermediary and server all shown, 2) all major "responsibilities" (X) identified and 3) in proper task, 4) arc drawn correctly.

3. Three UML Collaboration diagrams, one each for the client, intermediate host, and server (see slides 45 and 46).

	1	2	3	4
15%	Some attempt made.	At least one collaboration diagram which includes Sockets and Packets and correct sequencing OR three diagrams, but missing Packets and Sockets.	Three collaboration diagrams, missing two or more from the right or the Diagram is inconsistent with others (class, code)	Three collaboration diagrams, one for each part. 1) includes Socket and Packet classes. 2) Includes stereotypes for packet creation, 3) includes operations for send and receive and 4) labels any magic numbers. Diagram is consistent.

4. One or more UML Class diagrams showing your system. The class diagram should be consistent with the collaboration diagram and all names should match between the two. All classes identified in the collaboration diagrams should be present.

	1	2	3	4
10%	A class diagram.	Class diagrams sort of reflect the code submitted in some form or another.	Class diagrams for code submitted. Missing important attributes or names don't match code (consistency).	Class diagrams for client, intermediary and server. Class names match code, collaboration diagram and UCM. Includes important attributes and associations.

5. The source code for all three parts of the system, as well as any files required to run these files in Eclipse.

	1	2	3	4
25%	One of four->	Two of four->	Three of four->	1) Properly indented, 2) well commented, 3) meaningful names, 4) names match class, collaboration and UCM diagrams

6. And finally, running the code.

	1	2	3	4
30%	Builds successfully but crashes and burns with no output.	Crashes and burns with some output.	Runs but with incorrect output at some point.	Code runs flawlessly and handles case 11 as described.