CPTS 464 Project 2 Write up

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For this project we were to devise a simple simulation of the Pullman transit system. At first glance this didn't seem to be too hard for me, but as I got into it, I found a few little things that were actually quite difficult.

First, what I learned. What I really learned was the in and outs of a publish-subscribe system. I hadnt ever gave thought to this type of system, but after this project I can actually see where it can easily be implemented and used. I see it in the apps I use on my phone, or just in the general world.

Challenges (or not challenges?)

First, starting with the easy stuff, I have been programming in Java for many years now, so there wasn't a language barrier. And most of the issues with the RTI software were solved in project 1.

I had a solution approach upon first reading the assignment. I had thrown together some code, and attempted to get it to work, but I was playing the part of Frankenstein, and my monster (the code) was not happy. I was having issues getting a single subscriber to sub to a multiple messages (the operator Subscriber) but I found a way around this by actually creating multiple listeners, and multiple executables, like I did with creating multiple publishers (for position and accident), which I didn't do before. As you will see later in another PDF, the Operator (Which is named “Accident Subscriber” because I forgot to change the name), Pasenger1 and Passenger2 are three different executables that I run after I have ran my publisher. I had been stuck on this issue for about 2 days, clumping code together, but after it was solved, everything went smoothly. So that issue was easily solved.

Final Status of Submission

I was able to get everything in the project description working, and upon seeing everything work, I was ecstatic! You can see the processes working on the pdf with the images.

I actually finished this project about 1-2 weeks before the original (April 26th) Due date, so I haven't had to think about it for a while. Any extra credit points for that? ;)

Thank you for this class! I actually learned a lot, and am seeing Distributed Systems everywhere I look now.

Have a great summer!

Stacy Schauls