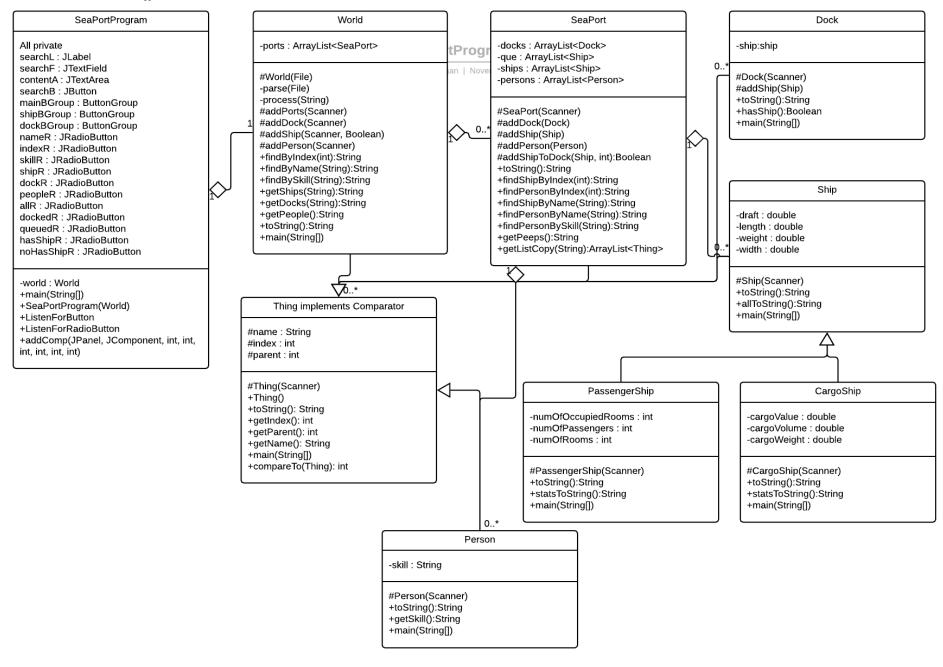
Zachary Finnegan 11/2/2019

Project 1

CMSC 335

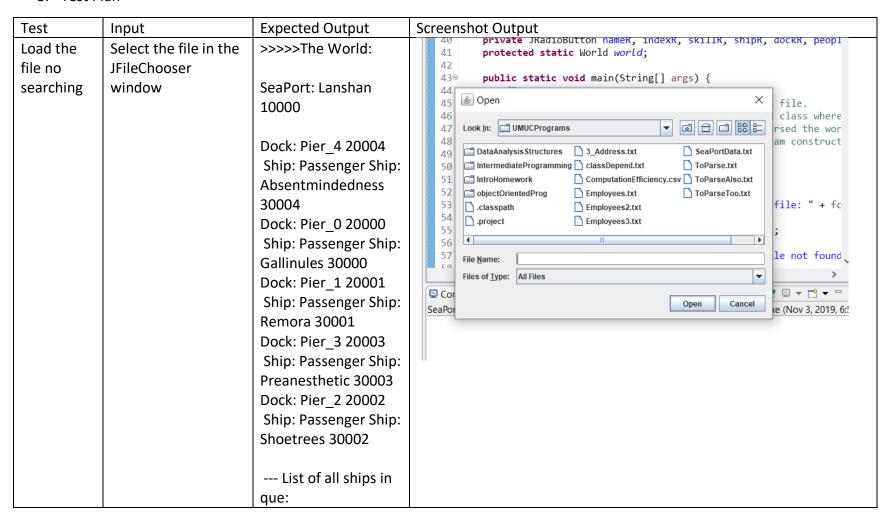
1. Design

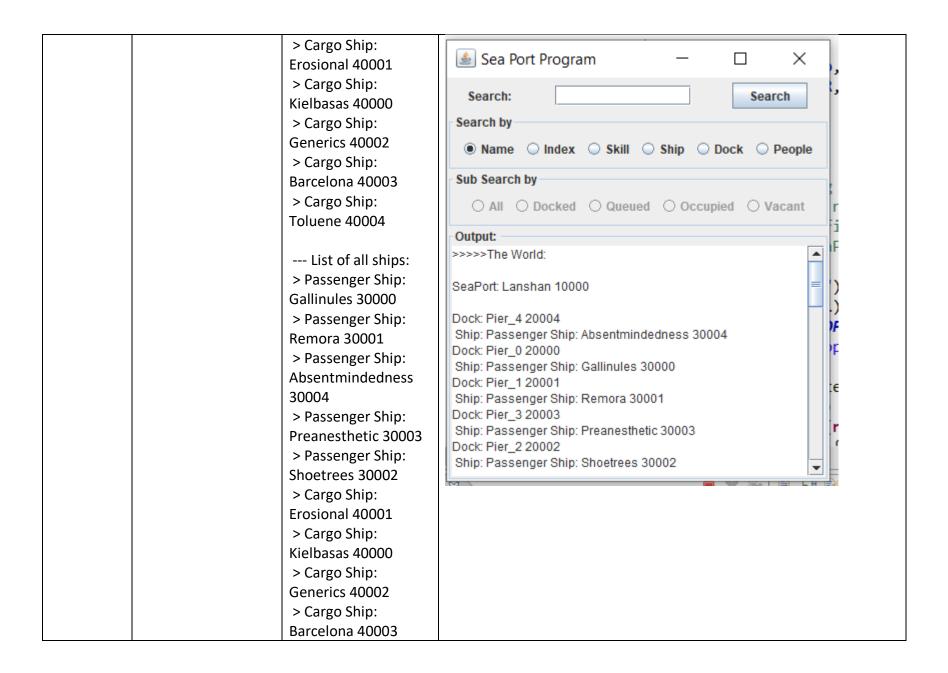


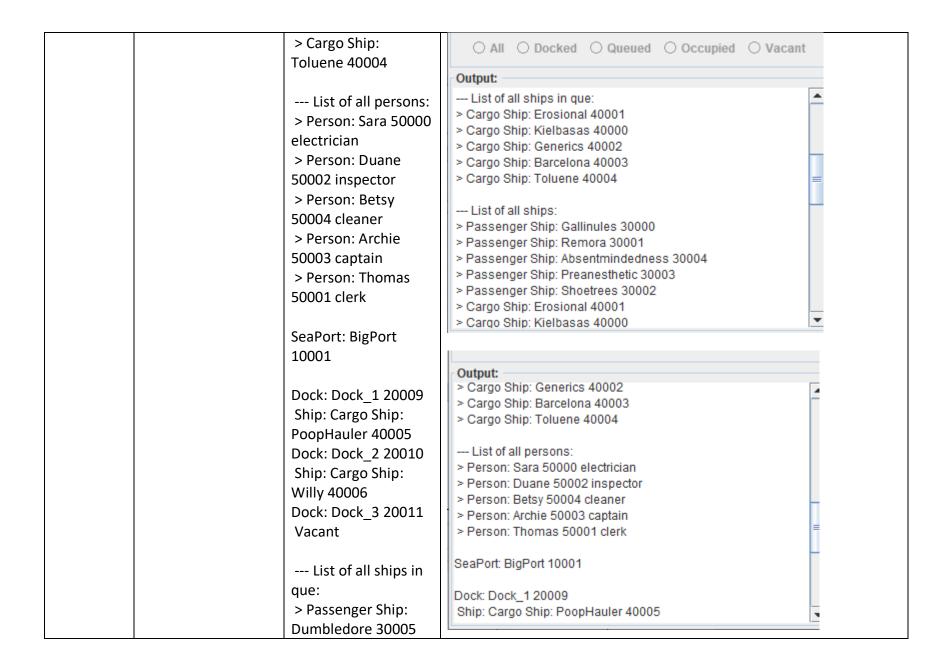
2. User's Guide

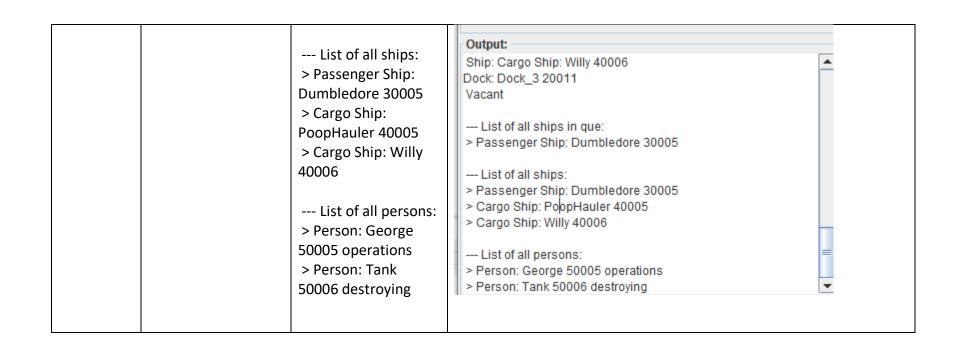
a. Add the package to your IDE path. Import it to your IDE and then press run. Select the SeaPortData.txt when the JFileChooser pops up and then search to your hearts content.

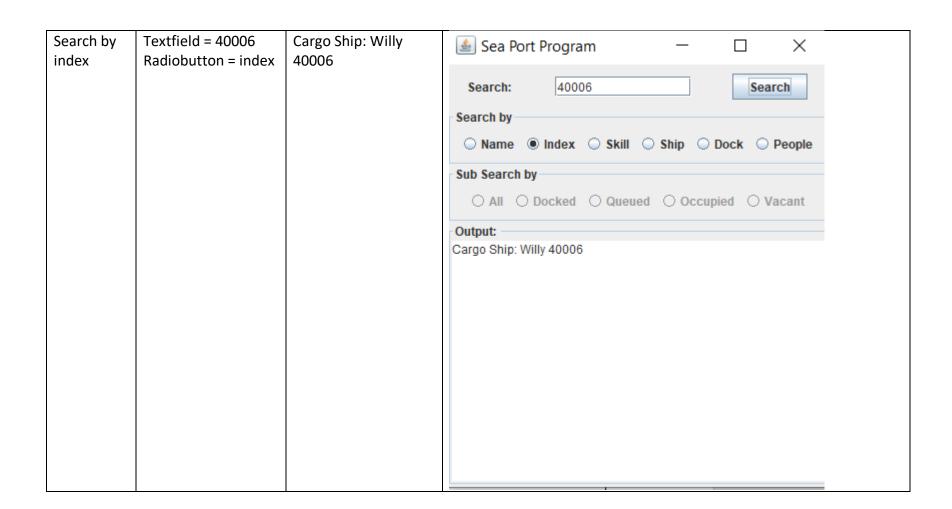
3. Test Plan

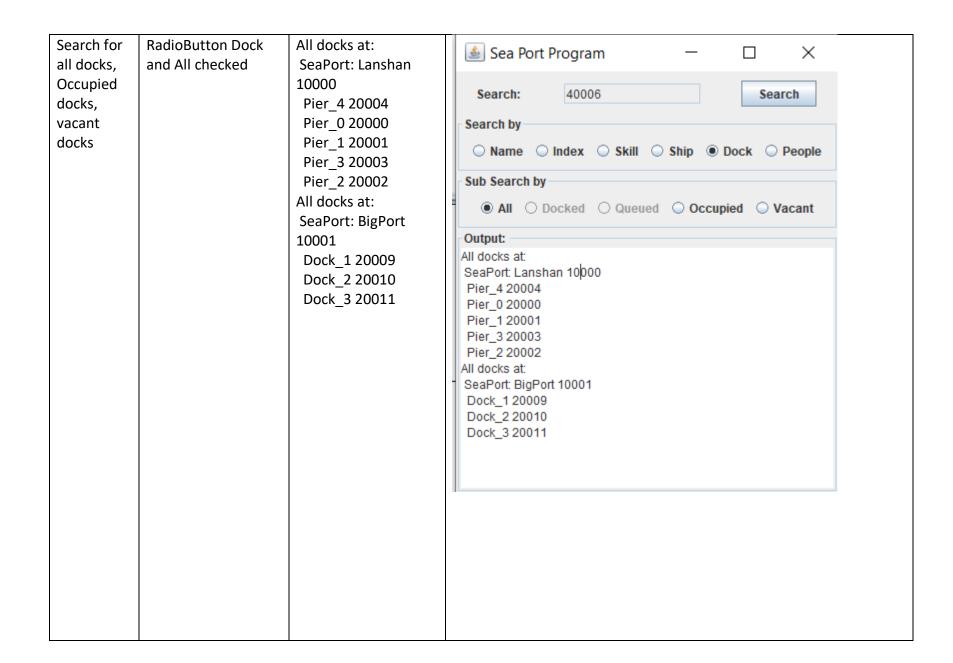


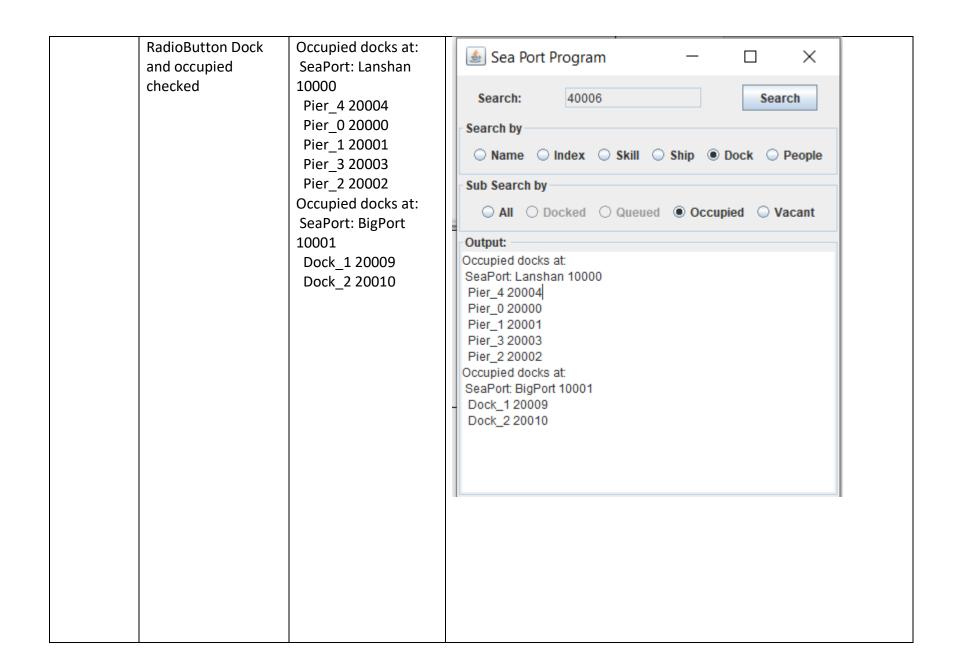


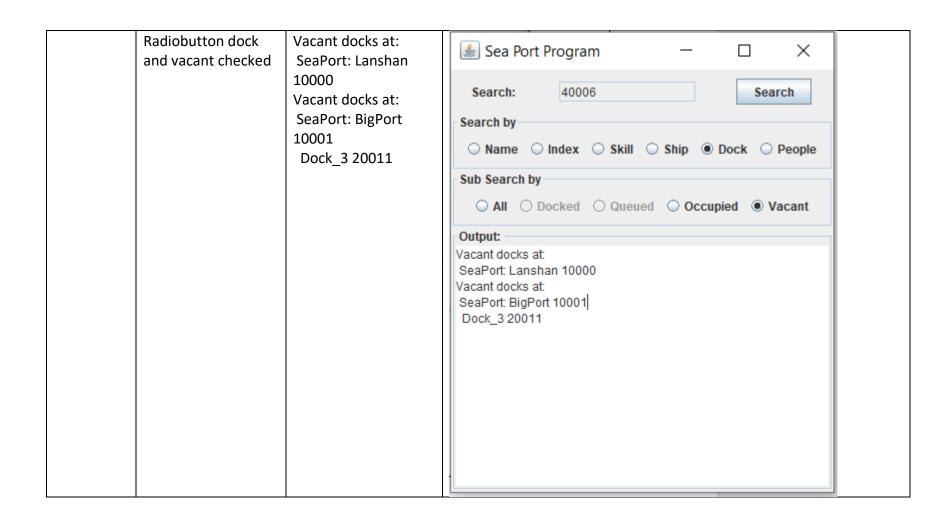


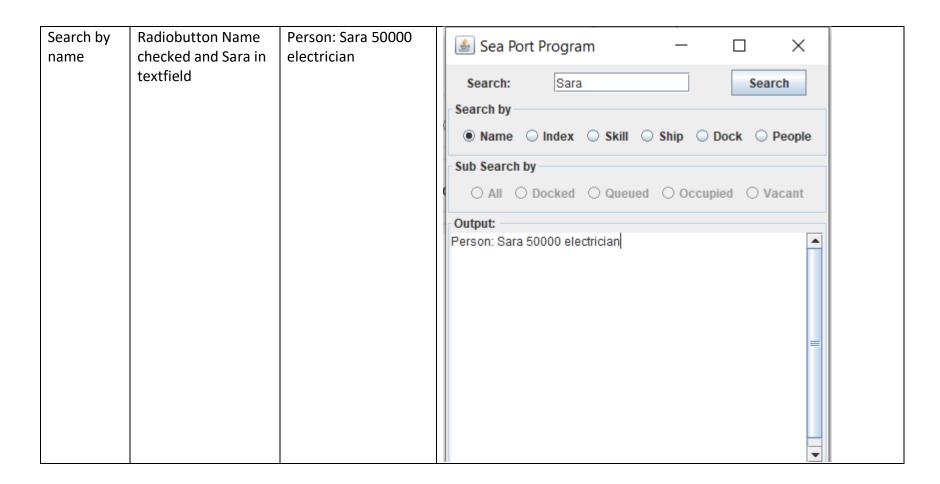












4. Lessons Learned

The only new things from this assignment were the JScrollPane and the JFileChooser. I probably could have incorporated some lambda functions. Especially with the actionlisteners. Unfortunately I had already created normal action listeners before seeing that. Maybe I will tweak that part for project two. JFileChooser was super handy though.

I think my biggest issue with my implementation is the search functionality. It feels really clunky and involves a lot of different functions and a lot of lines of code. I am certain there is a better way to do it. I tried a couple of different methods.

One, my least favorite, is a series of function calls to deeper classes. For instance the SeaPortProgram will call a function in world which will call a program in SeaPort which will search the list in SeaPort. Method two is calling a function in World from SeaPortProgram which requests a copy of the needed list from the SeaPort class. That one allows for fewer functions I think but I am still not a big fan of it. I am probably missing an obvious solution. I think the next project involves different container classes. That might make searching easier/less of a hassle. I am looking forward to it.

There is definitely a lot more search functionality I could implement. I would probably use combo boxes if I added more. They allow for more options while taking up less space than radiobuttons. At some point I should do something with the other fields of the ship classes. Other than that I am fairly happy with my programs end product.