

Dyllan Hankins
ESOF 322

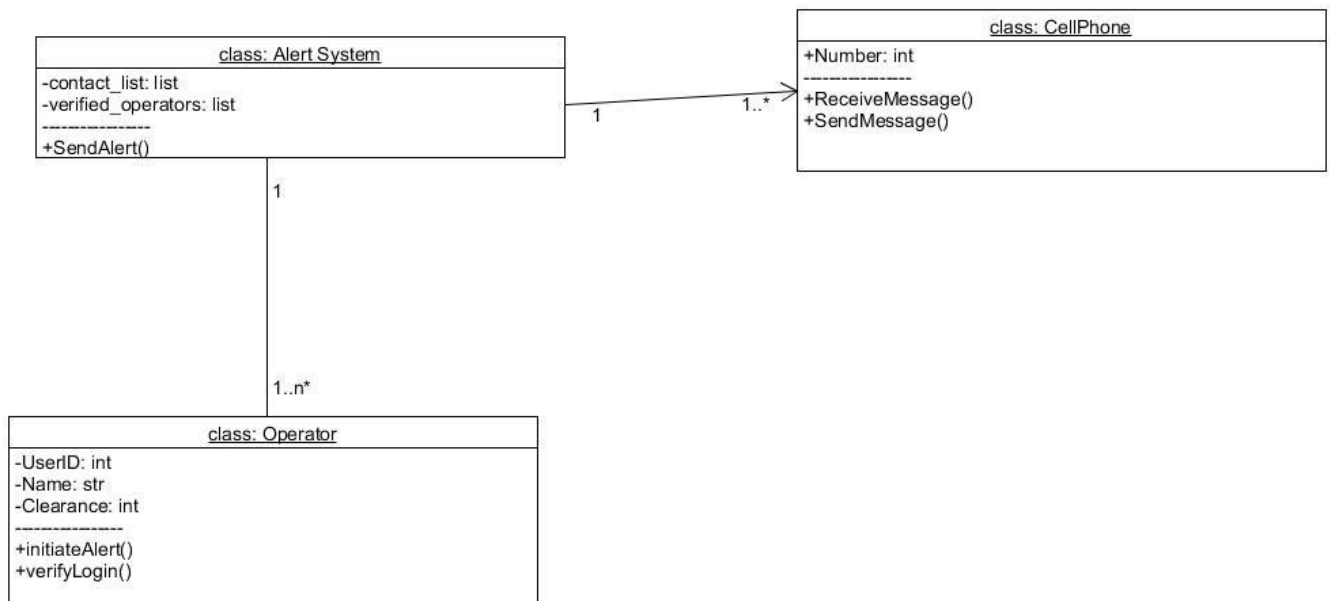
Assignment 3

1:

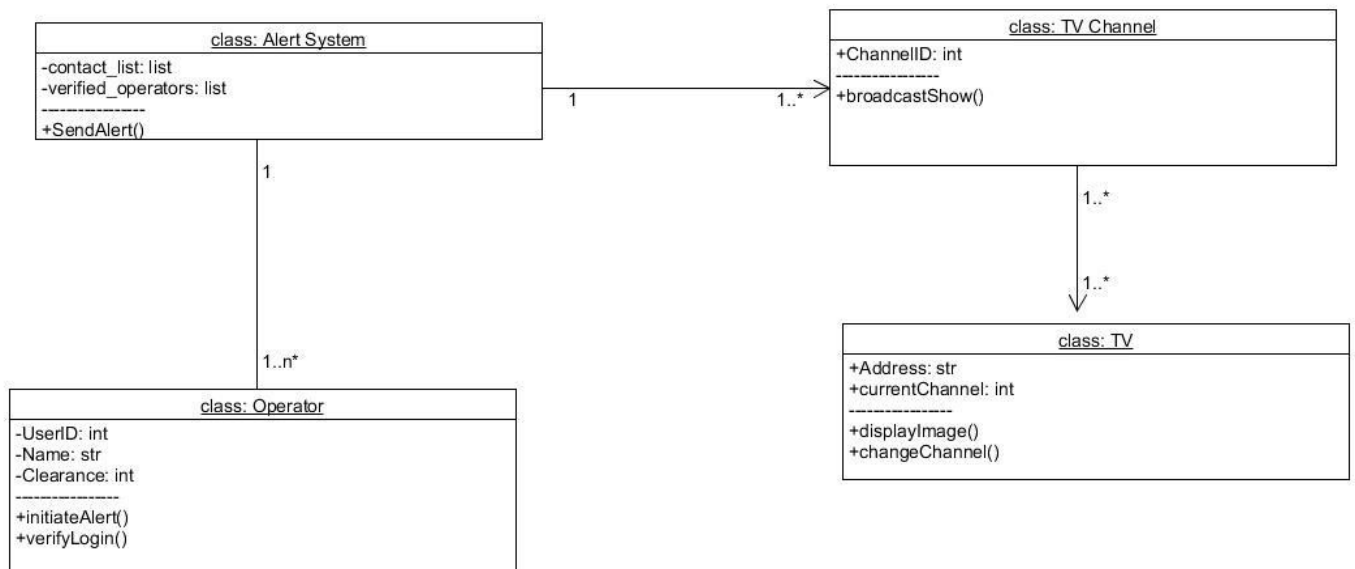
From previous assignment:

- A) The ballistic missile alert system shall communicate with all members of the Hawaiian islands who own a cellphone
- B) The ballistic missile alert system shall send messages over television
- C) The ballistic missile alert system shall send messages over the radio

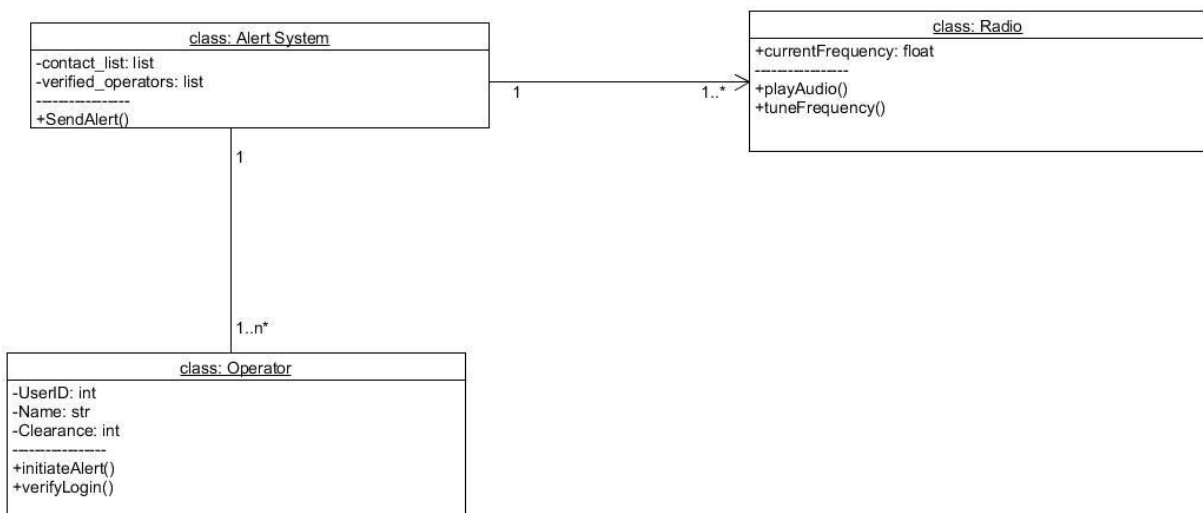
Class Diagram 1



Class Diagram 2



Class Diagram 3



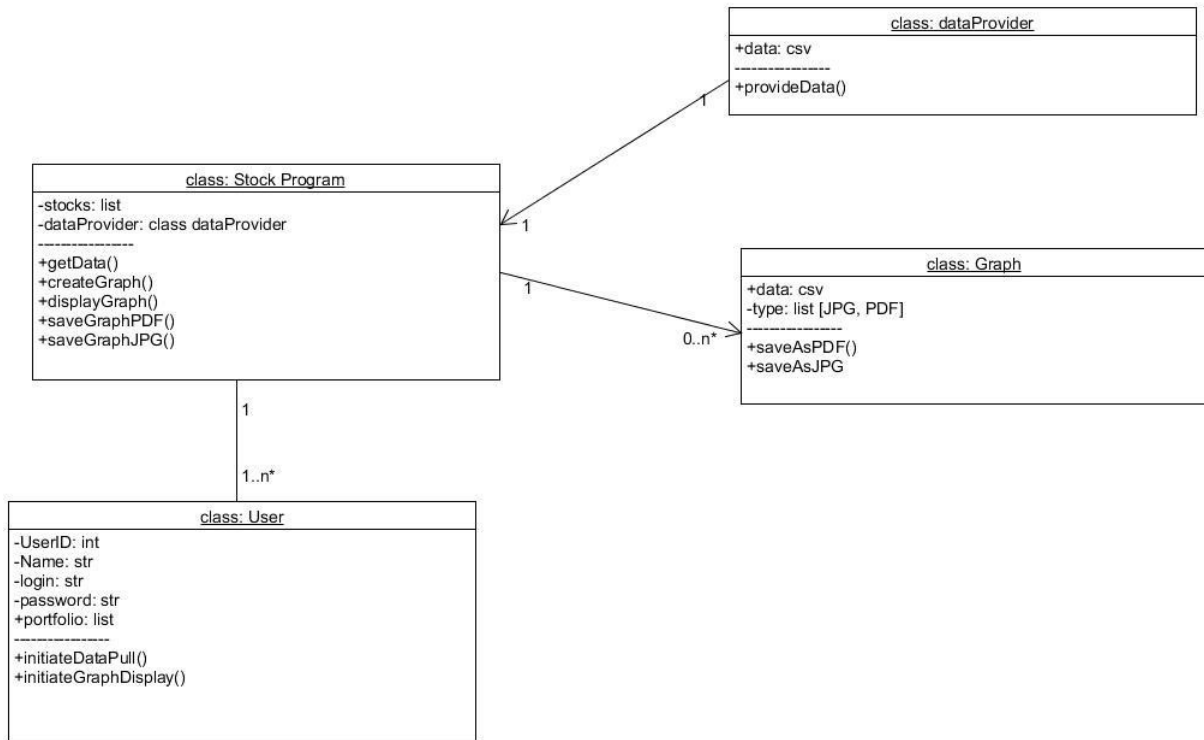
2:

Sub User Stories From previous assignment:

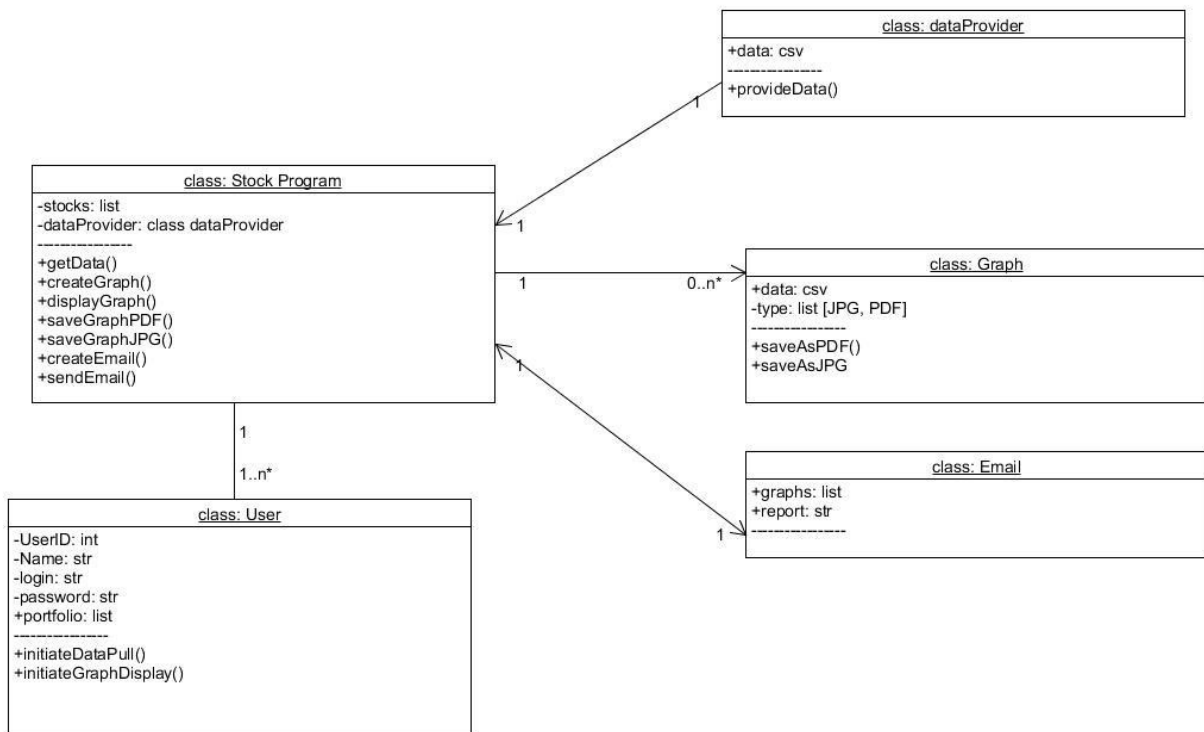
- A) As someone creating reports on stocks, I want to save graphs and charts as images or PDFs so that I can use these outputs in the reports I am writing.
- B) As someone examining the stocks I already own, I want to view related graphs and charts about these stocks so I can keep tabs on their performance
- C) As someone who is thinking of buying new stocks, I want to compare multiple stocks graphically, so that I can accurately compare them and make informed purchasing/trading decisions

- D) As someone who is busy and has a stock portfolio, I want to get a brief email each morning about the health of my portfolio so that I can keep tabs without spending too much time
- E) As someone who wants to run their own data analysis on stocks and their associated metrics, I want to be able to download the fluctuation and metric data into an easily usable format, so that I can run my own analysis

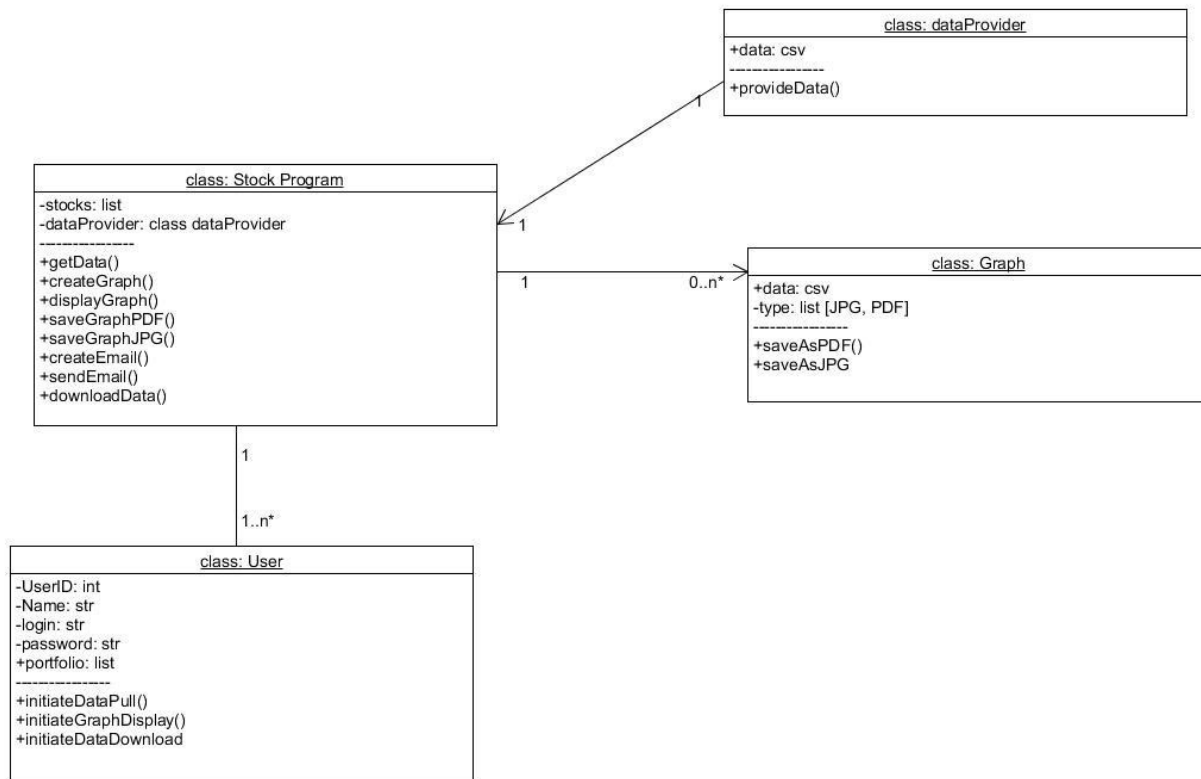
Class Diagram for User Stories 1-3



Class Diagram for User Story 4



Class Diagram for User Story 5



3:

- The first approach converts nouns and noun phrases into candidate classes. The second approach takes the nouns, and checks if they fall into a few classic categories of classes (e.g. tangibles, roles, concepts, etc.). The third approach is goal-oriented, wherein the classes are defined as needed to illustrate the relationships and goals between the actors in the system.
- I chose the standard first approach, because it seemed the most straightforward and applicable to the above use cases
- I chose the same approach for question 1 as well, because again it seemed the most straightforward and pertinent.
- I didn't know that there were multiple methodologies and procedures for converting use cases into classes. I just assumed you did it by "feel" without a defined procedure.