
60% CS 383 Report

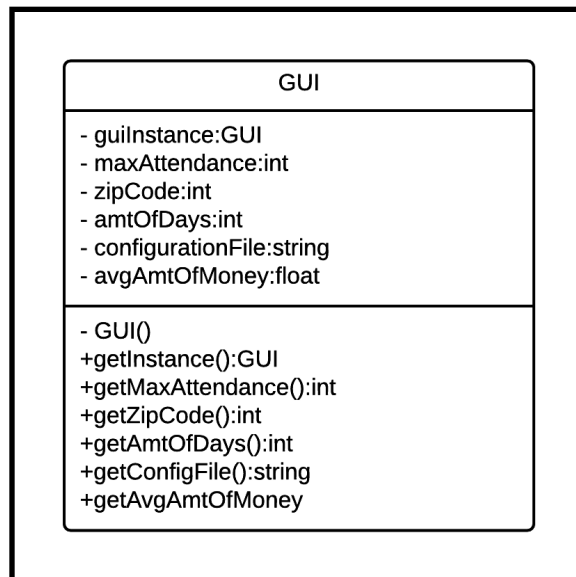
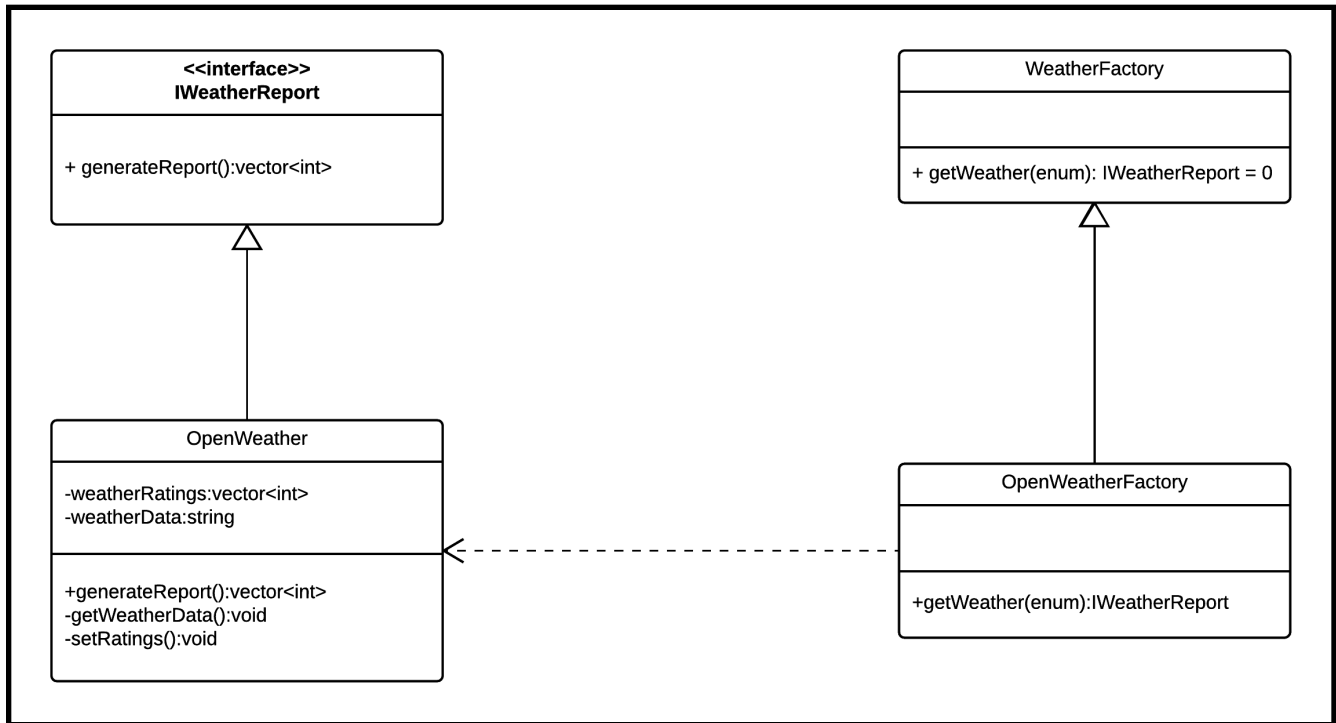
October 27, 2017

Patrick A. VanVorce

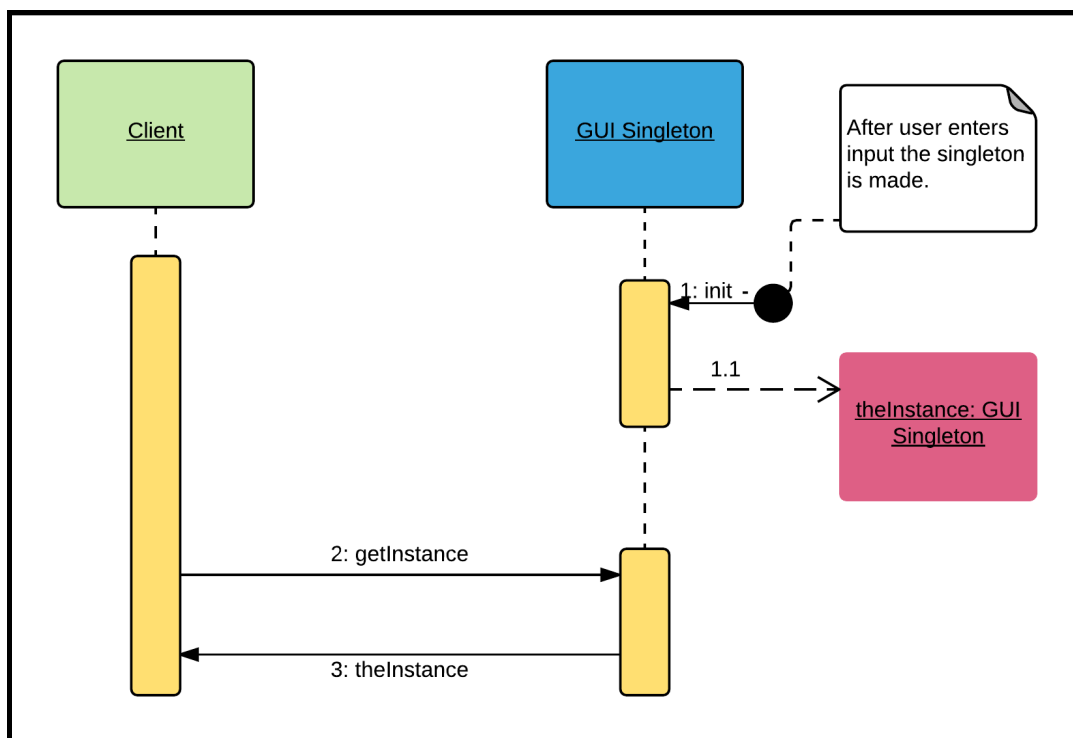
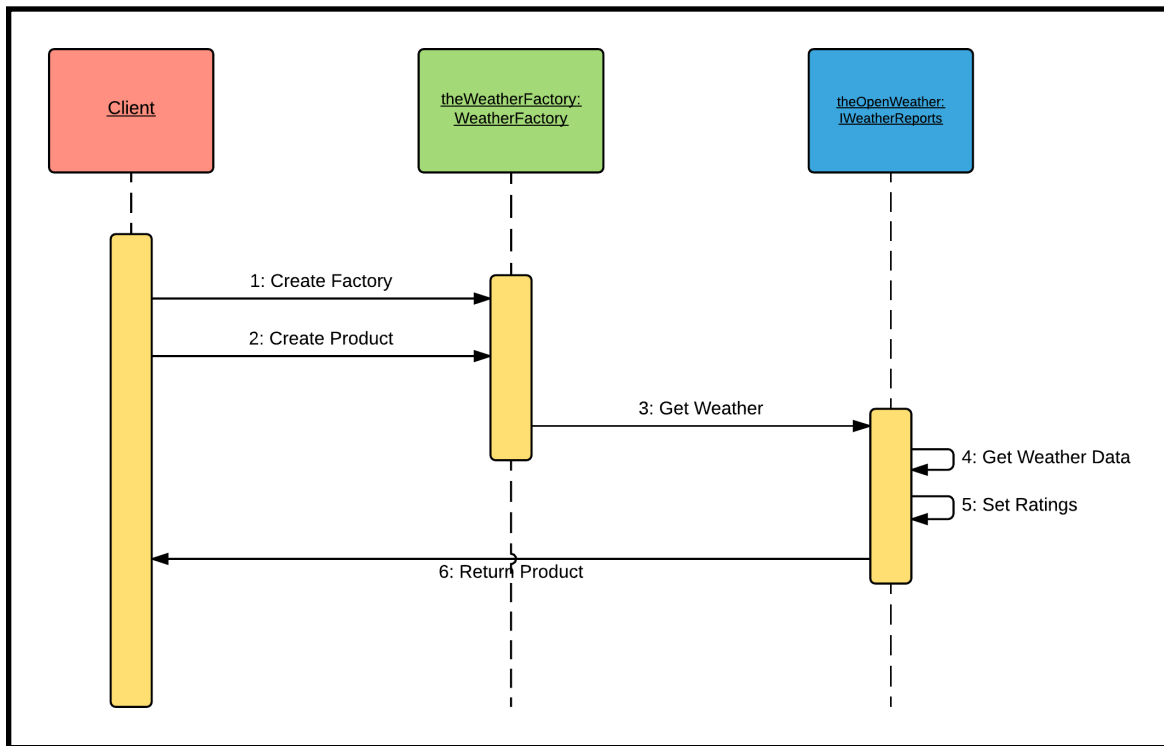


**My features included the Graphical User Interface and generating a weather report based on zip code and an amount of days.

Class Diagrams



Sequence Diagram



Gantt Timeline

Task Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Design User Interface																					
Implement Weather Code																					
Configure UI Front End to Backend Code																					
Test & Debug All Code																					

Test Plan For Weather Code Unit

Method Name	Sample Input	Expected Output/ Behavior	Notes
getWeather(int)	Valid Struct Member	Correct object instantiation	
getWeather(int)	Invalid int amount	Defaults to create OpenWeather object	Could instead throw an exception, will consider later
getWeather(int)	Different Data types	Exception	
generateReport()	-	Vector of ints	
getWeatherData()	-	sets weather data to contain a JSON string	Interacts with private member
setRatings()	-	sets weather ratings to have values 1-3	Interacts with private member

Test Plan for GUI Singleton

For the singleton, all test cases will follow similar test:

- If a valid input (in the correct domain) is entered, then singleton will store this value in the corresponding data member.
- If an invalid input is entered, the code will default set the values to null if a reference type, 0 if a numerical amount, etc. (Normal default values found in C++ language definition/specification)
- If I get the time, I plan to make the GUI responsive enough to just not allow the user press enter with invalid inputs (this a nice to have feature, so it isn't high priority)