NNguyen - Assignment 2

Test plan/screenshots

Running from command line/IDE

Case 1



Case 2

Case 3



```
→ Assignment2 git: (main) x od /Users/nick/Documents/NguyenN_Vault/Code/learning-java/cmsc-203/Assignment2; /usr/bin/env /Library/Java/Java
VirtualMachines/jdk-20.jdk/Contents/Home/bin/java -agentlib:jdwp=transport=dt_socket,server=n,suspend=y,address=localhost:53812 —enable-prev
iew -XX:5howCodeDetatilsInExceptionMessages -cp /Users/nick/Library/Application\ Support/Code/User/workspaceStorage/72lea899966370c1379937832
a9efa77/redhat.java/jdt_ws/Assignment2_5d5a2dd7/bin PatientDriverApp
Patient Info:
Name: Nick Theo Smith
Address: 123 Sample Street Rockville Maryland 20874
Emergency Contact: John Green 301-532-6273

Procedure: IV
Procedure: IV
Procedure Date: 2023-09-11
Practitioner: Dr. Berry
Charge: 600

Procedure: Heart Transplant
Procedure Date: 2024-01-05
Practitioner: Dr. Berry
Charge: 600

Procedure: EEG
Procedure Date: 2023-10-06
Practitioner: Dr. Nguyen
Charge: 500

Total charges: $1700

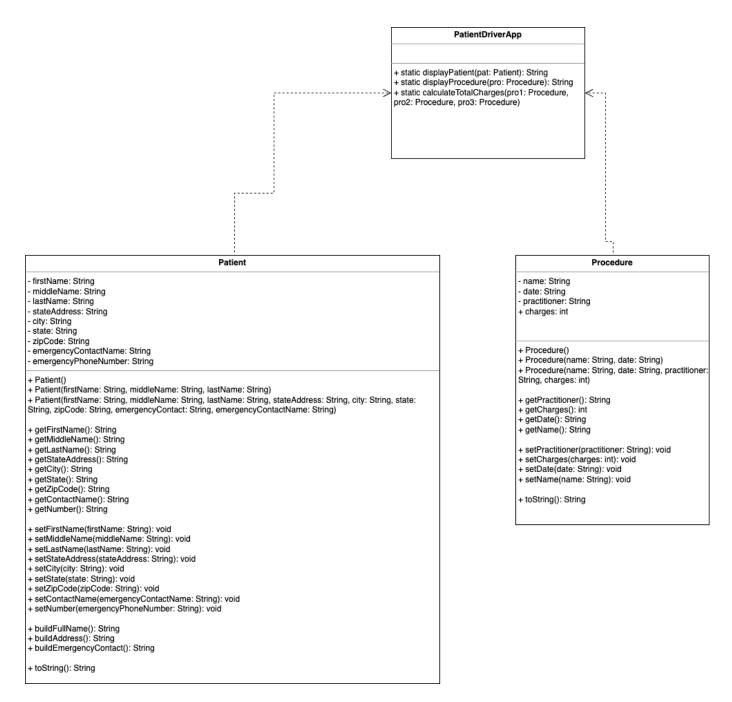
Student Name: Nicholas Nguyen
MC#: M21131583
Due Date: 2023-09-25
```

Case 4

In Github



UML diagram



Pseudocode

Patient

- instance variables for first name, middle name, last name, state address, city, state, zip code, emergency contact name, and emergency phone number
- no-arg constructor
- · parameterized constructor with first name, middle name, and last name
- parameterized constructor with all attributes
- · getters and setters for every attribute
- buildFullName() method that returns full name (uses getter methods)
- buildAddress() method that returns complete address with address, city, state, and zip code variables (uses getter methods)
- buildEmergencyContact() method that returns contact name and number (uses getter methods)
- toString() method (uses build methods)

Procedure

• instance variables for name, date, practitioner, and charges

- · no-arg constructor
- parameterized constructor with name and date variables
- parameterized constructor with all variables
- · getters and setters for all variables
- toString() method using getters

PatientDriverApp

- · main method
 - Patient object
 - three Procedure objects
 - print info using display methods and calculate total charges method (implemented after)
- displayPatient() method with Patient object parameter that returns Patient class toString()
- displayPatient() method with Procedure object parameter that returns Procedure class toString()
- calculateTotalCharges() with three Procedure parameters that returns the sum of the procedure charges with the getCharges() method from its class

Questions to answer

Write about your Learning Experience, highlighting your lessons learned and learning experience from working on this project.

I had a pretty good learning experience with this project. I learned that persistence really helps in figuring out code. Although it may be frustrating debugging code, the feeling when you finally figure out the problem(s) is great.

What have you learned?

I learned how to properly write a program using multiple classes. I also learned how to implement overloaded constructors (this is something I did in my AP Java course, but I was glad to get more practice in).

What did you struggle with?

I struggled with getting my code to compile. Using command line to get my code to compile didn't seem to work properly, so I ended up running it with the help of Visual Studio Code. By default, running my code through VS Code compiles every <code>.java</code> file, the <code>.class</code> files landing in the <code>bin</code> directory.