**CMSC203 Assignment 2 Implementation (Documentation)**

Class: CMSC203 CRN 21955

 Program: Assignment #2

Instructor: Gary C. Thai

 Summary of Description: Project #2 – Patient

 Due Date: 10/04/2024

 Integrity Pledge: I pledge that I have completed the programming assignment independently.

 I have not copied the code from a student or any source.

**Patient**

Create Patient class

Create no-arg constructor

Create Parametrized constructors for patient full name

Create Parametrized constructors for all patient attributes

Create Accessor method to get patient information

Create Mutators (setters) to set patient information

Create a method to build and concatenate patient information

Display patient information

**PatientDriverApp**

Create Accessor method to set procedure charges

Create a scanner object to read from the keyboard

Enter patient information

Close the keyboard

Create a patient object

Create three Procedure objects using different constructors

Calculate total charge for the three procedures

Display patient information

Display procedure information

Print student information

Create a method to display patient information

Create a method to display procedure information

Create a method to calculate total charges

**Procedure**

Create No-arg constructor

Create parametrized constructor for name and date of procedure

Create parametrized constructors for all attributes

Create Accessor Method to get procedure and practitioner information

Create Mutators (setters) to set procedure and practitioner information

Display procedure information

**Pseudo Code**

**A screenshot of a computer

Description automatically generated**

**Comprehensive Test Plan 1**

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**Comprehensive Test Plan 2**

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**Comprehensive Test Plan 3**

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**Case 1**

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**Case 2**

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**Case 3**

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

Participating in this assignment has offered me a valuable and enriching learning opportunity to understand the use of JUnit in Eclipse, as well as to develop a UML Diagram for upcoming projects in this course.

What have you learned?

Acquired knowledge in utilizing JUnit and developing a UML diagram for this project, as well as in creating a program to illustrate a medical procedure alongside patient information.

What did you struggle with?

Faced difficulties while trying to utilize JUnit in Eclipse.

What would you do differently on your next project?

Review the tutorials available in the course materials that demonstrate how to utilize JUnit within Eclipse.

What parts of this assignment were you successful with, and what parts (if any) were you not successful with?

I successfully created three Java files for project #2, developed a UML diagram, and utilized JUnit. The only challenge I encountered was learning how to implement JUnit within Eclipse.

Provide any additional resources/links/videos you used to while working on this assignment/project.

I relied solely on the classroom textbook and the resources provided in class, without utilizing any external materials, links, or videos.

**Lessons Learned**

|  |  |  |  |
| --- | --- | --- | --- |
| **#** |  | **Y/N** | **Comments** |
|  | **Assignment files:** |  |  |
|  | * FirstInitialLastName\_Assignment#\_Moss.zip | **Yes** | The folder includes a Moss file. |
|  | * FirstInitialLastName\_Assignment#.docx/.pdf | **Yes** | Formulated a Word Document with the essential information. |
|  | * Source java files | **Yes** | Java source files are included. |
|  | **Program compiles** | **Yes** | The project successfully compiles and executes without any errors. |
|  | **Program runs with desired outputs related to a Test Plan** | **Yes** | The project functions and generates data associated with the test plan. |
|  | **Documentation file:** |  |  |
|  | * Comprehensive Test Plan | **Yes** | Developed a comprehensive test plan outlining the expected inputs and corresponding outputs. |
|  | * Screenshots related to the Test Plan | **Yes** | Images from the Test Plan are presented. |
|  | * Screenshots of your GitHub account with submitted Assignment# (if required) | **Yes** | Images from GitHub is necessary and presented. |
|  | * UML Diagram (if required) | **Yes** | UML Diagram is necessary and displayed. |
|  | * Algorithms/Pseudocode (if required) | **Yes** | Pseudocode is necessary and displayed. |
|  | * Flowchart (if required) | **No** | Flowchart is not necessary and is not displayed. |
|  | * Lessons Learned | **Yes** | Lessons Learned has been finalized and presented. |
|  | * Checklist is completed and included in the Documentation | **Yes** | Checklist has been finalized with all necessary details. |

**Check List**