**Finding Hospitals**

**Graphical user interface

Description automatically generated**

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**1: Introduction:**

For making the site reliable, scalable, accessible and sustainable Quality Assurance (QA) team must adopt and maintain the coding standards which allows code readability and makes it easier to understand.

**1.1: Scope:**

The practices of targeted towards code readability and maintenance of coding standards and maintaining standard Indentation and naming conventions which demonstrate the knowledge of professionalism.

* Writing Java code that is easy to maintain and easy for demonstrations.
* Increase code usability.

**2: Source File**

The header should be followed by the package and import statements and then the documentation comments exactly in the following sequence and indented to the same level.

**2.1: Filename**

The source file name consists of the case-sensitive name of the top-level class it contains, plus the .java extension.

**2.2: Source File Structure**

A source file consists of, in order:

●Package Name.

●Imports

●Class definition

**2.3: Indentation**

1.There must be a space after giving a comma between two function arguments.

2.Proper indentation should be there at the beginning and end of each block in the program.

3.All braces should start from a new line and the code following the end of braces should also start from a new line.

**2.4: Naming Conventions**

* Local variables and Global variables should be named using

camel case lettering starting with a small letter. (e.g., localData).

* Constant Data should be named using upper case letters only. (e.g., CONSTDATA).
* Avoid use of digits for naming variables.
* The names of functions should be written in camel case starting
* The name of the function must describe the use of the function.

**2.5: Comments**

**Block comments** may be used at the beginning of each file and before each method or within methods.  A block comment should have a blank line before its start.

**Single-line comments** can appear on a single line indented to the level of the code that follows. If a comment cannot be written in a single line, it should follow the block comment format. A single-line comment should be preceded by a blank line

**3: Exception Handling**

You must follow the below Java coding guidelines for implementing effective exception handling.

1-Always write a catch block for handling exceptions.

2-Make sure to add a logging message or the stack trace in the catch block.

3-Avoid catching the general exception and have a specific exception.

4-The clean-up code should be added in the <finally> block.

5-This provides a single location for the clean-up, and it is guaranteed to run.

**4: Tools and Plugins**

* Selenium with Java
* Maven
* TestNG
* Apache POI
* Jenkins

**4.1: Back up**

GitHub for Source Code Management & Backup