MicroService Checkstyle Code format

Checkstyle

Checkstyle is a tool which analyses our java code and verifies whether the coding standards are meeting the expected quality or not.

We have faced few errors while developing and testing in checkstyle environment, those are listed below and solution has been provided for the same.

Error whitespace FileTabCharacter File contains tab characters (this is the first instance).

or

Error indentation Indentation 'member def modifier' has incorrect indentation level 8, expected level should be 4.

Solution:

This errors occurs when indentation were not proper. To resolve this error follow the below steps:

Step-1: Go to Windows > Preferences > Java > Code Style > Formatter > Click New Button > Give profile Name > Choose dropdown as Java conventions [built-in] > click OK

Step-2: Choose active profile dropdown as the created formatter.

Step3: Click Edit and Choose Tab Policy dropdown as Space only and Click OK.

> *Note: Intendation size: 4 and Tab size: 8*

Step-4: Apply and close.

Step-5: Press **Ctrl + Shift + F** to format the respective classes.

Error javadoc MissingJavadocMethod Missing a Javadoc comment.

Solution:

This errors occurs when we are not commenting for the respective methods or classes. To resolve this error follow the below steps:

Step-1: Go to respective methods or classes from where the error thrown.

Step-2: give the proper comments above the respective methods by using multi-commenting mechanism.

Eg:

/**

* purpose of the method.

* **@param** param name

* **@return** what it returns

*/

Error regexp RegexpSingleline Line has trailing spaces.

Solution:

This error occurs when there is a empty line in the multi-comment section.

Eg:

/**

* purpose of the method.

*

* **@return** what it returns

*/

Remove extra line to resolve the issue.

Error coding HiddenField 'Field' hides a field.

Solution:

This error occurs when there is a same name for the local and instance variable in the class.

Eg:

public ModelClass methodName(String name) {

this.name = name;

return this;

}

To resolve this issue, try changing the local variable name. Both instance and local variable should not be same.

Error javadoc JavadocStyle First sentence should end with a period.

Solution:

This error occurs when there is no full stop[.] at the end of the commented line.

Eg:

/**

* purpose of the method.

*/

To resolve this issue add full stop[.] at end of the line.

Error sizes LineLength Line is longer than 140 characters.

Solution:

This error occurs when the java code exceeded to 140 character.

To resolve this issue split the lengthy code to next line with 4 spaces.

> *Note: Do not use Tab spaces.*

Error coding SimplifyBooleanExpression Expression can be simplified.

Solution:

This error occurs when we are not simplified the boolean conditions.

Eg:

if (test == true)) {

 //block of code

}

To resolve this issue use the above code as below

if (test) {

 //block of code

}

Error naming LocalVariableName Name 'InlineResponseAttendance' must match pattern '^[a-z][a-zA-Z0-9]*$'.

Solution:

This error occurs when both class and object names are same.

Eg: Test Test = **new** Test();

To resolve this issue try changing the object name to any case conventions.

Eg: Test test = **new** Test();