To create a custom rule, create a class that extends one of the following IRules in the table below. Once one the classes below is extended, override the necessary methods as defined by the IRule interface. For each rule that is created, add an entry to Rules.xml specifying the class name of the custom rule and the type as defined by the RuleType enumeration. The following is a sample Rules.xml file:

<Rules>

<Package name="cc.custom.rules">

<Rule name="ConstantsAreAllUppercase" type="VariableDeclaration" />

<Rule name="MethodLength" type="MethodDeclaration" />

</Package>

</Rules>

Rules can be placed in any package structure, just be sure to specify the package name that contains any rules in Rules.xml (as seen above).

|  |  |
| --- | --- |
| Type (Parent Type) | Use |
| RuleType | Enumeration that specifies the types of rules that are currently supported by the Code Coach Engine.  The current supported rules types are:  VariableDeclaration  MethodDeclaration  IfStatement  WhileStatement  ForStatement |
| IRule | Interface that defines what a custom rule should look like.  Defined methods:  String getName()  String getHint()  RuleResult run() |
| ForStatementRule (IRule) | Extend this rule when writing a rule that needs to run against for loops. |
| IfStatementRule (IRule) | Extend this rule when writing a rule that needs to run against if statements. |
| MethodDeclarationRule (IRule) | Extend this rule when writing a rule that needs to run against methods. |
| VariableDeclarationRule (IRule) | Extend this rule when writing a rule that needs to run against a class variable declaration. |
| WhileStatementRule (IRule) | Extend this rule when writing a rule that needs to run against a while loop. |