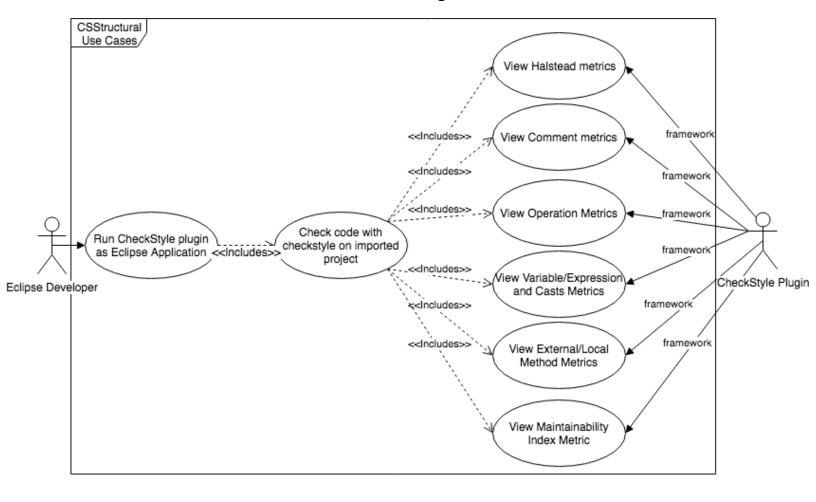
Use Case Diagram



Run CheckStyle Plugin as Eclipse Application

Actors:	Eclipse Developer
Goal:	 Run the CheckStyle plugin on java file
Preconditions:	Java file must exist
Scenarios:	User wants to check structural metrics
Exceptions:	None

Check Code with CheckStyle on Imported Project

Actors:	Eclipse Developer
Goal:	 Use the CheckStyle plugin to find all the structural metrics
Preconditions:	Java file must exist
	 CheckStyle plugin installed
Scenarios:	 User wants to check structural metrics
Exceptions:	• None

View Halstead Metrics

Actors:	Eclipse Developer, CheckStyle Plugin
Goal:	Output Halstead Length
	Output Halstead Vocabulary
	Output Halstead Volume
	Output Halstead Difficulty
	Output Halstead Effort
Preconditions:	Java file must exist
	 User must have run CheckStyle plugin
Scenarios:	User wants to check structural metrics
Exceptions:	• None

View Comment Metrics

Actors:	Eclipse Developer, CheckStyle Plugin
Goal:	Output number of comments
	Output number of lines of comments
Preconditions:	Java file must exist
	User must have run CheckStyle plugin
Scenarios:	User wants to check structural metrics
Exceptions:	None

View Operation Metrics

Actors:	Eclipse Developer, CheckStyle Plugin
Goal:	Output number of operands
	 Output number of operators
Preconditions:	Java file must exist
	 User must have run CheckStyle plugin
Scenarios:	User wants to check structural metrics
Exceptions:	• None

View Variable/Expression and Casts Metrics

Actors:	Eclipse Developer, CheckStyle Plugin
Goal:	Output number of expressions
	 Output number of variable declarations
	Output number of casts
Preconditions:	Java file must exist
	 User must have run CheckStyle Plugin
Scenarios:	User wants to check structural metrics
Exceptions:	• None

View External/Local Method Metrics

Actors:	Eclipse Developer, CheckStyle Plugin
Goal:	 Output number of methods called from external class
	 Output number of methods called from same class
Preconditions:	Java file must exist
	 User must have run CheckStyle Plugin
Scenarios:	User wants to check structural metrics
Exceptions:	None

View Maintainability Index Metrics

Actors:	 Eclipse Developer, CheckStyle Plugin
Goal:	Output Maintainability Index
Preconditions:	Java file must exist
	 User must have run CheckStyle Plugin
Scenarios:	 User wants to check structural metrics
Exceptions:	• None