

Remove Duplicate Code From Constructors Refactoring

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Chapter 1

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Chapter 2

Class Index

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3.1 File List

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Chapter 4

Namespace Documentation

4.1 Package edu

Packages

- package [illinois](#)

4.2 Package edu.illinois

Packages

- package [canistelCassabanana](#)

4.3 Package edu.illinois.canistelCassabanana

Packages

- package [utility](#)
- package [visitors](#)

Classes

- class [Activator](#)
- class [RemoveDuplicateCodeInConstructorsAction](#)
- class [RemoveDuplicateCodeInConstructorsConstants](#)
- class [RemoveDuplicateCodeInConstructorsDescriptor](#)
- class [RemoveDuplicateCodeInConstructorsInputPage](#)
- class [RemoveDuplicateCodeInConstructorsRefactoring](#)
- class [RemoveDuplicateCodeInConstructorsWizard](#)

4.4 Package edu.illinois.canistelCassabanana.utility

Classes

- class [Utility](#)

4.5 Package edu.illinois.canistelCassabanana.visitors

Classes

- class [AssignmentExpressionVisitor](#)
- class [ConstructorDeclarationVisitor](#)
- class [ConstructorInvocationVisitor](#)
- class [FieldVariableVisitor](#)
- class [TypeDeclarationVisitor](#)

Chapter 5

Class Documentation

5.1 edu.illinois.canistelCassabanana.Activator Class Reference

Inherits org::eclipse::ui::plugin::AbstractUIPlugin.

Public Member Functions

- [Activator](#) ()
- void [start](#) (BundleContext context) throws Exception
- void [stop](#) (BundleContext context) throws Exception

Static Public Member Functions

- static [Activator](#) [getDefault](#) ()

Static Public Attributes

- static final String [PLUGIN_ID](#) = "edu.illinois.canistelCassabanana"

Static Private Attributes

- static [Activator](#) [plugin](#)

5.1.1 Detailed Description

The activator class controls the plug-in life cycle

Definition at line 9 of file Activator.java.

5.1.2 Constructor & Destructor Documentation

5.1.2.1 `edu.illinois.canistelCassabanana.Activator.Activator ()`

The constructor

Definition at line 20 of file `Activator.java`.

5.1.3 Member Function Documentation

5.1.3.1 `static Activator edu.illinois.canistelCassabanana.Activator.getDefault ()` [static]

Returns the shared instance

Returns

the shared instance

Definition at line 46 of file `Activator.java`.

5.1.3.2 `void edu.illinois.canistelCassabanana.Activator.start (BundleContext context) throws Exception`

Definition at line 27 of file `Activator.java`.

5.1.3.3 `void edu.illinois.canistelCassabanana.Activator.stop (BundleContext context) throws Exception`

Definition at line 36 of file `Activator.java`.

5.1.4 Member Data Documentation

5.1.4.1 `Activator edu.illinois.canistelCassabanana.Activator.plugin` [static, private]

Definition at line 15 of file `Activator.java`.

5.1.4.2 `final String edu.illinois.canistelCassabanana.Activator.PLUGIN_ID = "edu.illinois.canistelCassabanana"` [static]

Definition at line 12 of file `Activator.java`.

The documentation for this class was generated from the following file:

- `/media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/Activator.java`

5.2 edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor Class Reference

Inherits org::eclipse::jdt::core::dom::ASTVisitor.

Public Member Functions

- [AssignmentExpressionVisitor](#) ()
- boolean [visit](#) (Assignment assignment)
- Set< Expression > [getLeftHandSideAssignmentExpressions](#) ()
- Set< Expression > [getRightHandSideAssignmentExpressions](#) ()

Private Attributes

- Set< Expression > [leftHandSideAssignmentExpressions](#)
- Set< Expression > [rightHandSideAssignmentExpressions](#)

5.2.1 Detailed Description

Collects the assignments found in the AST subtree from the starting root node, and exposes the results.

Author

jon

Definition at line 23 of file AssignmentExpressionVisitor.java.

5.2.2 Constructor & Destructor Documentation

5.2.2.1 edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor.AssignmentExpressionVisitor ()

Definition at line 31 of file AssignmentExpressionVisitor.java.

5.2.3 Member Function Documentation

5.2.3.1 Set<Expression> edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor.getLeftHandSideAssignmentExpressions ()

Definition at line 50 of file AssignmentExpressionVisitor.java.

5.2.3.2 Set<Expression> edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor.getRightHandSideAssignment ()

Definition at line 54 of file AssignmentExpressionVisitor.java.

5.2.3.3 boolean edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor.visit (Assignment *assignment*)

Collects the expressions that appear in the left hand side of assignments.

Definition at line 42 of file AssignmentExpressionVisitor.java.

5.2.4 Member Data Documentation

5.2.4.1 Set<Expression> edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor.leftHandSide [private]

The expressions that appear in the left hand side of assignments.

Definition at line 28 of file AssignmentExpressionVisitor.java.

5.2.4.2 Set<Expression> edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor.rightHandSide [private]

Definition at line 29 of file AssignmentExpressionVisitor.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/AssignmentExpressionVisitor.java

5.3 edu.illinois.canistelCassabanana.visitors.ConstructorDeclarationVisitor Class Reference

Inherits org.eclipse.jdt.core.dom.ASTVisitor.

Public Member Functions

- [ConstructorDeclarationVisitor](#) ()
- boolean [visit](#) (MethodDeclaration node)
- Set< MethodDeclaration > [getConstructorDeclarations](#) ()

Private Attributes

- Set< MethodDeclaration > [constructorDeclarations](#)

5.3.1 Detailed Description

Collects the constructor declarations found in the AST subtree from the starting root node, and exposes the results.

Author

jon

Definition at line 17 of file ConstructorDeclarationVisitor.java.

5.3.2 Constructor & Destructor Documentation

5.3.2.1 edu.illinois.canistelCassabanana.visitors.ConstructorDeclarationVisitor.ConstructorDeclarationVisitor ()

Definition at line 24 of file ConstructorDeclarationVisitor.java.

5.3.3 Member Function Documentation

5.3.3.1 Set<MethodDeclaration> edu.illinois.canistelCassabanana.visitors.ConstructorDeclarationVisitor.getConstructorDeclarations ()

Definition at line 41 of file ConstructorDeclarationVisitor.java.

5.3.3.2 boolean edu.illinois.canistelCassabanana.visitors.ConstructorDeclarationVisitor.visit (MethodDeclaration *node*)

Collects this method declaration if it is a constructor, and prevents further recursion.

Definition at line 34 of file ConstructorDeclarationVisitor.java.

5.3.4 Member Data Documentation

5.3.4.1 Set<MethodDeclaration> edu.illinois.canistelCassabanana.visitors.ConstructorDeclarationVisitor.constructorDeclarations [private]

The set of constructors (declarations) found

Definition at line 22 of file ConstructorDeclarationVisitor.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/[ConstructorDeclarationVisitor.java](#)

5.4 edu.illinois.canistelCassabanana.visitors.ConstructorInvocationVisitor Class Reference

Inherits org::eclipse::jdt::core::dom::ASTVisitor.

Public Member Functions

- [ConstructorInvocationVisitor](#) ()
- boolean [visit](#) (ConstructorInvocation node)
- Set< ConstructorInvocation > [getConstructorInvocations](#) ()

Private Attributes

- Set< ConstructorInvocation > [constructorInvocations](#)

5.4.1 Detailed Description

Collects the constructor invocations found in the AST subtree from the starting root node, and exposes the results.

Author

jon

Definition at line 20 of file ConstructorInvocationVisitor.java.

5.4.2 Constructor & Destructor Documentation

5.4.2.1 edu.illinois.canistelCassabanana.visitors.ConstructorInvocationVisitor.ConstructorInvocationVisitor ()

Definition at line 27 of file ConstructorInvocationVisitor.java.

5.4.3 Member Function Documentation

5.4.3.1 Set<ConstructorInvocation> edu.illinois.canistelCassabanana.visitors.ConstructorInvocationVisitor.getConstructorInvocations ()

Definition at line 42 of file ConstructorInvocationVisitor.java.

5.4.3.2 boolean edu.illinois.canistelCassabanana.visitors.ConstructorInvocationVisitor.visit (ConstructorInvocation node)

Collects this method invocation if it is a constructor, and prevents further recursion.

Definition at line 37 of file ConstructorInvocationVisitor.java.

5.4.4 Member Data Documentation

5.4.4.1 Set<ConstructorInvocation> edu.illinois.canistelCassabanana.visitors.ConstructorInvocationVisitor.constructorInvocations [private]

The set of constructor calls found

Definition at line 25 of file ConstructorInvocationVisitor.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/[ConstructorInvocationVisitor.java](#)

5.5 edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor Class Reference

Inherits org.eclipse.jdt.core.dom.ASTVisitor.

Public Member Functions

- [FieldVariableVisitor](#) ()
- boolean [visit](#) (SimpleName node)
- Set< IVariableBinding > [getFields](#) ()
- Set< Statement > [getFieldAssignmentStatements](#) ()
- void [setFieldAssignmentStatements](#) (Set< Statement > [fieldAssignmentStatements](#))

Private Attributes

- Set< IVariableBinding > [fields](#)
- Set< Statement > [fieldAssignmentStatements](#)

5.5.1 Detailed Description

Collects the field variables found in the AST subtree from the starting root node.

Author

jon

Definition at line 19 of file FieldVariableVisitor.java.

5.5.2 Constructor & Destructor Documentation

5.5.2.1 `edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.FieldVariableVisitor ()`

Definition at line 31 of file `FieldVariableVisitor.java`.

5.5.3 Member Function Documentation

5.5.3.1 `Set<Statement> edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.getFieldAssignmentStatements ()`

Definition at line 65 of file `FieldVariableVisitor.java`.

5.5.3.2 `Set<IVariableBinding> edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.getFields ()`

Definition at line 61 of file `FieldVariableVisitor.java`.

5.5.3.3 `void edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.setFieldAssignmentStatements (Set< Statement > fieldAssignmentStatements)`

Definition at line 69 of file `FieldVariableVisitor.java`.

5.5.3.4 `boolean edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.visit (SimpleName node)`

Definition at line 41 of file `FieldVariableVisitor.java`.

5.5.4 Member Data Documentation

5.5.4.1 `Set<Statement> edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.fieldAssignmentStatements [private]`

The statements corresponding to assignments to fields

Definition at line 29 of file `FieldVariableVisitor.java`.

5.5.4.2 `Set<IVariableBinding> edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor.fields [private]`

The fields that appear in any simple name nodes we visit.

Definition at line 24 of file `FieldVariableVisitor.java`.

The documentation for this class was generated from the following file:

5.6

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction

Class Reference

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- [/media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/FieldVariableVisitor.](#)

5.6 edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction Class Reference

Inherits [org::eclipse::ui::IWorkbenchWindowActionDelegate](#).

Public Member Functions

- void [dispose](#) ()
- void [init](#) (final [IWorkbenchWindow](#) [window](#))
- void [run](#) (final [IAction](#) action)
- void [selectionChanged](#) (final [IAction](#) action, final [ISelection](#) selection)

Private Member Functions

- void [refactorTreeSelection](#) (final [IAction](#) action, [ITreeSelection](#) treeSelection)
- void [launchRefactoring](#) ([RemoveDuplicateCodeInConstructorsRefactoring](#) refactoring, List< [IMethod](#) > constructors)

Private Attributes

- [IWorkbenchWindow](#) [window](#)
- [ICompilationUnit](#) [unit](#)

5.6.1 Detailed Description

Action invoked by clicking on the menu item corresponding to this refactoring. This should perform the refactoring on the given code.

Author

jon

Definition at line 28 of file [RemoveDuplicateCodeInConstructorsAction.java](#).

5.6.2 Member Function Documentation

5.6.2.1 void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.dispose ()

Definition at line 43 of file [RemoveDuplicateCodeInConstructorsAction.java](#).

5.6.2.2 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.init (final IWorkbenchWindow window)`

Definition at line 50 of file RemoveDuplicateCodeInConstructorsAction.java.

5.6.2.3 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.launchRefactoring (RemoveDuplicateCodeInConstructorsRefactoring refactoring, List<IMethod> constructors) [private]`

Launches the refactoring.

Definition at line 142 of file RemoveDuplicateCodeInConstructorsAction.java.

5.6.2.4 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.refactorTreeSelection (final IAction action, ITreeSelection treeSelection) [private]`

Parameters

| | |
|----------------------------|--|
| <i>action</i> | |
| <i>structuredSelection</i> | |

Definition at line 108 of file RemoveDuplicateCodeInConstructorsAction.java.

5.6.2.5 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.run (final IAction action)`

Definition at line 57 of file RemoveDuplicateCodeInConstructorsAction.java.

5.6.2.6 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.selectionChanged (final IAction action, final ISelection selection)`

Definition at line 155 of file RemoveDuplicateCodeInConstructorsAction.java.

5.6.3 Member Data Documentation

5.6.3.1 `ICompilationUnit edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.unit [private]`

The top-level compilation unit

Definition at line 38 of file RemoveDuplicateCodeInConstructorsAction.java.

5.6.3.2 `IWorkbenchWindow edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction.window [private]`

The workbench window, or null

5.7

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants **Class Reference**

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Definition at line 33 of file RemoveDuplicateCodeInConstructorsAction.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/[RemoveDuplicateCodeInConstructorsConstants.java](#)

5.7 edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants

Class Reference

Static Public Attributes

- static final String [NO_DUPLICATE_CODE_MESSAGE](#) = "This refactoring must be performed on containing two or more constructors that contain duplicate code."
- static final String [ONE_CONSTRUCTOR_MESSAGE](#) = "This refactoring must be performed on containing two or more constructors."
- static final String [NO_CONSTRUCTORS_MESSAGE](#) = "This refactoring must be performed on containing two or more constructors."
- static final String [NULL_CONSTRUCTORS_MESSAGE](#) = "Error finding constructors to refactor."
- static final String [CHECKING_PRECONDITIONS_MESSAGE](#) = "Checking preconditions for refactoring ..."
- static final String [UNEXPECTED_ERROR_MESSAGE](#) = "An unexpected exception occurred. See the error log for more details."
- static final String [REFACTORING_ID](#) = "RemoveDuplicateCodeInConstructorsRefactoring"
- static final String [REFACTORING_NAME](#) = "Remove Duplicate Code In Constructors"
- static final String [REFACTORING_DESCRIPTION](#) = "common construction code to as few constructors or as possible."

Static Private Attributes

- static final String [UNABLE_TO_REFACTOR](#) = "Preconditions satisfied, but unable to refactor."

5.7.1 Detailed Description

Contains UI constants for the refactoring, including error messages and text constants to appear in the UI.

Author

jon

Definition at line 8 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2 Member Data Documentation

5.7.2.1 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.CHECK_PRECONDITIONS_MESSAGE = "Checking preconditions for refactoring ..."`
[static]

Definition at line 18 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.2 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.NO_CONSTRUCTORS_MESSAGE = "This refactoring must be performed on containing two or more constructors."` [static]

Definition at line 15 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.3 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.NO_DUPLICATE_CODE_MESSAGE = "This refactoring must be performed on containing two or more constructors that contain duplicate code."` [static]

Definition at line 11 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.4 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.NULL_CONSTRUCTORS_MESSAGE = "Error finding constructors to refactor."`
[static]

Definition at line 17 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.5 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.ONE_CONSTRUCTOR_MESSAGE = "This refactoring must be performed on containing two or more constructors."` [static]

Definition at line 13 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.6 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.REFACTOR_DESCRIPTION = "common construction code to as few constructors or as possible."` [static]

Definition at line 25 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.7 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.REFACTOR_ID = "RemoveDuplicateCodeInConstructorsRefactoring"` [static]

Definition at line 23 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.8

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor

Class Reference

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5.7.2.8 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.REFACTORING_`

`NAME = "Remove Duplicate Code In Constructors" [static]`

Definition at line 24 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.9 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.UNABLE_`

`TO_REFACTOR = "Preconditions satisfied, but unable to refactor." [static,
private]`

Definition at line 20 of file RemoveDuplicateCodeInConstructorsConstants.java.

5.7.2.10 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants.UNEXPECTED_`

`ERROR_MESSAGE = "An unexpected exception occurred. See the error log for
more details." [static]`

Definition at line 19 of file RemoveDuplicateCodeInConstructorsConstants.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/[RemoveDuplicateCodeInConstructorsDescriptor.java](#)

5.8 edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor

Class Reference

Inherits org.eclipse.ltk.core.refactoring.RefactoringDescriptor.

Public Member Functions

- Map [getArguments](#) ()
- Refactoring [createRefactoring](#) (RefactoringStatus status) throws CoreException

Static Public Attributes

- static final String [REFACTORING_ID](#) = "org.eclipse.remove.duplicate.code.in.constructors"

Protected Member Functions

- [RemoveDuplicateCodeInConstructorsDescriptor](#) (String project, String description, String comment, Map [arguments](#))

Private Attributes

- Map [arguments](#)

5.8.1 Detailed Description

Descriptor object to allow refactoring to be used in refactoring scripts.

Author

jon

Definition at line 15 of file RemoveDuplicateCodeInConstructorsDescriptor.java.

5.8.2 Constructor & Destructor Documentation

5.8.2.1 `edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor.RemoveDuplicateCodeInConstructorsDescriptor(String project, String description, String comment, Map arguments)`
`[protected]`

Definition at line 25 of file RemoveDuplicateCodeInConstructorsDescriptor.java.

5.8.3 Member Function Documentation

5.8.3.1 `Refactoring edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor.createRefactoring(RefactoringStatus status)` throws `CoreException`

Definition at line 31 of file RemoveDuplicateCodeInConstructorsDescriptor.java.

5.8.3.2 `Map edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor.getArguments()`

Definition at line 21 of file RemoveDuplicateCodeInConstructorsDescriptor.java.

5.8.4 Member Data Documentation

5.8.4.1 `Map edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor.arguments`
`[private]`

Definition at line 19 of file RemoveDuplicateCodeInConstructorsDescriptor.java.

5.8.4.2 `final String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor.REFACTORING_ID = "org.eclipse.remove.duplicate.code.in.constructors"` `[static]`

Definition at line 17 of file RemoveDuplicateCodeInConstructorsDescriptor.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/[RemoveDuplicateCodeInConstructorsDescriptor.java](#)

5.9

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage

Class Reference

5.9 edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage

Class Reference

Inherits org::eclipse::ltk::ui::refactoring::UserInputWizardPage.

Public Member Functions

- [RemoveDuplicateCodeInConstructorsInputPage](#) (String name, List< IMethod > constructors)
- void [createControl](#) (Composite parent)

Package Attributes

- List< IMethod > [constructors](#)
- [RemoveDuplicateCodeInConstructorsRefactoring](#) [refactoring](#)
- Combo [accessModifierComboBox](#)
- Button [helperMethodCheckBox](#)
- Text [helperMethodTextBox](#)

Private Member Functions

- void [buildHelperMethodOptions](#) (Composite composite)
- void [buildAccessModifierOptions](#) (Composite composite)
- void [handleInput](#) ()
- [RemoveDuplicateCodeInConstructorsRefactoring](#) [getRemoveDuplicateCodeInConstructorsRefactoring](#) ()
- void [enableDisableHelperMethodTextBox](#) ()
- SelectionListener [getHelperMethodCheckBoxListener](#) ()

5.9.1 Detailed Description

The input page for the refactoring wizard. This class will set the fields corresponding to user input on the refactoring object.

Author

jon

Definition at line 33 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.2 Constructor & Destructor Documentation

5.9.2.1 `edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.RemoveDuplicateCodeInConstructorsInputPage` (*String name*, *List< IMethod > constructors*)

Create this input page, initializing the refactoring object and list of constructors.

Parameters

| | |
|---------------------|--|
| <i>name</i> | The name to display on the input page |
| <i>constructors</i> | The constructors to selected to refactor |

Definition at line 68 of file `RemoveDuplicateCodeInConstructorsInputPage.java`.

5.9.3 Member Function Documentation

5.9.3.1 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.buildAccessModifierOptions` (*Composite composite*) [*private*]

Create the GUI components for the access modifier options, and add them to the parent controls GUI element.

Parameters

| | |
|------------------|-------------------------------|
| <i>composite</i> | The parent for these controls |
|------------------|-------------------------------|

Definition at line 137 of file `RemoveDuplicateCodeInConstructorsInputPage.java`.

5.9.3.2 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.buildHelperMethodOptions` (*Composite composite*) [*private*]

Create the GUI components for the helper method options, and add them to the parent controls GUI element.

Parameters

| | |
|------------------|-------------------------------|
| <i>composite</i> | The parent for these controls |
|------------------|-------------------------------|

Definition at line 110 of file `RemoveDuplicateCodeInConstructorsInputPage.java`.

5.9.3.3 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.createControl` (*Composite parent*)

Create the GUI controls for the input page

Parameters

| | |
|---------------|---|
| <i>parent</i> | The parent composite object to which to attach all controls |
|---------------|---|

5.9

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage **Class Reference**

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Definition at line 81 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.3.4 void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.enableDisableHelperMethodTextBox
() [private]

Enables or disable the helper method text box based on the check box state.

Definition at line 194 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.3.5 SelectionListener edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.getHelperMethodCheckBoxListener
() [private]

Gets the listener for the helper method check box, which enables/disables the corresponding input text box field.

Returns

The selection listener to trigger enabling/disabling the helper method input box

Definition at line 209 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.3.6 RemoveDuplicateCodeInConstructorsRefactoring
edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.getRemoveDuplicateCodeInConstructorsRefactoring
() [private]

Gets the refactoring associated with this input page from the parent input page.

Returns

The refactoring associated with this input page

Definition at line 186 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.3.7 void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.handleInput
() [private]

Handle the user input, setting the corresponding options on the refactoring object.

Definition at line 161 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.4 Member Data Documentation

5.9.4.1 Combo edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.accessModifierComboBox
[package]

Combo box to select the access modifier for the new constructor or helper method

Definition at line 48 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.4.2 **List<IMethod> edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.c** [package]

The list of selected constructors, to pass to the refactoring

Definition at line 38 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.4.3 **Button edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.helperMe** [package]

Check box to specify whether or not the user would prefer to create a helper method over a new constructor, if it is necessary.

Definition at line 54 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.4.4 **Text edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.helperMeth** [package]

Text box to specify the name of the helper method to create instead of a constructor, if the checkbox option has been set.

Definition at line 60 of file RemoveDuplicateCodeInConstructorsInputPage.java.

5.9.4.5 **RemoveDuplicateCodeInConstructorsRefactoring** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage.refactoring** [package]

The refactoring to launch

Definition at line 43 of file RemoveDuplicateCodeInConstructorsInputPage.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/[RemoveDuplica](#)

5.10 **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring** **Class Reference**

Inherits org::eclipse::ltk::core::refactoring::Refactoring.

Public Member Functions

- [RemoveDuplicateCodeInConstructorsRefactoring](#) (ICompilationUnit unit)
- [RemoveDuplicateCodeInConstructorsRefactoring](#) ()
- [RemoveDuplicateCodeInConstructorsRefactoring](#) (List< IMethod > construc-tors)

5.10

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring

Class Reference

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- String [getName](#) ()
- RefactoringStatus [checkInitialConditions](#) (IProgressMonitor progressMonitor) throws CoreException, OperationCanceledException
- RefactoringStatus [checkFinalConditions](#) (IProgressMonitor progressMonitor) throws CoreException, OperationCanceledException
- Change [createChange](#) (IProgressMonitor progressMonitor) throws CoreException, OperationCanceledException
- void [setUseHelperFunction](#) (boolean useHelperFunction)
- void [setHelperFunctionName](#) (String helperFunctionName)
- void [setAccessModifier](#) (String accessModifier)

Private Member Functions

- RefactoringStatus [checkNumberOfConstructors](#) (RefactoringStatus errorStatus)
- RefactoringStatus [checkCompileErrors](#) (RefactoringStatus status, RefactoringStatus errorStatus)
- void [rewriteAST](#) (ASTRewrite astRewrite, ImportRewrite importRewrite)
- boolean [isEmptyEdit](#) (TextEdit astEdit)
- void [removeFinalFieldAssignments](#) (ASTRewrite astRewrite, Map< IVariableBinding, Expression > finalFieldAssignments, Block block, List< Statement > statements)
- void [createMasterConstructorCall](#) (ASTRewrite astRewrite, List< IVariableBinding > fieldsAssignedInOrder, List< Statement > statements, Map< IVariableBinding, Expression > finalFieldAssignments, Block block)
- ASTNode [createDefaultValue](#) (IVariableBinding field, AST ast)
- Map< IVariableBinding, Expression > [getFieldAssignments](#) (List< Statement > statements)
- MethodDeclaration [createMasterConstructor](#) (List< IVariableBinding > fieldsAssignedInOrder, ImportRewrite importRewrite)
- Block [createConstructorBody](#) (List< SingleVariableDeclaration > parameters, List< IVariableBinding > fieldsAssigned)
- List< IProblem > [initializeConstructors](#) ()
- boolean [otherConstructorsCallConstructors](#) (MethodDeclaration constructorAssigningAllAssignedFields)
- MethodDeclaration [getConstructorContainingAllAssignedFields](#) ()
- Set< IVariableBinding > [getFieldsAssignedInAnyConstructor](#) ()
- boolean [constructorsOverlapAssignments](#) ()
- Map< MethodDeclaration, Set< IVariableBinding > > [getFieldAssignmentsInConstructors](#) (Set< MethodDeclaration > constructorDeclarations)
- Set< MethodDeclaration > [getConstructors](#) (CompilationUnit ast)

Private Attributes

- List< IMethod > [constructors](#)
- Set< MethodDeclaration > [constructorDeclarations](#)
- Map< MethodDeclaration, Set< IVariableBinding > > [fieldsInConstructorAssignments](#)

- ICompilationUnit [parent](#)
- CompilationUnit [compilationUnit](#)
- Map< ICompilationUnit, TextFileChange > [changes](#)
- AST [ast](#)
- boolean [useHelperFunction](#)
- String [helperFunctionName](#)
- String [accessModifier](#)

5.10.1 Detailed Description

The refactoring itself.

Author

jon

Definition at line 65 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.2 Constructor & Destructor Documentation

5.10.2.1 `edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.RemoveDuplicateCodeInConstructorsRefactoring(ICompilationUnit unit)`

Constructs this refactoring given the compilation unit, the parent of all constructors to be refactored.

Parameters

| | |
|-------------|--|
| <i>unit</i> | The compilation unit, the class in which to perform the refactoring. |
|-------------|--|

Definition at line 129 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.2.2 `edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.RemoveDuplicateCodeInConstructorsRefactoring()`

Definition at line 134 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.2.3 `edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.RemoveDuplicateCodeInConstructorsRefactoring(List< IMethod > constructors)`

Constructs this refactoring given a specific set of constructors to refactor.

Parameters

| | |
|---------------------|-------------------------------|
| <i>constructors</i> | The constructors to refactor. |
|---------------------|-------------------------------|

5.10

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring

Class Reference

29

Definition at line 145 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3 Member Function Documentation

5.10.3.1 RefactoringStatus edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.checkCompileErrors
(RefactoringStatus *status*, RefactoringStatus *errorStatus*) [private]

Checks for compile errors in the constructors of the compilation unit, and merges the proper error statuses into the given status objects if it finds any errors.

Parameters

| | |
|--------------------|---|
| <i>status</i> | The overall error of the refactoring |
| <i>errorStatus</i> | A local variable for storing the error status |

Returns

The updated refactoring status

Definition at line 258 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.2 RefactoringStatus edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.checkFinalConditions
(IProgressMonitor *progressMonitor*) throws CoreException, OperationCanceledException

Checks that the final output of the refactoring is valid

Parameters

| | |
|-------------------------|---|
| <i>progress-Monitor</i> | UI component to monitor the progress of the refactoring |
|-------------------------|---|

Returns

The status of the refactoring

Definition at line 302 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.3 RefactoringStatus edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.checkInitialConditions
(IProgressMonitor *progressMonitor*) throws CoreException, OperationCanceledException

Check that the initial conditions for the refactoring are satisfied, specifically that:

- There are at least two constructors in the class
- Each constructor contains no compile errors

Parameters

| | |
|-------------------------|---|
| <i>progress-Monitor</i> | UI component to monitor the progress of the refactoring |
|-------------------------|---|

Returns

The status of the refactoring, i.e. if there was an error and what severity it has.

Definition at line 175 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.4 RefactoringStatus edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.checkNumberC
(RefactoringStatus *errorStatus*) [private]

Check for errors with the number of constructors in the class.

Parameters

| | |
|--------------------|--|
| <i>errorStatus</i> | The error status object to update if errors are found. |
|--------------------|--|

Returns

The updated error status

Definition at line 229 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.5 boolean edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.constructorsOverlapAss
() [private]

Check for any duplicate assignments between pairs of constructors, from the set of all fields assigned in any constructors. This implicitly handles constructors that give the default value to some field assigned by other constructors.

Returns

True if there are explicit overlapping assignments from the set of all fields assigned in any constructor, false otherwise.

Definition at line 767 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.6 Change edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.createChange
(IProgressMonitor *progressMonitor*) throws CoreException, OperationCanceledEx-
ception

Actually performs the refactoring.

Parameters

| | |
|-------------------------|---|
| <i>progress-Monitor</i> | A handle on the progress monitor UI component |
|-------------------------|---|

The change object representing the completed refactoring

Definition at line 629 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.7 Block edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.createConstructorBody
(List< SingleVariableDeclaration > *parameters*, List< IVariableBinding >
fieldsAssigned) [private]

Create the block of statements for a new constructor or helper method. The lists given for parameters and fields are assumed to be provided in the corresponding order.

Parameters

| | |
|-----------------------|-------------------------------------|
| <i>parameters</i> | The parameters to the method |
| <i>fieldsAssigned</i> | The fields that need to be assigned |

Returns

The block of statements assigning the parameters to the

Definition at line 599 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.8 ASTNode edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.createDefaultValue
(IVariableBinding *field*, AST *ast*) [private]

Definition at line 477 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.9 MethodDeclaration edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.createMasterConstructor
(List< IVariableBinding > *fieldsAssignedInOrder*, ImportRewrite *importRewrite*)
[private]

Helper function to create the master constructor

Parameters

| | |
|------------------------------|--|
| <i>fieldsAssignedInOrder</i> | The list of fields assigned, in order |
| <i>importRewrite</i> | Utility to allow us to effectively deal with types |

Returns

The new constructor, with the body also initialized

Definition at line 548 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.10 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.createMasterConstructorCall(ASTRewrite astRewrite, List< IVariableBinding > fieldsAssignedInOrder, List< Statement > statements, Map< IVariableBinding, Expression > finalFieldAssignments, Block block) [private]`

Create the master constructor call in the given constructor.

Parameters

| | |
|------------------------------|--|
| <i>astRewrite</i> | Utility to allow us to rewrite the AST |
| <i>fieldsAssignedInOrder</i> | The list of fields assigned in any constructor, in order (matches the order of the parameters of the master constructor) |
| <i>statements</i> | The statements of this constructor |
| <i>finalFieldAssignments</i> | The map of values assigned to fields in this constructor |
| <i>block</i> | TODO |

Definition at line 448 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.11 `MethodDeclaration edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.getConstructor() [private]`

Returns the constructor with every (explicitly) assigned field as arguments, or null if none exists.

Definition at line 730 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.12 `Set<MethodDeclaration> edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.getConstructors(CompilationUnit ast) [private]`

Helper function to recursively retrieve all the constructors in some compilation unit

Parameters

| | |
|------------------|--|
| <i>unit</i> | The compilation unit from which to retrieve the constructors |
| <i>fieldName</i> | The field name |

Returns

The list of methods in this compilation unit

Definition at line 844 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.13 `Map<IVariableBinding, Expression> edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.getFieldAssignments(List< Statement > statements) [private]`

Gets the map of fields and their assigned values from a list of statements.

5.10

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring

Class Reference

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Parameters

| | |
|-------------------|---|
| <i>statements</i> | The list of statements from which to find assigned field values |
|-------------------|---|

Returns

The map of fields to their assigned expressions

Definition at line 498 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.14 **Map<MethodDeclaration, Set<IVariableBinding> >**

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.getFieldAssignmentsInConstructors

(Set< MethodDeclaration > *constructorDeclarations*) [private]

Helper function to extract the set of fields that appear in assignment expressions in each constructor

Parameters

| | |
|--|------------------------------|
| <i>construc- torDeclara- tions</i> | The constructors in question |
|--|------------------------------|

Returns

A map of constructor declarations to sets of fields

Definition at line 803 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.15 **Set<IVariableBinding> edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.getFieldsAssignedInA**

() [private]

Returns the set of all fields assigned in all of the constructors.

Returns

A set of variable bindings, corresponding the the set of all fields assigned in any constructors.

Definition at line 748 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.16 **String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.getName**

()

Gets the name of the refactoring.

Parameters

| | |
|------------|---------------------------------------|
| <i>The</i> | unique name given to this refactoring |
|------------|---------------------------------------|

Definition at line 157 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.17 `List<IProblem> edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.initializeConstructors () [private]`

Initializes the set of constructors for this class, and returns any problems ('error' level) that it found in these constructors.

Returns

IProblem[] - array of problems found in compilation of the unit. Compiler errors do not include anything within methods that are not constructors.

Definition at line 665 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.18 `boolean edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.isEmptyEdit (TextEdit astEdit) [private]`

Definition at line 406 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.19 `boolean edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.otherConstructorsCallC (MethodDeclaration constructorAssigningAllAssignedFields) [private]`

Determines whether or not all other constructors, besides one assigning all used fields, delegate their work to another constructor.

Parameters

| | |
|--|---|
| <i>constructorAssigningAllAssignedFields</i> | A constructor that assigns all fields, or null if none exists |
|--|---|

Returns

Whether or not all other constructors (besides the parameter) call another constructor.

Definition at line 699 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.20 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.removeFinalFieldAssignments (ASTRewrite astRewrite, Map< IVariableBinding, Expression > finalFieldAssignments, Block block, List< Statement > statements) [private]`

Definition at line 410 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring

Class Reference

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5.10.3.21 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.rewriteAST
(ASTRewrite astRewrite, ImportRewrite importRewrite) [private]`

Definition at line 374 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.22 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.setAccessModifier
(String accessModifier)`

Definition at line 859 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.23 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.setHelperFunctionName
(String helperFunctionName)`

Definition at line 855 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.3.24 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.setUseHelperFunction
(boolean useHelperFunction)`

Definition at line 851 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4 Member Data Documentation

5.10.4.1 `String edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.accessModifier
[private]`

The access modifier to use for creating a new constructor or helper method.

Definition at line 119 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.2 `AST edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.ast
[private]`

The AST to use to create new methods, and from which to create the rewriter.

Definition at line 101 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.3 `Map<ICompilationUnit, TextFileChange>
edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.changes
[private]`

Stores a map of changes made to each compilation unit.

Definition at line 95 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.4 **CompilationUnit** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring** [private]

The heavy weight, parsed compilation unit corresponding to the class.

Definition at line 90 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.5 **Set<MethodDeclaration>** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring** [private]

The constructors for this class

Definition at line 75 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.6 **List<IMethod>** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring** [private]

The constructors on which to perform this refactoring

Definition at line 70 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.7 **Map<MethodDeclaration, Set<IVariableBinding> >** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.fieldsInConstructors** [private]

A map of constructors to the fields in them that appear in assignments

Definition at line 80 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.8 **String** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.helperFunctionName** [private]

The name of the helper function, only set if the `useHelperFunction` is `true`.

Definition at line 113 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.9 **CompilationUnit** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.helperFunctionCU** [private]

The compilation unit, the class on which to perform this refactoring

Definition at line 85 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.10.4.10 **boolean** **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsRefactoring.useHelperFunction** [private]

Whether or not this refactoring should use a helper function instead of a constructor.

Definition at line 107 of file RemoveDuplicateCodeInConstructorsRefactoring.java.

5.11

edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsWizard

Class Reference

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The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/[RemoveDuplicateCodeInConstructorsWizard.java](#)

5.11 edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsWizard Class Reference

Inherits org::eclipse::ltk::ui::refactoring::RefactoringWizard.

Public Member Functions

- [RemoveDuplicateCodeInConstructorsWizard](#) ([RemoveDuplicateCodeInConstructorsRefactoring](#) refactoring, String pageTitle, List< IMethod > [constructors](#))

Protected Member Functions

- void [addUserInputPages](#) ()

Package Attributes

- List< IMethod > [constructors](#)

5.11.1 Detailed Description

The refactoring wizard class, which displays the input page and passes data on to the refactoring.

Author

jon

Definition at line 13 of file RemoveDuplicateCodeInConstructorsWizard.java.

5.11.2 Constructor & Destructor Documentation

- 5.11.2.1 **edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsWizard.RemoveDuplicateCodeInConstructorsWizard** ([RemoveDuplicateCodeInConstructorsRefactoring](#) *refactoring*, String *pageTitle*, List< IMethod > *constructors*)

Builds the refactoring wizard.

Parameters

| | |
|---------------------|--|
| <i>refactoring</i> | The refactoring object to launch |
| <i>pageTitle</i> | The title to be displayed on the wizard |
| <i>constructors</i> | The constructors selected to be refactored. If the class was selected to be refactored, all constructors from the compilation unit will be passed. |

Definition at line 28 of file RemoveDuplicateCodeInConstructorsWizard.java.

5.11.3 Member Function Documentation

5.11.3.1 `void edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsWizard.addUserInputPages ()` [protected]

Add the only input page for this refactoring wizard

Definition at line 39 of file RemoveDuplicateCodeInConstructorsWizard.java.

5.11.4 Member Data Documentation

5.11.4.1 `List<IMethod> edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsWizard.con`
[package]

The constructors to be refactored

Definition at line 18 of file RemoveDuplicateCodeInConstructorsWizard.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/[RemoveDuplica](#)

5.12 edu.illinois.canistelCassabanana.visitors.TypeDeclarationVisitor Class Reference

Inherits org::eclipse::jdt::core::dom::ASTVisitor.

Public Member Functions

- List< TypeDeclaration > [getTypes](#) ()
- [TypeDeclarationVisitor](#) ()
- boolean [visit](#) (TypeDeclaration node)

Package Attributes

- List< TypeDeclaration > [types](#)

5.12.1 Detailed Description

Collects the type declarations found in the AST subtree from the starting root node.

Author

jon

Definition at line 14 of file TypeDeclarationVisitor.java.

5.12.2 Constructor & Destructor Documentation

5.12.2.1 edu.illinois.canistelCassabanana.visitors.TypeDeclarationVisitor.TypeDeclarationVisitor ()

Definition at line 25 of file TypeDeclarationVisitor.java.

5.12.3 Member Function Documentation

5.12.3.1 List<TypeDeclaration> edu.illinois.canistelCassabanana.visitors.TypeDeclarationVisitor.getTypes ()

Definition at line 21 of file TypeDeclarationVisitor.java.

5.12.3.2 boolean edu.illinois.canistelCassabanana.visitors.TypeDeclarationVisitor.visit (TypeDeclaration node)

Definition at line 33 of file TypeDeclarationVisitor.java.

5.12.4 Member Data Documentation

5.12.4.1 List<TypeDeclaration> edu.illinois.canistelCassabanana.visitors.TypeDeclarationVisitor.types [package]

The list of type declarations visited.

Definition at line 19 of file TypeDeclarationVisitor.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/[TypeDeclarationVisitor.java](#)

5.13 edu.illinois.canistelCassabanana.utility.Utility Class Reference

Static Public Member Functions

- static String [fullyQualifiedName](#) (ITypeBinding type)
- static IType [lookupIType](#) (ITypeBinding type, IJavaProject in)
- static ICompilationUnit [getParent](#) (List< IMethod > constructors)
- static List< IMethod > [getConstructors](#) (ICompilationUnit unit)
- static< T > Set< Set< T > > [getPairs](#) (Set< T > originalSet)

5.13.1 Detailed Description

A utility class that contains shared static methods for the plugin.

Author

jon

Definition at line 21 of file Utility.java.

5.13.2 Member Function Documentation

5.13.2.1 static String edu.illinois.canistelCassabanana.utility.Utility.fullyQualifiedName (ITypeBinding type) [static]

Returns the fully qualified name for a ITypeBinding or null if the name can't be determined.

Parameters

| | |
|-------------|--|
| <i>type</i> | The binding to determine the fully qualified name for. |
|-------------|--|

Returns

The fully qualified name of the binding.

Definition at line 30 of file Utility.java.

5.13.2.2 static List<IMethod> edu.illinois.canistelCassabanana.utility.Utility.getConstructors (ICompilationUnit unit) [static]

Helper function to recursively retrieve all the constructors in some compilation unit.

Parameters

| | |
|------------------|--|
| <i>unit</i> | The compilation unit from which to retrieve the constructors |
| <i>fieldName</i> | The field name |

Returns

The list of methods in this compilation unit

Definition at line 138 of file Utility.java.

5.13.2.3 `static <T> Set<Set<T> > edu.illinois.canistelCassabanana.utility.Utility.getPairs (Set< T> originalSet)` [static]

Find every pair of items from a set

Parameters

| | |
|--------------------|------------------|
| <i>originalSet</i> | The original set |
|--------------------|------------------|

Returns

A set of every possible pair from the original set

See also

<http://stackoverflow.com/questions/1670862/obtaining-powerset-of-a-set-in-java>

Definition at line 172 of file Utility.java.

5.13.2.4 `static ICompilationUnit edu.illinois.canistelCassabanana.utility.Utility.getParent (List< IMethod > constructors)` [static]

Finds the parent compilation unit of the given constructors.

Parameters

| | |
|---------------------|---|
| <i>constructors</i> | The list of constructors for which to find the parent |
|---------------------|---|

Returns

The compilation unit containing the given constructors. If the constructors do not share the same compilation unit, this method will return null.

Definition at line 114 of file Utility.java.

5.13.2.5 `static IType edu.illinois.canistelCassabanana.utility.Utility.lookupType (ITypeBinding type, IJavaProject in)` [static]

Converts an AST org.eclipse.jdt.core.dom.ITypeBinding into an org.eclipse.jdt.core.IType, or null if the conversion is not possible. This conversion is useful for resolving types on a project basis a project basis (rather than within a single Java file). If the given ITypeBinding is an array then the IType of the element type is returned.

Parameters

| | |
|-------------|---|
| <i>type</i> | The ITypeBinding to convert to an IType. |
| <i>in</i> | The Java project the binding is contained within. |

Returns

The IType corresponding to binding, or null.

Definition at line 78 of file Utility.java.

The documentation for this class was generated from the following file:

- /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/utility/[Utility.java](#)

Chapter 6

File Documentation

**6.1 /media/Documents/Documents/Dropbox/16 - College - Senior/CS
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File Reference**

Classes

- class [edu.illinois.canistelCassabanana.Activator](#)

Packages

- package [edu.illinois.canistelCassabanana](#)

**6.2 /media/Documents/Documents/Dropbox/16 - College - Senior/CS
427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassaba
File Reference**

Classes

- class [edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsAction](#)

Packages

- package [edu.illinois.canistelCassabanana](#)

6.3 /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/RemoveDuplicateCodeInConstructorsConstants File Reference

Classes

- class [edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsConstants](#)

Packages

- package [edu.illinois.canistelCassabanana](#)

6.4 /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/RemoveDuplicateCodeInConstructorsDescriptor File Reference

Classes

- class [edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsDescriptor](#)

Packages

- package [edu.illinois.canistelCassabanana](#)

6.5 /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/RemoveDuplicateCodeInConstructorsInputPage File Reference

Classes

- class [edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsInputPage](#)

Packages

- package [edu.illinois.canistelCassabanana](#)

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- package [edu.illinois.canistelCassabanana](#)

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File Reference

Classes

- class [edu.illinois.canistelCassabanana.RemoveDuplicateCodeInConstructorsWizard](#)

Packages

- package [edu.illinois.canistelCassabanana](#)

6.8 /media/Documents/Documents/Dropbox/16 - College - Senior/CS

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File Reference

Classes

- class [edu.illinois.canistelCassabanana.utility.Utility](#)

Packages

- package [edu.illinois.canistelCassabanana.utility](#)

6.9 /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/AssignmentExpressionVisitor.java File Reference

Classes

- class [edu.illinois.canistelCassabanana.visitors.AssignmentExpressionVisitor](#)

Packages

- package [edu.illinois.canistelCassabanana.visitors](#)

6.10 /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/ConstructorDeclarationVisitor.java File Reference

Classes

- class [edu.illinois.canistelCassabanana.visitors.ConstructorDeclarationVisitor](#)

Packages

- package [edu.illinois.canistelCassabanana.visitors](#)

6.11 /media/Documents/Documents/Dropbox/16 - College - Senior/CS 427 - Software Engineering I/edu.illinois.canistelCassabanana/src/edu/illinois/canistelCassabanana/visitors/ConstructorInvocationVisitor.java File Reference

Classes

- class [edu.illinois.canistelCassabanana.visitors.ConstructorInvocationVisitor](#)

Packages

- package [edu.illinois.canistelCassabanana.visitors](#)

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File Reference

Classes

- class [edu.illinois.canistelCassabanana.visitors.FieldVariableVisitor](#)

Packages

- package [edu.illinois.canistelCassabanana.visitors](#)

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Classes

- class [edu.illinois.canistelCassabanana.visitors.TypeDeclarationVisitor](#)

Packages

- package [edu.illinois.canistelCassabanana.visitors](#)

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