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Version: 1.0 / 2019-10-30

Introduction

EPlug is a plugin to extend the [Eclipse Java Integrated Development Environment](#) with support and additional features for development with the [JVx Application Framework](#) and the [VisionX Rapid Application Development Tool](#).

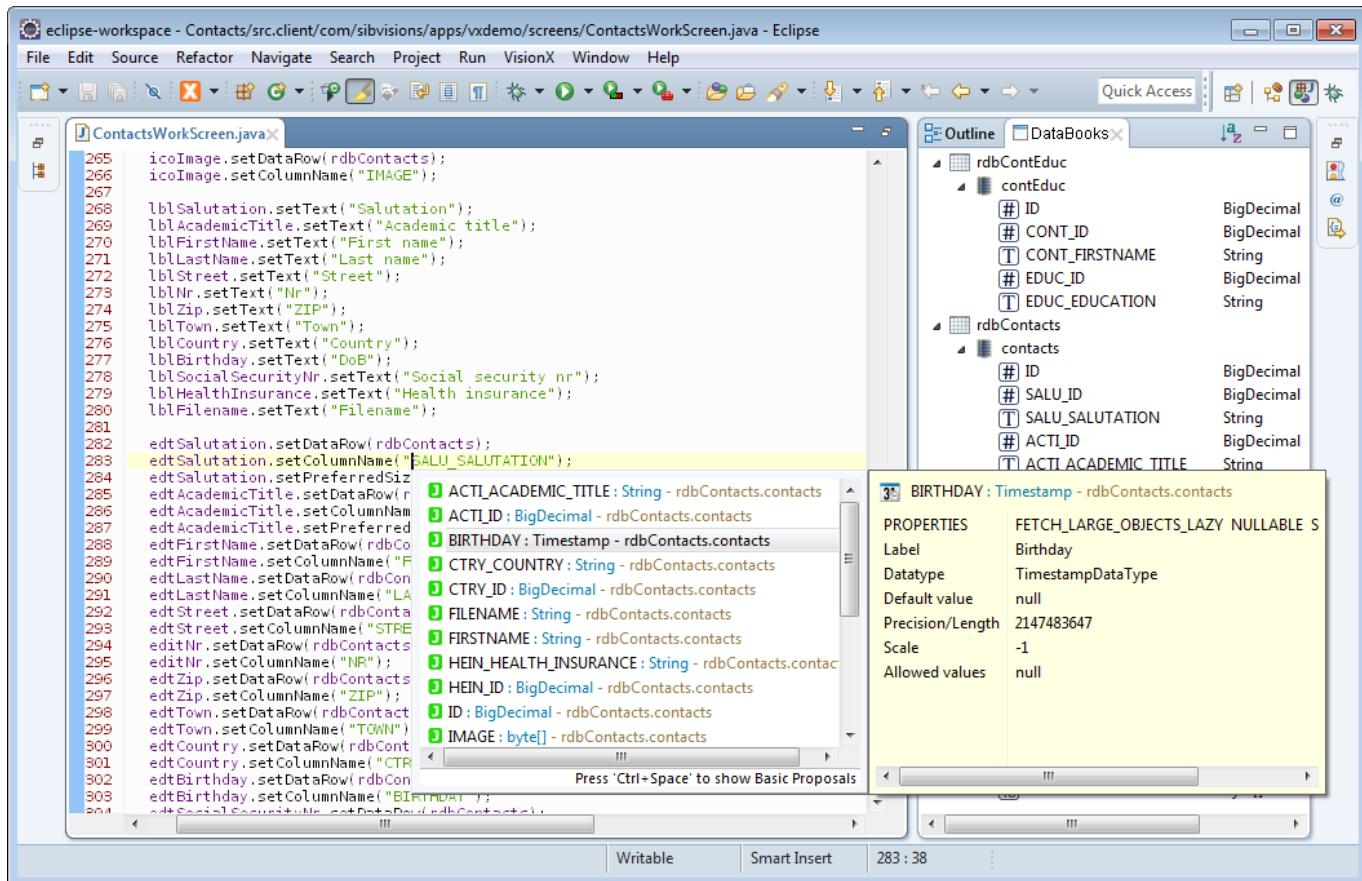
Because [JVx](#) is utilizing various different techniques to achieve its goals and the necessity to work around technical limitations, we provide support to IDEs like Eclipse to achieve a very good user experience when building complex applications.

Features

EPlug extends the Java IDE with additional features and functionality, for example:

- Extended auto-completion
- Extended compile-time checks
- Extended hover information
- Various commands

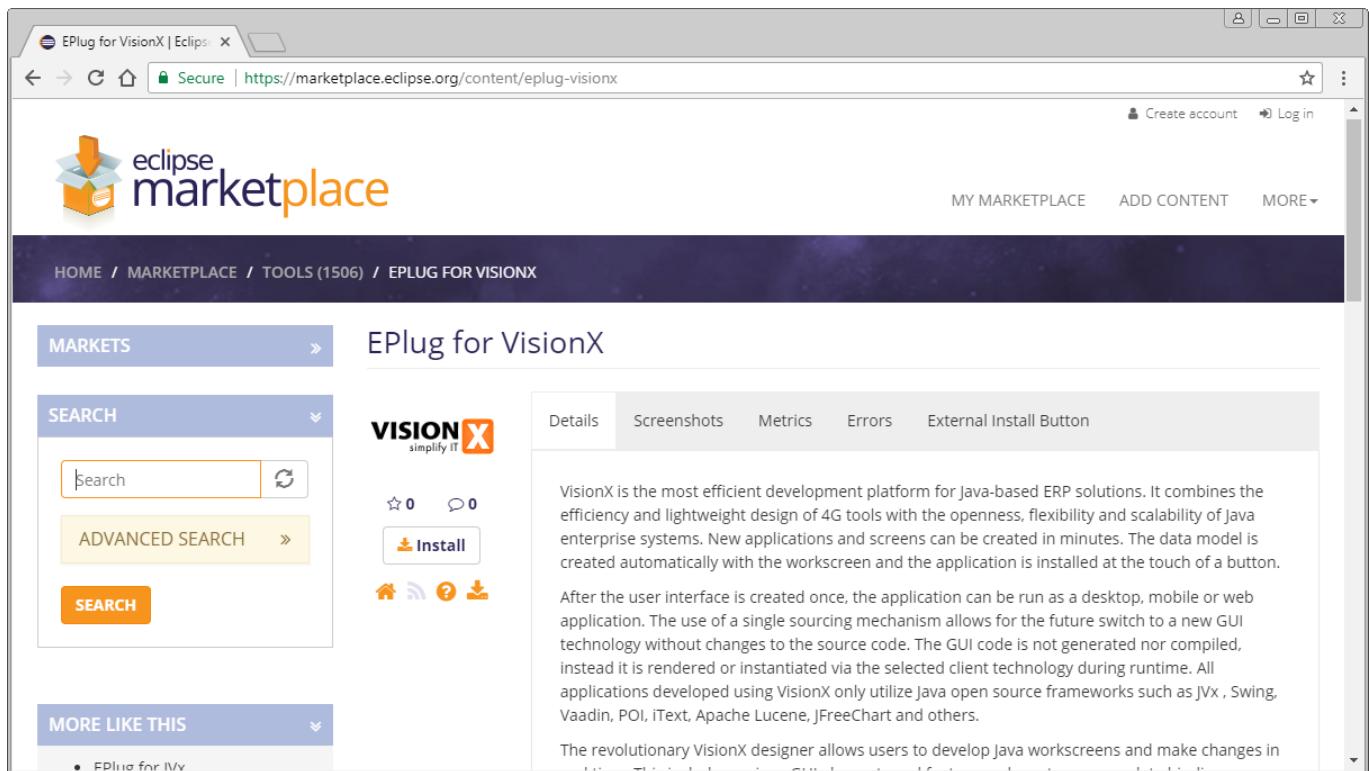
Additionally, it adds the ability to interact with [VisionX](#) directly from the Java IDE for certain actions, both triggered by the user and automatically.



For a complete and detailed list of features, see [Interaction with VisionX](#).

Installation

EPlug can be installed from the [Eclipse Marketplace](#) by using the [EPlug marketplace entry](#).

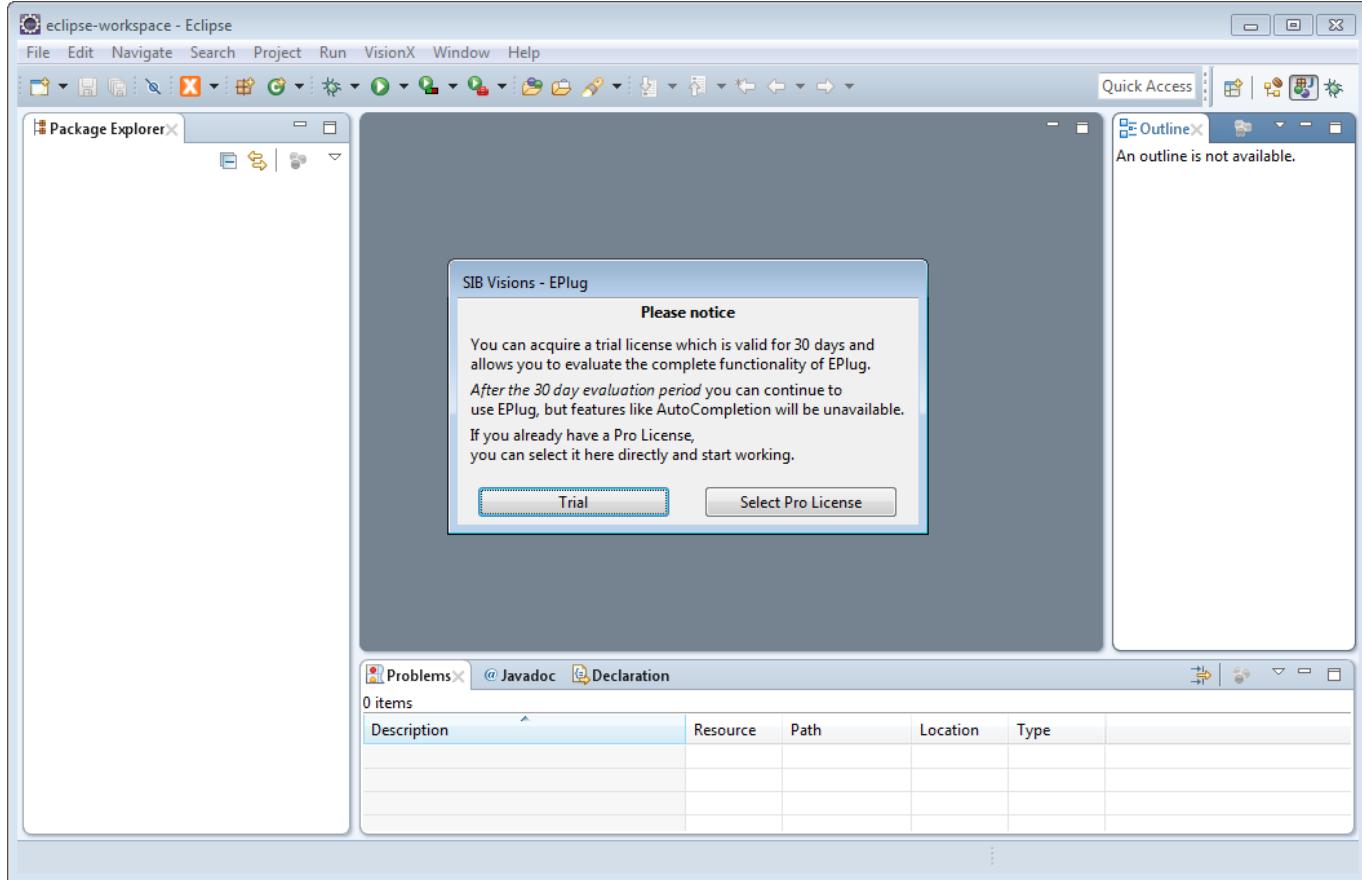


The screenshot shows the Eclipse Marketplace interface. The left sidebar has sections for 'MARKETS', 'SEARCH' (with a search bar and 'ADVANCED SEARCH' button), and 'MORE LIKE THIS' (with a link to 'EPlug for IVx'). The main content area is titled 'EPlug for VisionX' and includes tabs for 'Details', 'Screenshots', 'Metrics', 'Errors', and 'External Install Button'. The 'Details' tab contains a description of VisionX as a Java-based ERP platform, mentioning its efficiency, lightweight design, and scalability. It also highlights the 'Install' button, which is the focal point of the screenshot. The 'Screenshots' tab shows a small thumbnail of a VisionX interface. The 'Metrics' tab shows zero stars and zero reviews. The 'Errors' tab is empty. The 'External Install Button' tab is also empty. The URL in the browser bar is <https://marketplace.eclipse.org/content/eplug-visionx>.

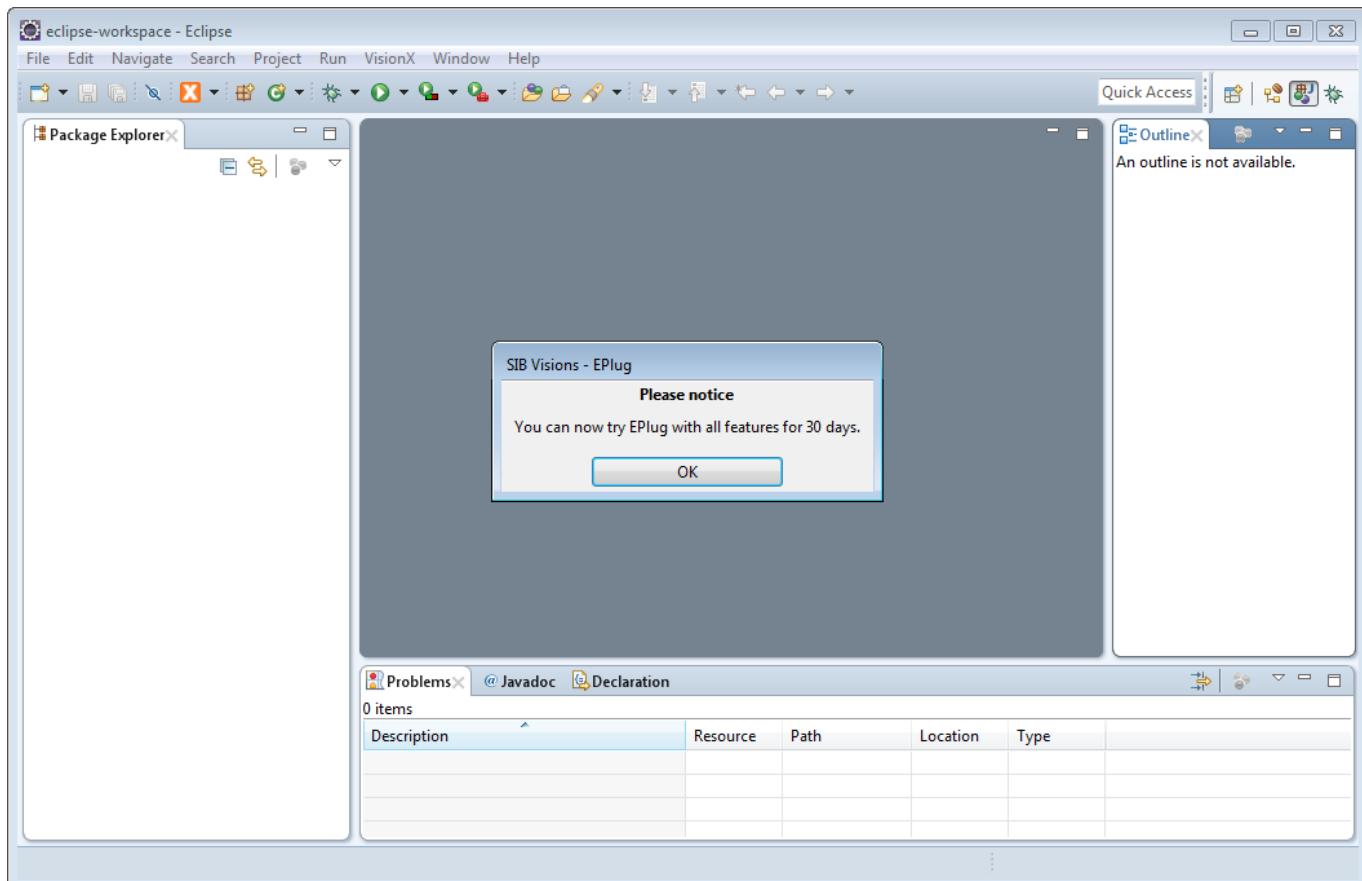
Drag the “Install” into the running Eclipse instance to install the plugin.

License and Trial

When Eclipse started the first time after EPlug has been installed, a prompt is opened to either select a commercial license file from the local disk or to request a new trial license from the license server.



When a new trial license is requested, the license server will be contacted and a new, unique trial license will be issued.



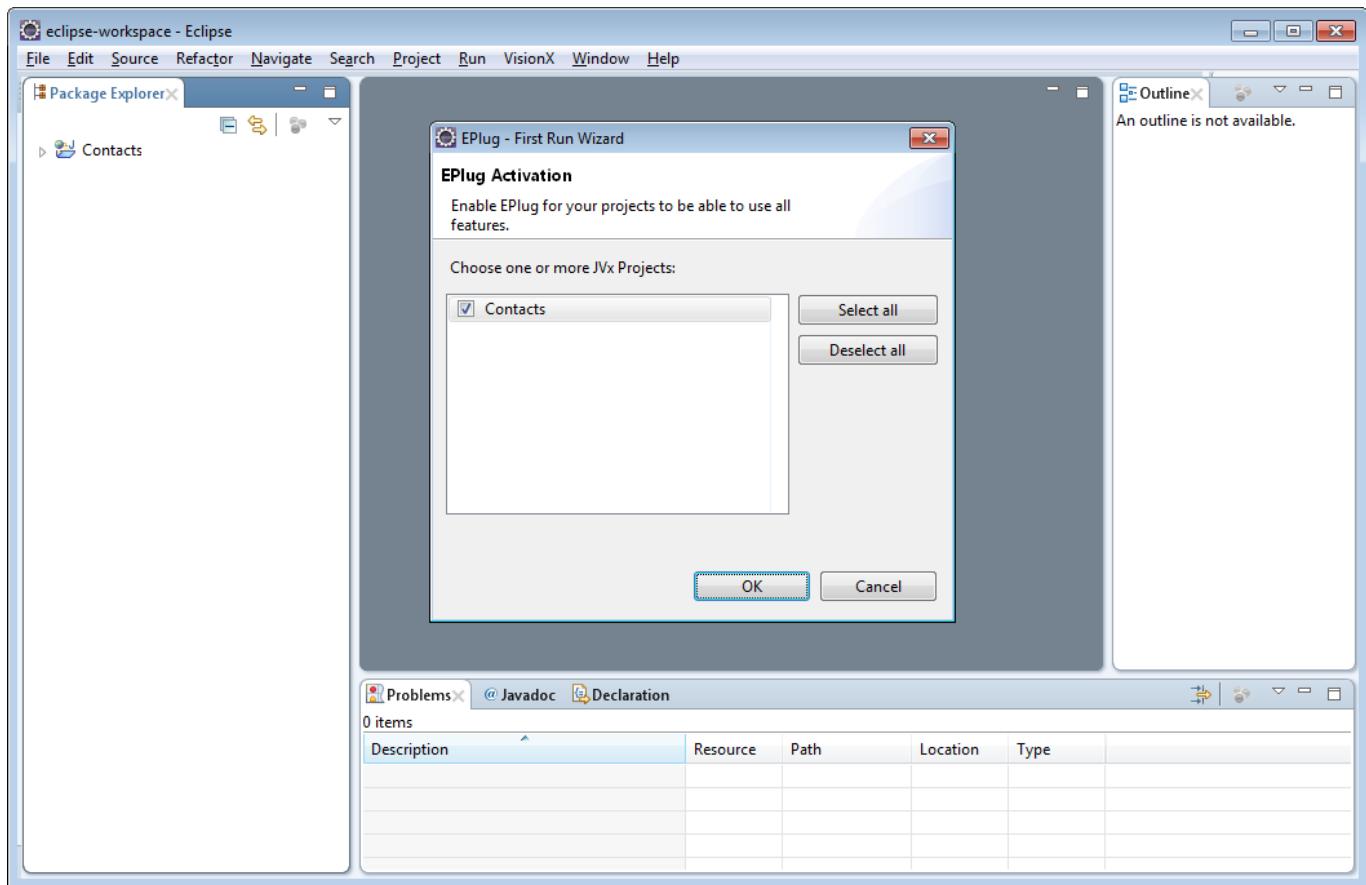
A commercial license can also be selected anytime in the preferences under EPlug -> License.



In the preferences, you can also view various information about the license, including the time remaining until it is expiring if it is a trial license.

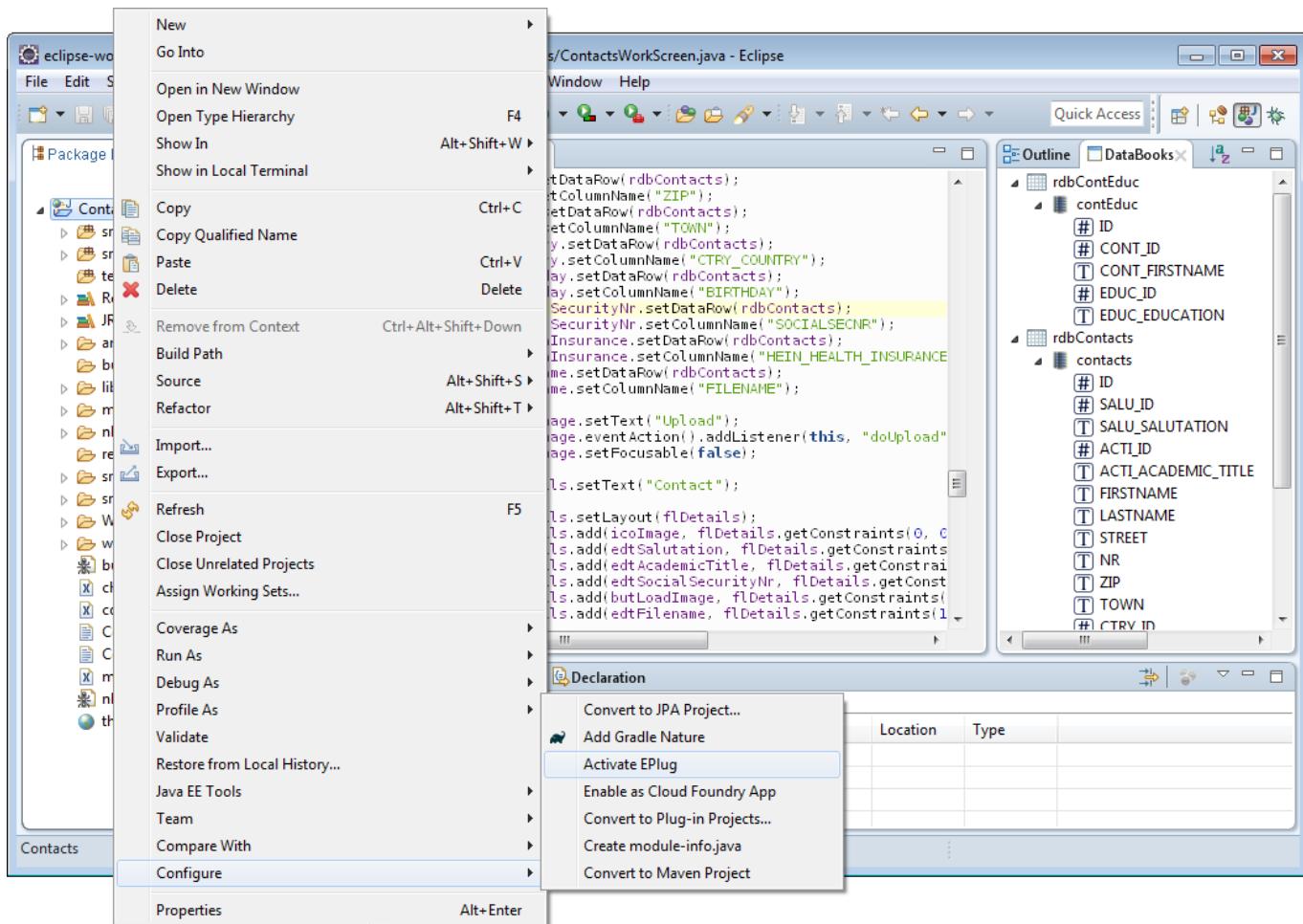
Using EPlug

For all features to be available, EPlug must be activated on the current project. This can be done through the First Run Wizard which is displayed when Eclipse is started the first time after the EPlug installation.



Select all projects on which you want to enable EPlug and press “OK”.

Afterwards, EPlug can be activated on single projects through the project context menu.

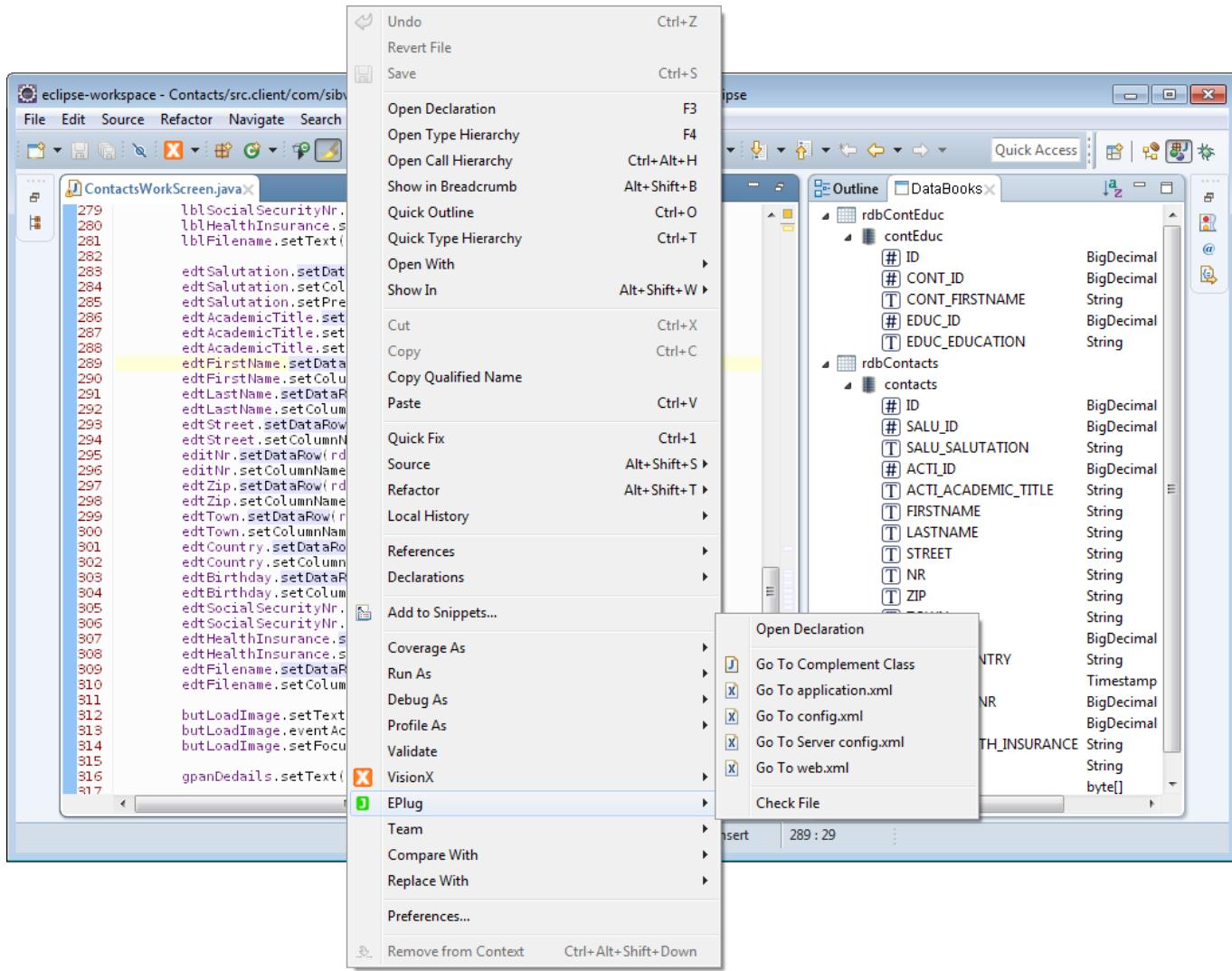


Or through the project preferences.



Commands

EPlug provides various commands which can be used to navigate the project. These are either available from the context menu on a source file or can be assigned custom keybindings through the Eclipse preferences.



Open Declaration

Extends the Eclipse “Open Declaration” command to be able to also jump to the declarations of actions and server calls. Because it extends the built-in functionality, this can be used as a replacement for the built-in command.

Go to Complement Class

Opens the complement class of the currently open file.

The complement class is the “counterpart” of every class on the client or server. So, when invoked on a workscreen (client-side), it will open the server-side LCO class and vice versa.

Go to application.xml

Opens the application.xml file of the project.

Go to config.xml

Opens the client-side config.xml file of the project.

Go to Server config.xml

Opens the server-side config.xml file of the project.

Go to web.xml

Opens the web.xml file of the project.

Check File

Runs all EPlug checks on the file without building it anew.

DataBooks

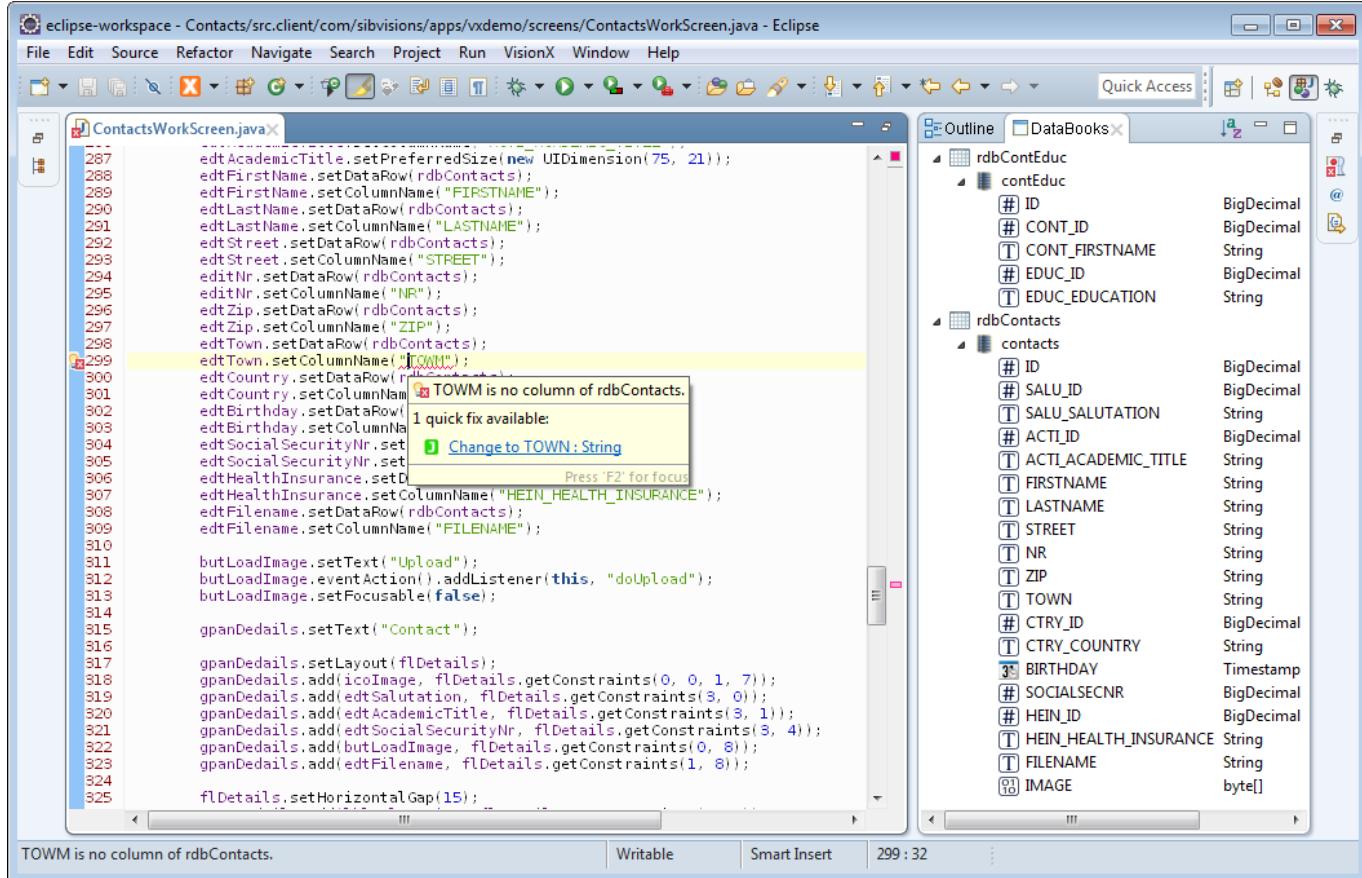
The biggest and most important feature of EPlug is the support for DataBooks, both RemoteDataBooks and MemDataBooks to be exact.

Because DataBooks use Strings to identify columns (instead of properties or Enums), it cannot be covered by the default functionality of Eclipse and the Java compiler. EPlug extends Eclipse with additional functionality to be able to provide various features on and around DataBooks and column names.

Both the RemoteDataBook and the MemDataBook are supported out of the box. In the case of a MemDataBook, the metadata is not requested from the data source (because there is none), but the metadata is directly extracted from the code itself.

Compile Time Checks

Column names are checked during compilation if they are correct or not. This is done by actually requesting the metadata from the data source and comparing the names against it. In the case of the MemDataBook, the metadata is built directly from the code.

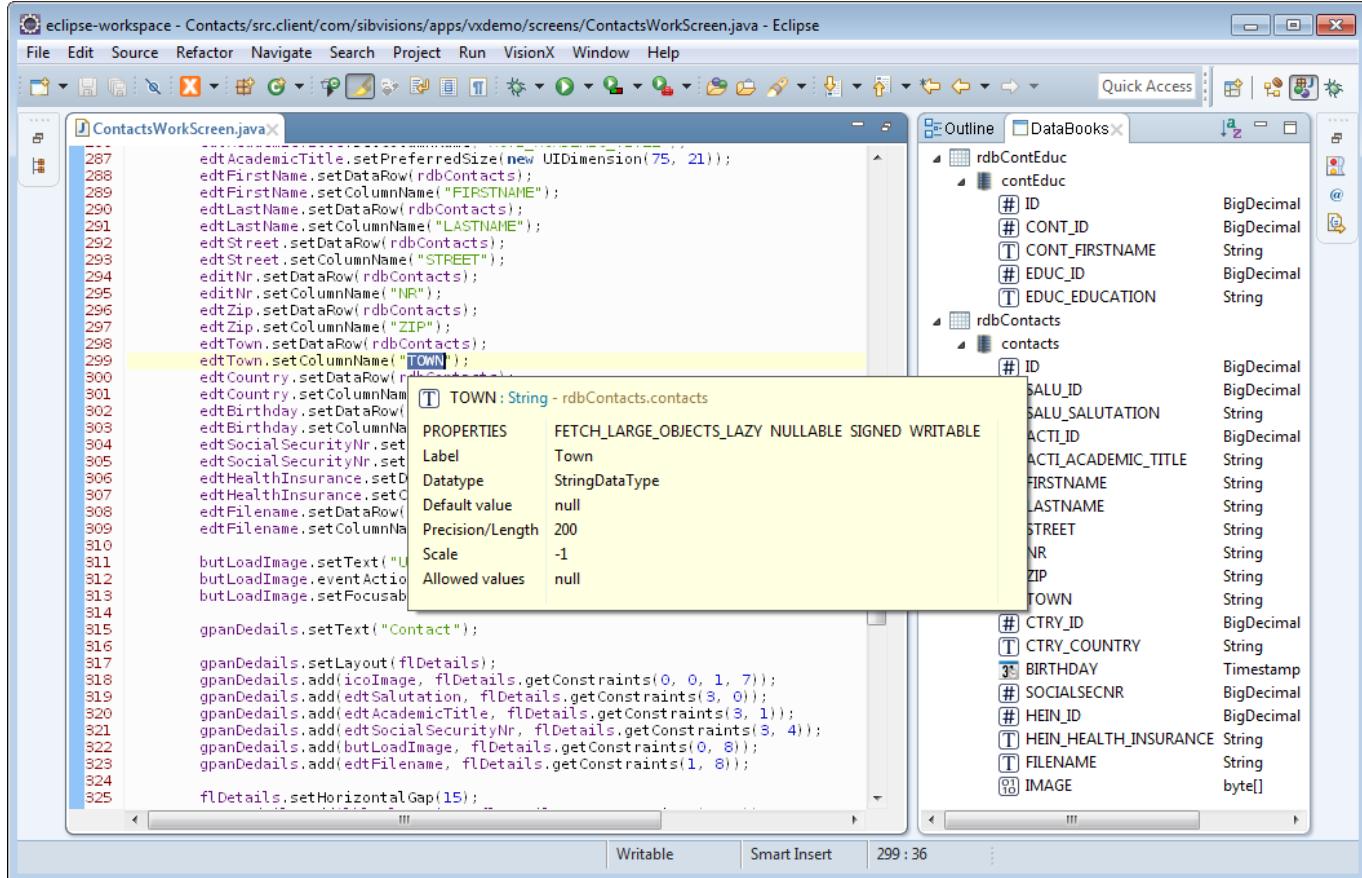


Quick fixes are provided in the case that a column name has been misspelled to make it easier to fix simple errors.

Hover Tips

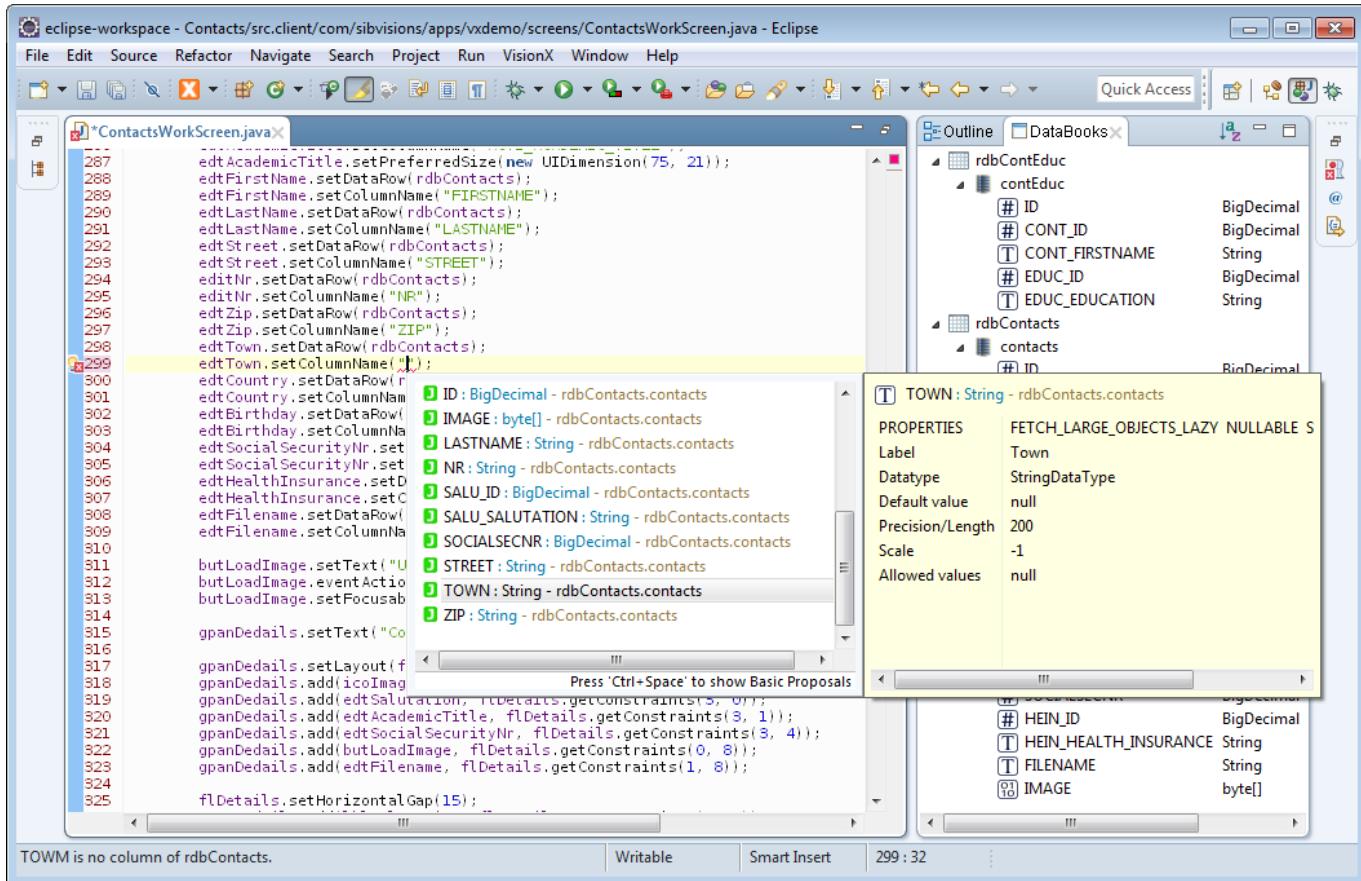
When hovering over a column name, a hover tip is displayed that shows all the information about the column that is available. The information includes:

- Name
- Datatype
- Label
- Default value
- And various other properties



Code Completion

Column names are also offered in the code completion dialog as well as all available information about them.



The same information as in the hover tips is being displayed alongside all columns that can be selected in the code completion dialog.

DataBooks View

Additionally, there is the DataBooks view which lists all DataBooks and all columns in the currently edited file together with their datatype and label.



The view can be added to the Eclipse perspective in the menu under **Window -> Show View -> Other....**

Preferences

The behavior of the DataBooks plugin can be changed by changing the project preferences.



Check the DataBooks on Refresh

When enabled, DataBooks are checked when a refresh of the file is performed and not only when the file is build.

Check DataBooks While You Type

When enabled, DataBooks are checked as you type without the need to save and/or build the file.

This is especially useful when working with MemDataBooks, as their metadata might have been typed just seconds before being used.

Build Options

The build behavior can also be changed in the project preferences.



Action When No Metadata Was Provided

This option allows you to control how the plugin behaves when no metadata could be acquired for the DataBook that is being checked. Please note that “no metadata could be acquired” is not the same as “acquiring failed”. For example, it could be that a DataBook is the parameter of a function. In that case, is not possible to determine from where the DataBook originated, and so no metadata can be determined.

With this option, the behavior for such a situation can be controlled, whether the plugin should issue a notice/warning/error or do nothing.

Check DataSource of RemoteDataBooks

This option allows you to control whether the datasource on RemoteDataBooks should be checked if it is correctly set or not. This is basically a check if the name of the RemoteDataBook can be mapped to a server-side storage object.

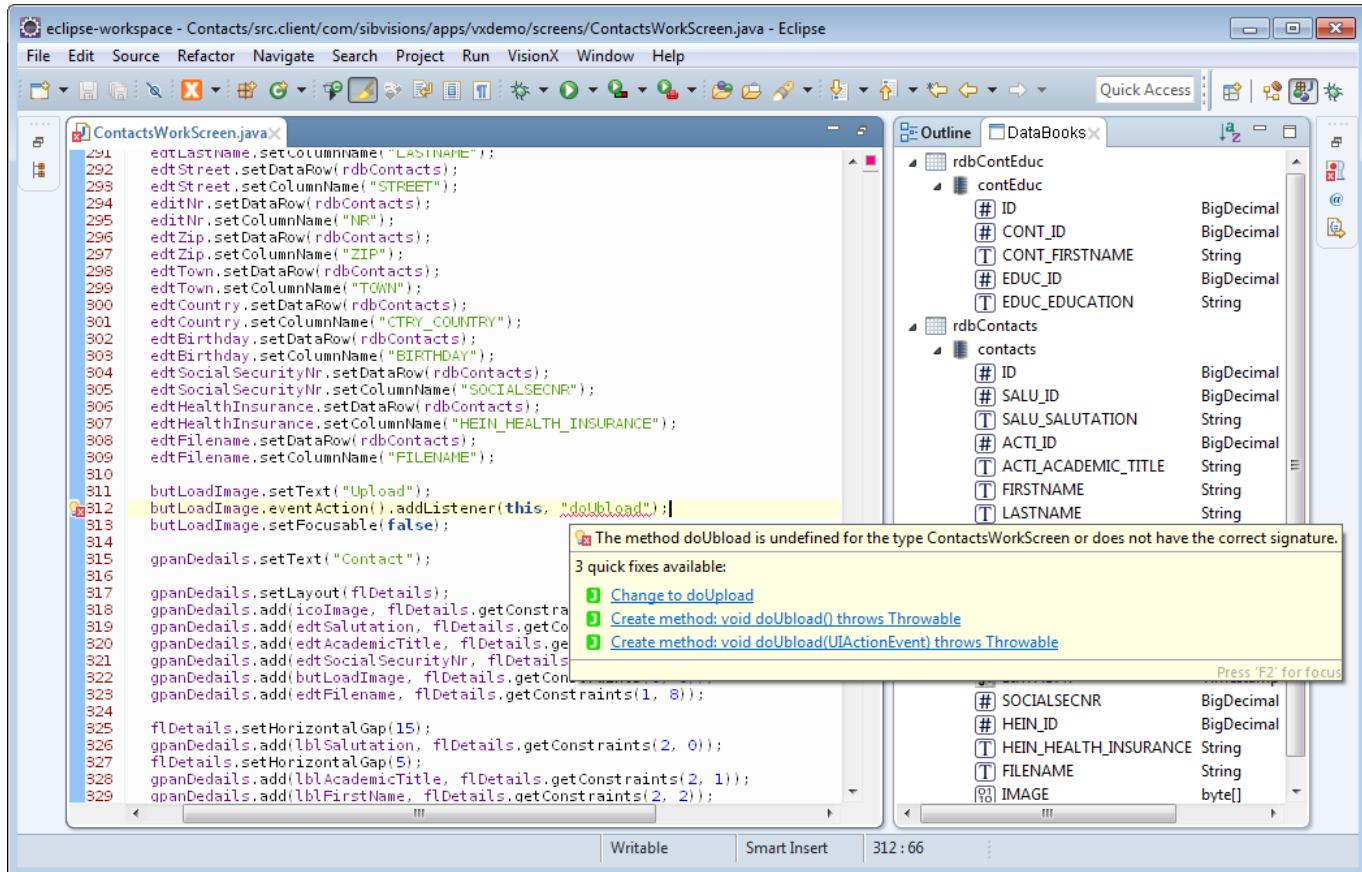
Actions

Another pillar of EPlug is the support for actions. Actions are a simple mechanism which provide the ability to use method references by specifying an object and the name of the method. The ability to use “real” method references has only lately become an integrated functionality of the JRE and of course [JVx](#) does also support this.

Out of the box the EPlug support for actions does support all EventHandler extensions and various other methods.

Compile Time Checks

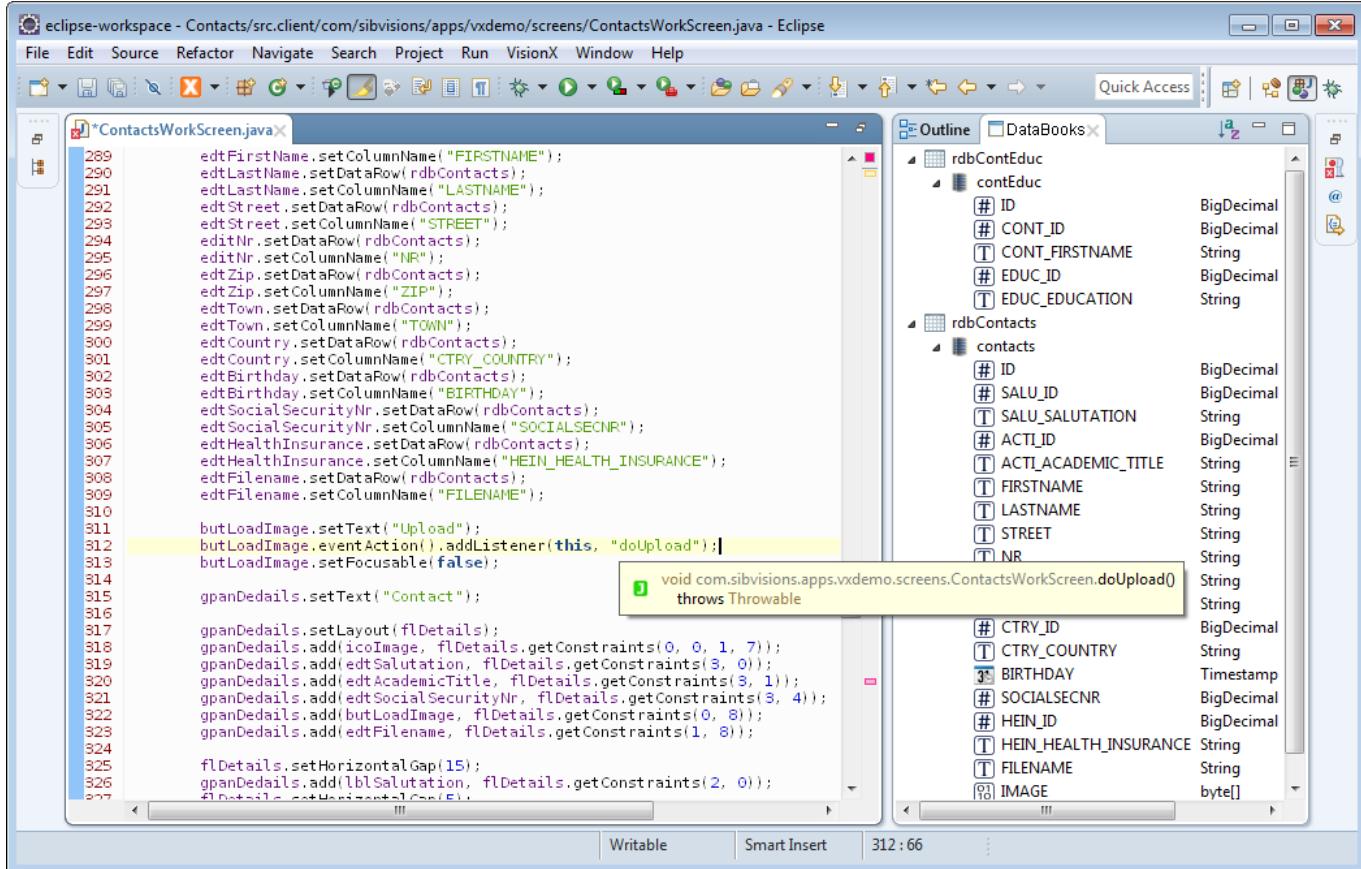
The action names and references are checked during compilation for their existence and correct signature.



Quick fixes are provided in the case that a method name has been misspelled or is non-existent.

Hover Tips

When hovering over the action name, a basic hover tip is provided which displays the most important information about the function.

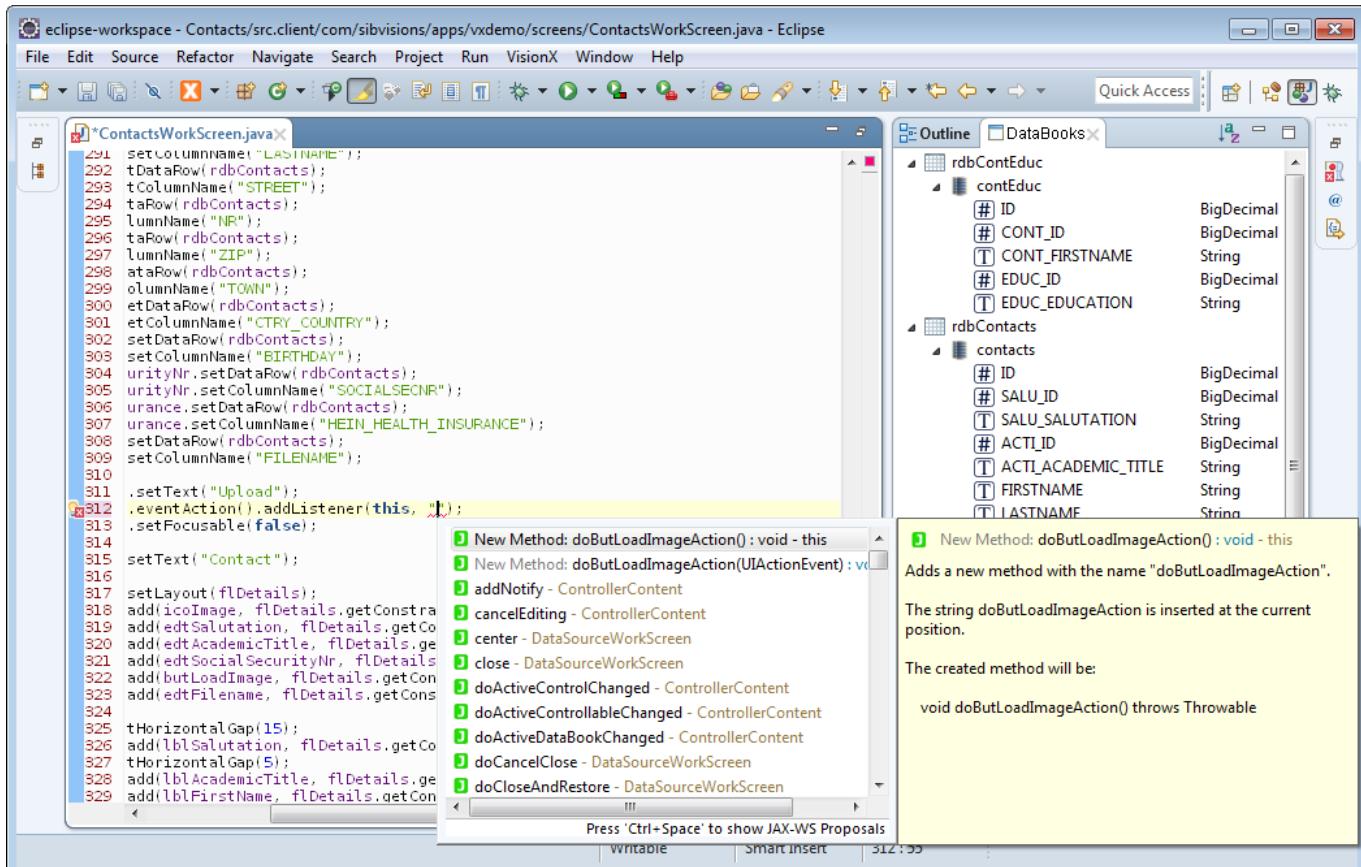


The screenshot shows the Eclipse IDE interface with the following details:

- File:** eclipse-workspace - Contacts/src/client/com/sibvisions/apps/vxdemo/screens/ContactsWorkScreen.java - Eclipse
- Code Editor:** The code for `ContactsWorkScreen.java` is displayed. A code completion dialog is open at line 312, showing the method `void com.sibvisions.apps.vxdemo.screens.ContactsWorkScreen.doUpload()`.
- Outline View:** The right-hand panel shows the `Outline` and `DataBooks` tabs. The `Outline` tab displays the structure of the `rbContEduc` and `rbContacts` objects, including their properties and data types.
- Properties View:** The `DataBooks` tab shows the properties of the `rbContEduc` and `rbContacts` objects, including their names and data types.

Code Completion

Action listener names are also offered in the code completion dialog.

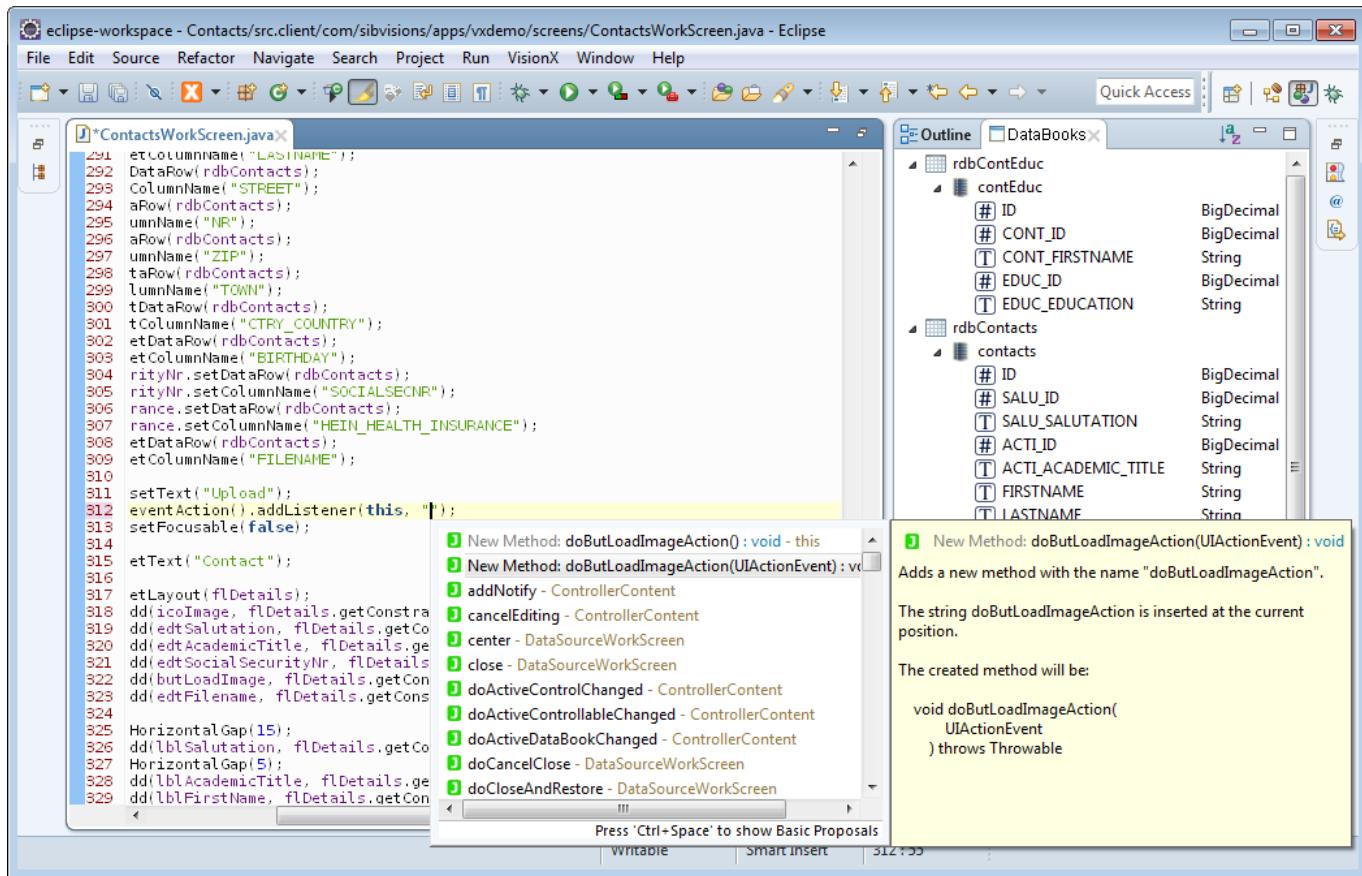


The screenshot shows the Eclipse IDE interface with the following details:

- File:** eclipse-workspace - Contacts/src/client/com/sibvisions/apps/vxdemo/screens/ContactsWorkScreen.java - Eclipse
- Code Editor:** The code for `ContactsWorkScreen.java` is displayed. A code completion dialog is open at line 312, showing the action listener name `doButLoadImageAction`.
- Outline View:** The right-hand panel shows the `Outline` and `DataBooks` tabs. The `Outline` tab displays the structure of the `rbContEduc` and `rbContacts` objects, including their properties and data types.
- Properties View:** The `DataBooks` tab shows the properties of the `rbContEduc` and `rbContacts` objects, including their names and data types.
- Code Completion Dialog:** The dialog box contains the following text:
 - New Method: doButLoadImageAction() : void - this**
 - New Method: doButLoadImageAction(UIActionEvent) : void - this**
 - addNotify - ControllerContent**
 - cancelEditing - ControllerContent**
 - center - DataSourceWorkScreen**
 - close - DataSourceWorkScreen**
 - doActiveControlChanged - ControllerContent**
 - doActiveControllableChanged - ControllerContent**
 - doActiveDataBookChanged - ControllerContent**
 - doCancelClose - DataSourceWorkScreen**
 - doCloseAndRestore - DataSourceWorkScreen**

Templates

To make it easier to create and add listeners, two templates are available from the code completion list that automatically create listener methods when chosen.



The first option creates a new listener method without any parameters, the second creates a listener method with the action specific parameters. The new method is inserted at the end of the class and can be edited directly.

```

394     try
395     {
396         rdbContacts.saveSelectedRow();
397     }
398     catch (Exception pException)
399     {
400         // Silent Save of current row.
401     }
402     else
403     {
404         throw new IOException("Image format '" + sFormat + "' not supported");
405     }
406 }
407
408 // ~~~~~
409 // Actions
410 // ~~~~~
411 /**
412 * Starts the image upload.
413 *
414 * @throws Throwable if an error occurs.
415 */
416 public void doUpload() throws Throwable
417 {
418     if (rdbContacts.getSelectedRow() >= 0)
419     {
420         getApplication().getLauncher().getFileHandle(this, "storeFile");
421     }
422 }
423
424 public void doButLoadImageAction(UIActionEvent event) throws Throwable {
425 }
426
427 }
428 // ContactsWorkScreen
429
430
431 } // ContactsWorkScreen

```

Writable Smart Insert 428:9

Outline DataBooks

- rdbContEduc
 - contEduc
 - # ID BigDecimal
 - # CONT_ID BigDecimal
 - T CONT_FIRSTNAME String
 - # EDUC_ID BigDecimal
 - T EDUC_EDUCATION String
- rdbContacts
 - contacts
 - # ID BigDecimal
 - # SALU_ID BigDecimal
 - T SALU_SALUTATION String
 - # ACTL_ID BigDecimal
 - T ACTL_ACADEMIC_TITLE String
 - T FIRSTNAME String
 - T LASTNAME String
 - T STREET String
 - T NR String
 - T ZIP String
 - T TOWN String
 - # CTRY_ID BigDecimal
 - T CTRY_COUNTRY String
 - T BIRTHDAY Timestamp
 - # SOCIALSECNR BigDecimal
 - # HEIN_ID BigDecimal
 - T HEIN_HEALTH_INSURANCE String
 - T FILENAME String
 - # IMAGE byte[]

Refactoring Support

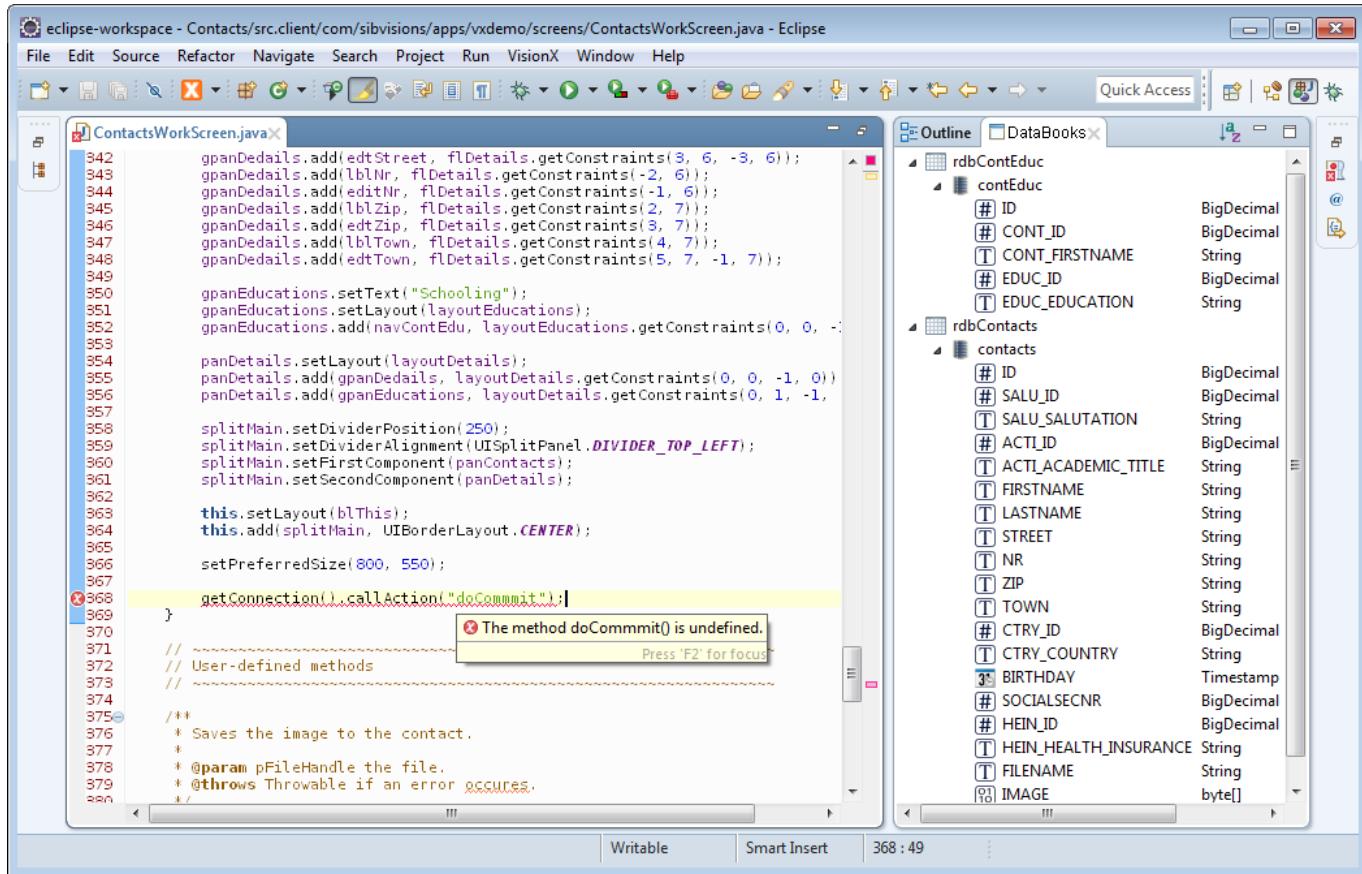
When an action listener is refactored through the provided mechanisms of Eclipse, the references to it are automatically refactored too.

Server Calls/Actions

Through the connection of the application, it is possible to directly execute functions and actions on the server. JVx allows you to do this by specifying the function name to call on the server and appending the parameters for the to be called function.

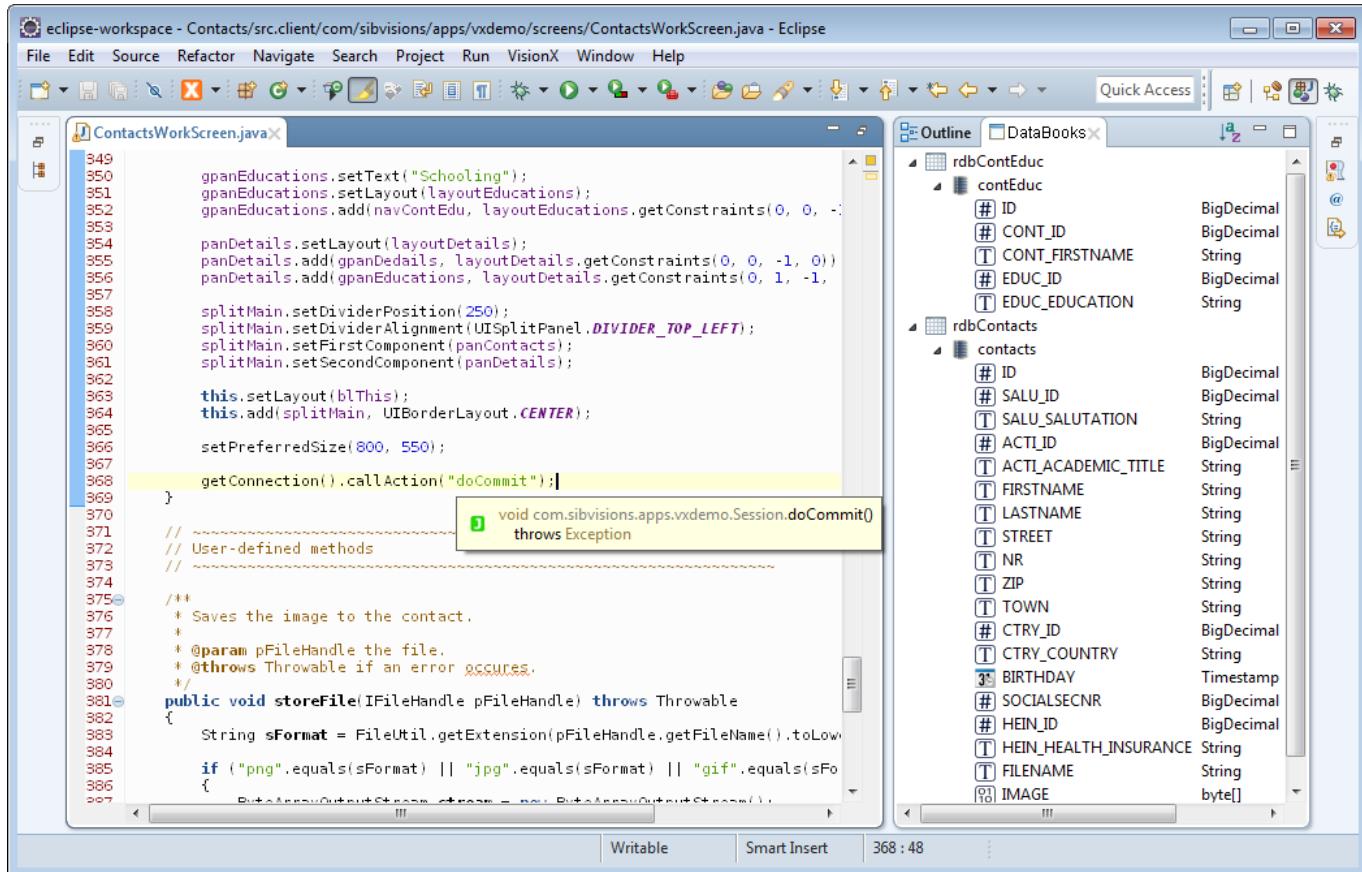
Compile Time Checks

The server calls/actions are checked during compilation for their existence and whether the correct parameters have been provided.



Hover Tips

When hovering over the name of a server call/action, a basic hover tip is provided which displays the most important information about the function.



The screenshot shows the Eclipse IDE interface with the 'ContactsWorkScreen.java' file open in the editor. The cursor is positioned at line 368, where the code `getConnection().callAction("doCommit");` is being typed. A code completion dropdown is open, showing the method `void com.sibvisions.apps.vxdemo.Session.doCommit()` as the top result. The 'Outline' view on the right shows database schema information for `rdbContEduc` and `rdbContacts` tables.

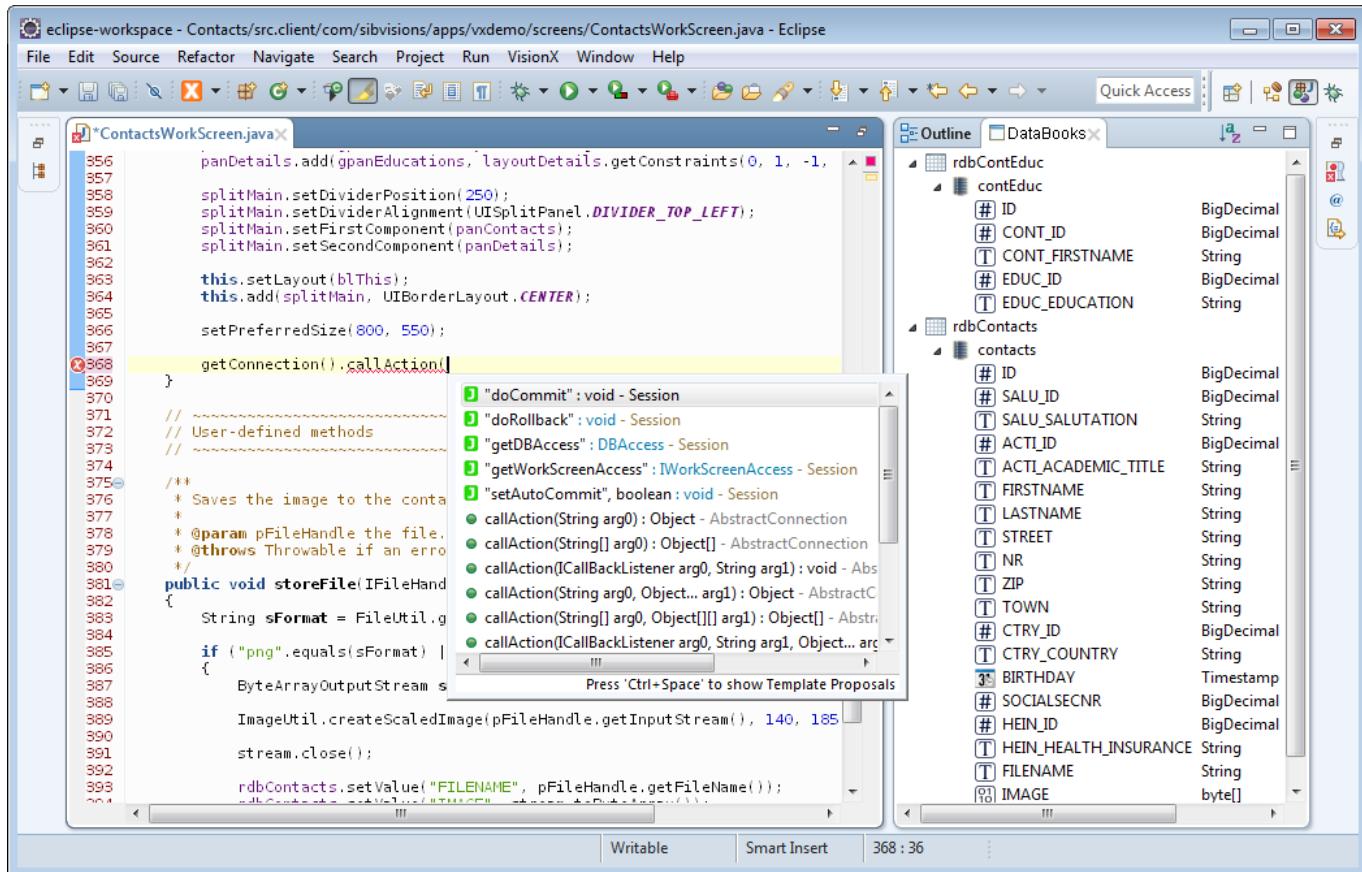
```

349
350     gpanEducations.setText("Schooling");
351     gpanEducations.setLayout(layoutEducations);
352     gpanEducations.add(navContEdu, layoutEducations.getConstraints(0, 0, -1, 1));
353
354     panDetails.setLayout(layoutDetails);
355     panDetails.add(gpanDedails, layoutDetails.getConstraints(0, 0, -1, 0));
356     panDetails.add(gpanEducations, layoutDetails.getConstraints(0, 1, -1, 0));
357
358     splitMain.setDividerPosition(250);
359     splitMain.setDividerAlignment(UISplitPanel.DIVIDER_TOP_LEFT);
360     splitMain.setFirstComponent(panContacts);
361     splitMain.setSecondComponent(panDetails);
362
363     this.setLayout(blThis);
364     this.add(splitMain, UIBorderLayout.CENTER);
365
366     setPreferredSize(800, 550);
367
368     getConnection().callAction("doCommit");
369
370     // ~~~~~
371     // User-defined methods
372     // ~~~~~
373
374     /**
375      * Saves the image to the contact.
376      *
377      * @param pFileHandle the file.
378      * @throws Throwable if an error occurs.
379      */
380     public void storeFile(IFileHandle pFileHandle) throws Throwable
381     {
382         String sFormat = FileUtil.getExtension(pFileHandle.getFileName()).toLowerCase();
383
384         if ("png".equals(sFormat) || "jpg".equals(sFormat) || "gif".equals(sFormat))
385         {
386             ByteOutputStream s
387             ImageUtil.createScaledImage(pFileHandle.getInputStream(), 140, 185);
388
389             stream.close();
390
391             rdbContacts.setValue("FILENAME", pFileHandle.getFileName());
392         }
393     }

```

Code Completion

Server calls/actions are also offered in the code completion dialog.



The screenshot shows the Eclipse IDE interface with the 'ContactsWorkScreen.java' file open in the editor. The cursor is positioned at line 368, where the code `getConnection().callAction(...)` is being typed. A code completion dropdown is open, showing various methods available on the `Session` interface, such as `doCommit`, `doRollback`, and `getDBAccess`. The 'Outline' view on the right shows database schema information for `rdbContEduc` and `rdbContacts` tables.

```

356
357     panDetails.add(gpanEducations, layoutDetails.getConstraints(0, 1, -1, 0));
358
359     splitMain.setDividerPosition(250);
360     splitMain.setDividerAlignment(UISplitPanel.DIVIDER_TOP_LEFT);
361     splitMain.setFirstComponent(panContacts);
362     splitMain.setSecondComponent(panDetails);
363
364     this.setLayout(blThis);
365     this.add(splitMain, UIBorderLayout.CENTER);
366
367     setPreferredSize(800, 550);
368
369     getConnection().callAction(...);
370
371     // ~~~~~
372     // User-defined methods
373     // ~~~~~
374
375     /**
376      * Saves the image to the contact.
377      *
378      * @param pFileHandle the file.
379      * @throws Throwable if an error occurs.
380      */
381     public void storeFile(IFileHandle pFileHandle) throws Throwable
382     {
383         String sFormat = FileUtil.getExtension(pFileHandle.getFileName()).toLowerCase();
384
385         if ("png".equals(sFormat) || "jpg".equals(sFormat) || "gif".equals(sFormat))
386         {
387             ByteOutputStream s
388             ImageUtil.createScaledImage(pFileHandle.getInputStream(), 140, 185);
389
390             stream.close();
391
392             rdbContacts.setValue("FILENAME", pFileHandle.getFileName());
393         }
394     }

```

Build Options

The build behavior can also be changed in the project preferences.



Object Parameters Passed to Server Calls

This option defines how the plugin should treat server calls/actions which are passed with Objects as parameters and whether it should issue a notice/warning/error or do nothing.

This is an especially useful function when one calls a lot of server functions with parameters from DataBooks. Let us assume the following server side function:

```
public String concatName(String title, String firstname, String lastname)
{
    if (StringUtil.isEmpty(title))
    {
        return firstname + " " + lastname;
    }
    else
    {
        return title + " " + firstname + " " + lastname;
    }
}
```

This can be called from the client side:

```
String fullname = getConnection().callAction(
    "concatName",
    rdbContacts.getValue("TITLE"),
    rdbContacts.getValue("FIRSTNAME"),
    rdbContacts.getValue("LASTNAME"));
```

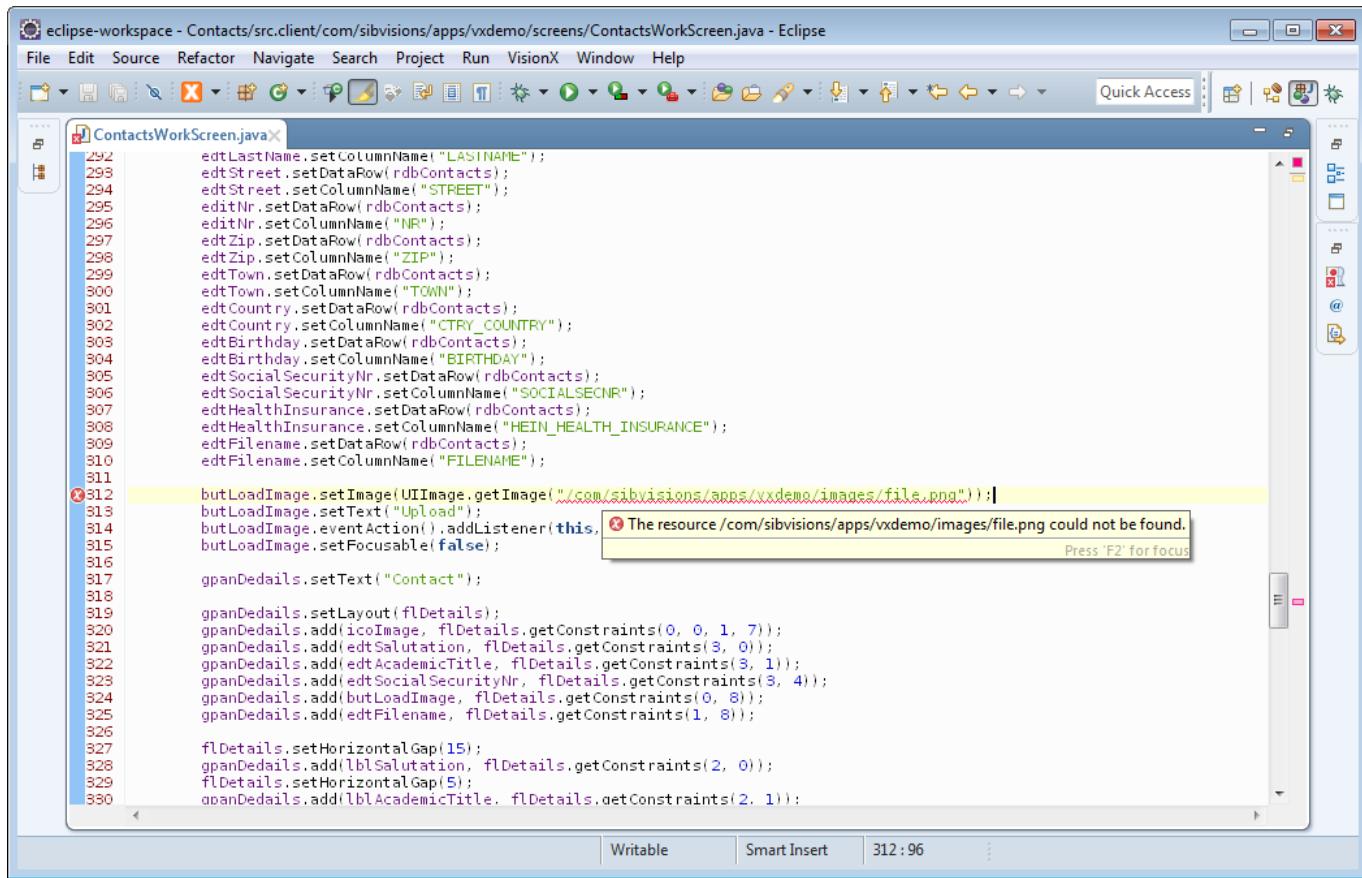
The DataBooks `getValue` function does return by default Objects, but the server side function does expect three parameters of the type `String`. With this option, one can control what the plugin should do if it encounters such a call, whether they should be flagged or not.

Resources

Resources, like embedded images or text files, are important to most applications. In the case of `JVx`, they mostly consist of images which are used to enhance the UI and are loaded through the `UIImage` facility.

Compile Time Checks

The paths of resources are checked during compilation for their existence.

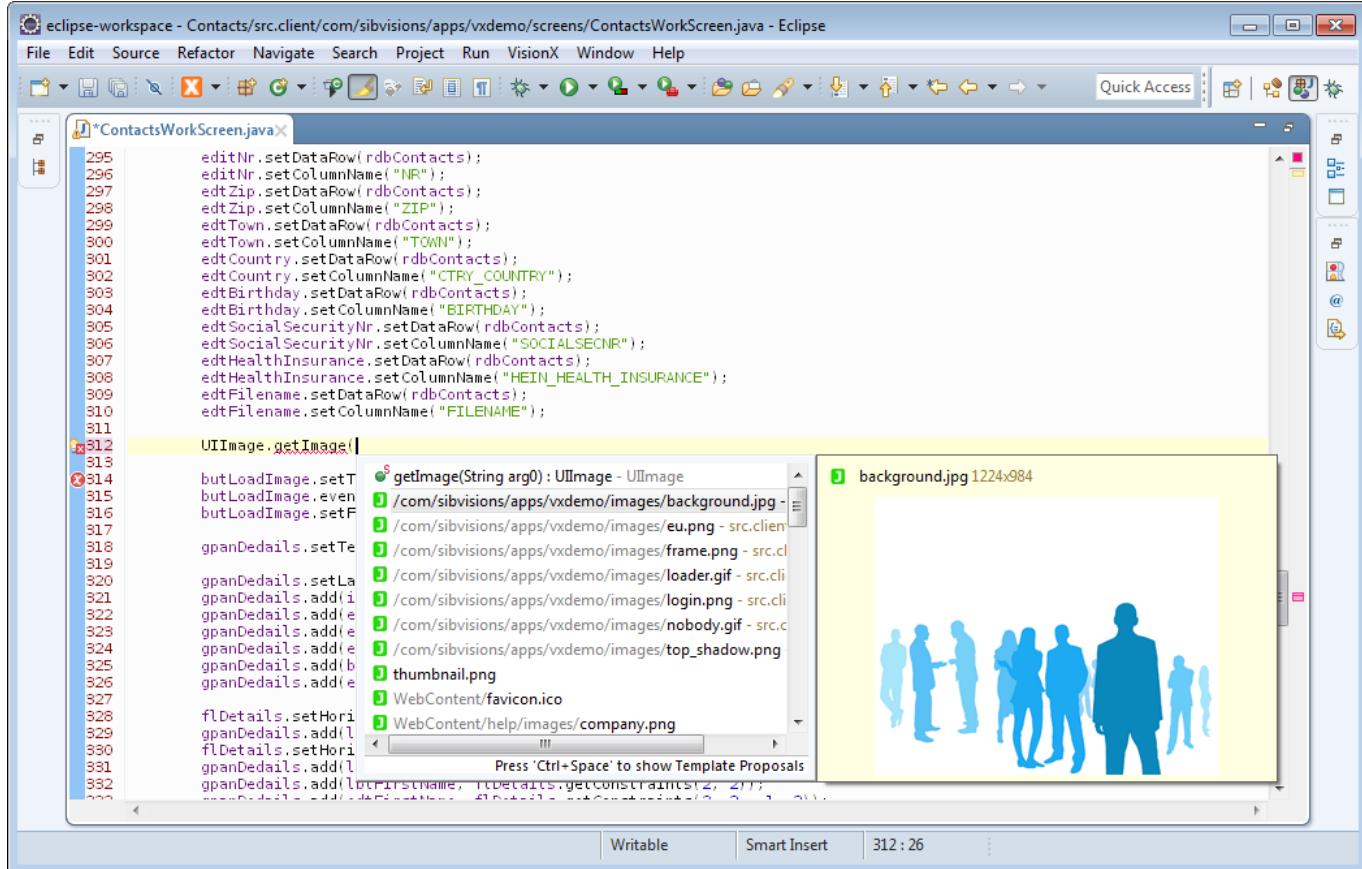


Hover Tips

When hovering over the path of a resource, a hover tip is provided which shows a preview of the image that is being referenced.

Code Completion

The paths of resources are also offered in the code completion dialog, complete with a preview of the image.

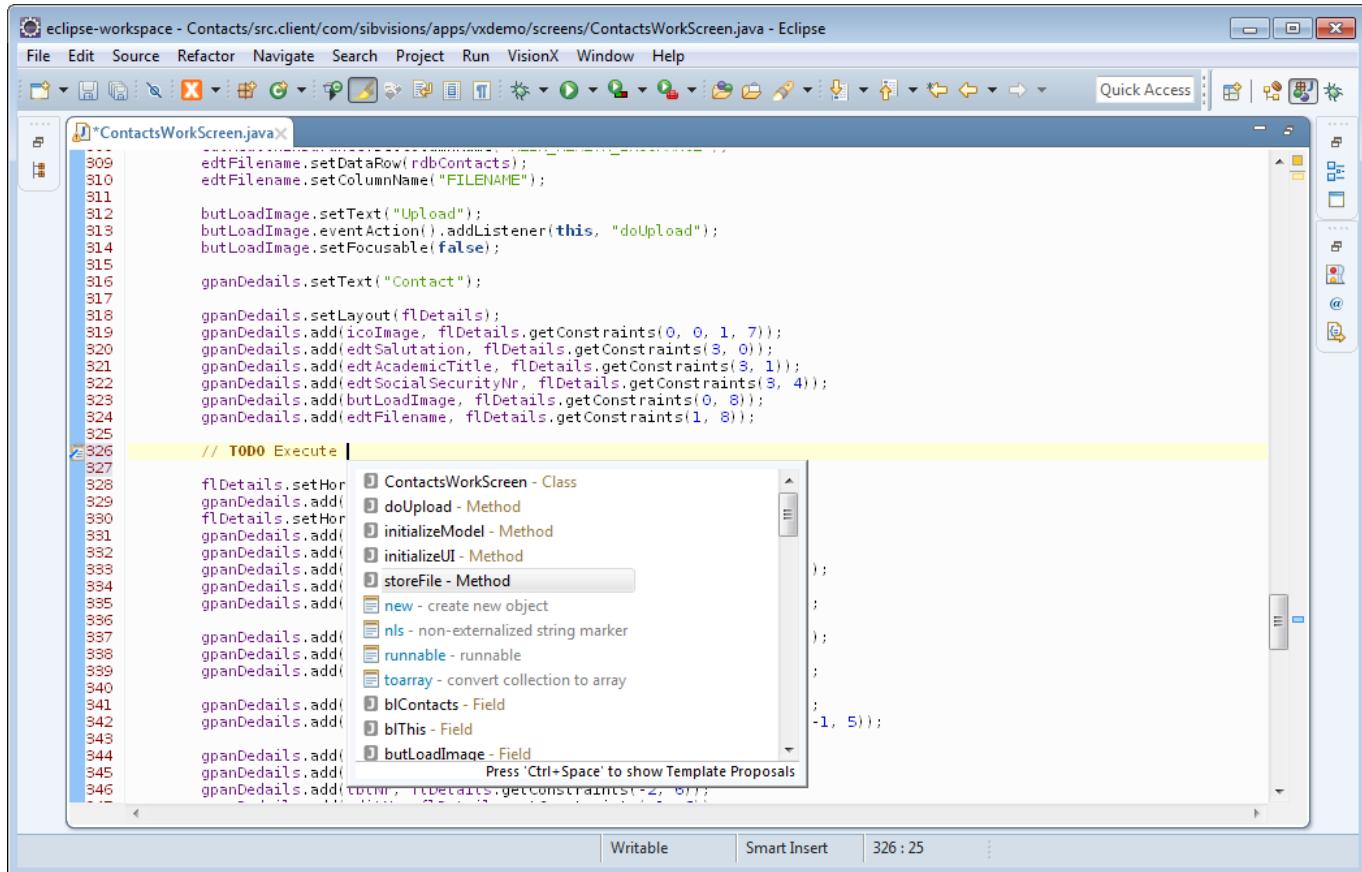


Comments

EPlug offers an additional plugin which provides various utility methods regarding comments.

Code Completion

Code completion for the current class is offered while writing a comment. This includes the class name and all function names.



The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - Contacts/src.client/com/sibvisions/apps/vxdemo/screens/ContactsWorkScreen.java - Eclipse". The main window displays the Java code for the `ContactsWorkScreen` class. A code completion dropdown is open at line 326, showing suggestions for the method `storeFile`. Other suggestions include `new`, `nls`, `Runnable`, `toArray`, `blContacts`, `blThis`, and `butLoadImage`. The code completion bar also includes a note: "Press 'Ctrl+Space' to show Template Proposals".

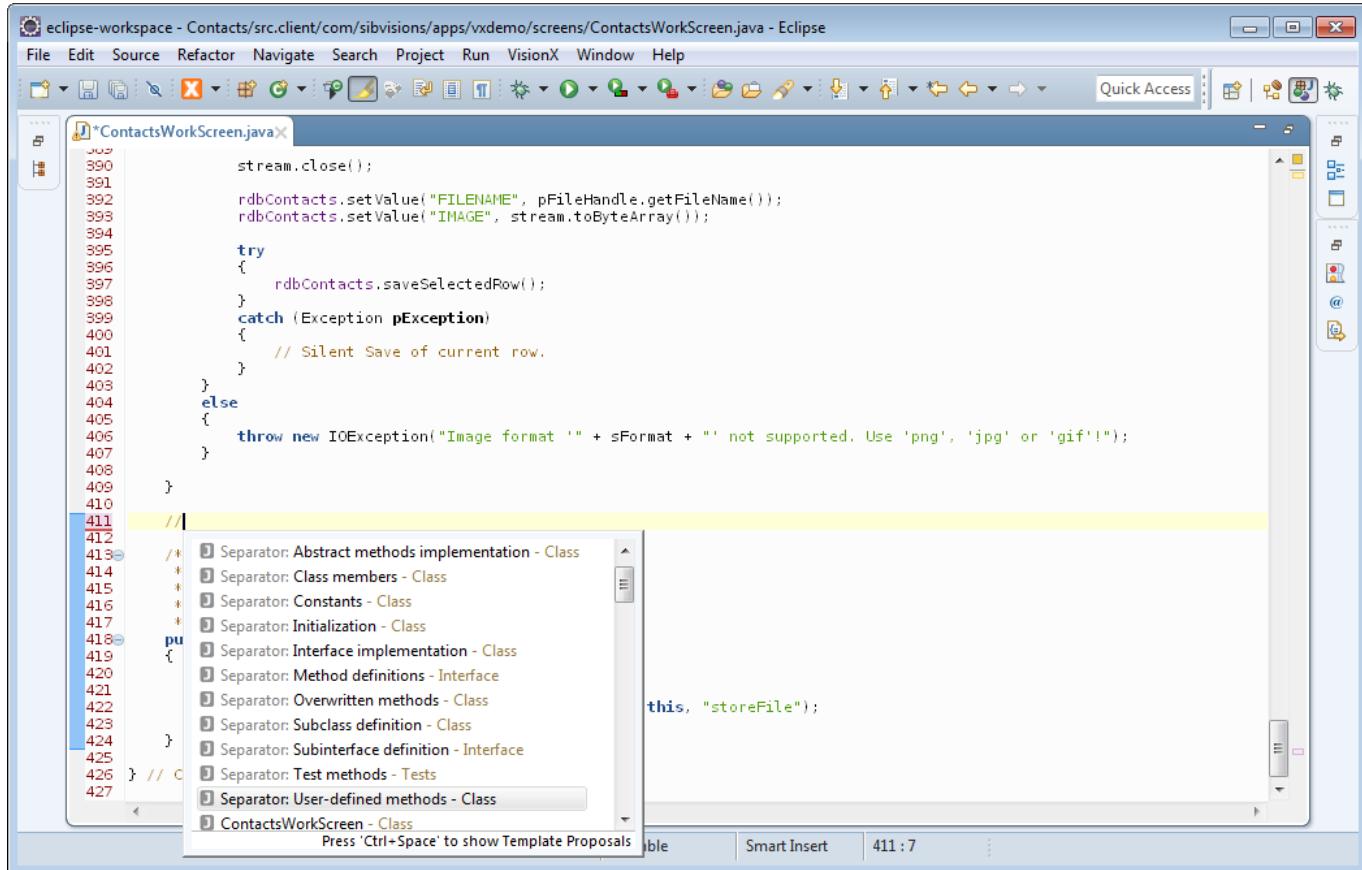
```

309     edtFilename.setDataRow(rdbContacts);
310     edtFilename.setColumnName("FILENAME");
311
312     butLoadImage.setText("Upload");
313     butLoadImage.eventAction().addListener(this, "doUpload");
314     butLoadImage.setFocusable(false);
315
316     gpanDedails.setText("Contact");
317
318     gpanDedails.setLayout(fldDetails);
319     gpanDedails.add(icoImage, fldDetails.getConstraints(0, 0, 1, 7));
320     gpanDedails.add(edtSalutation, fldDetails.getConstraints(3, 0));
321     gpanDedails.add(edtAcademicTitle, fldDetails.getConstraints(3, 1));
322     gpanDedails.add(edtSocialSecurityNr, fldDetails.getConstraints(3, 4));
323     gpanDedails.add(buttonLoadImage, fldDetails.getConstraints(0, 8));
324     gpanDedails.add(edtFilename, fldDetails.getConstraints(1, 8));
325
326     // TODO Execute
327
328     fldDetails.setHor();
329     gpanDedails.add(fldDetails);
330     fldDetails.setHor();
331     gpanDedails.add(fldDetails);
332     gpanDedails.add(fldDetails);
333     gpanDedails.add(fldDetails);
334     gpanDedails.add(fldDetails);
335     gpanDedails.add(fldDetails);
336     gpanDedails.add(fldDetails);
337     gpanDedails.add(fldDetails);
338     gpanDedails.add(fldDetails);
339     gpanDedails.add(fldDetails);
340     gpanDedails.add(fldDetails);
341     gpanDedails.add(fldDetails);
342     gpanDedails.add(fldDetails);
343     gpanDedails.add(fldDetails);
344     gpanDedails.add(fldDetails);
345     gpanDedails.add(fldDetails);
346     gpanDedails.add(fldDetails);
347
348     gpanDedails.setLayout(fldDetails);
349     gpanDedails.getConstraints(0, 0, 1, 7));
350
351     gpanDedails.setLayout(fldDetails);
352     gpanDedails.getConstraints(0, 0, 1, 7));
353
354     gpanDedails.setLayout(fldDetails);
355     gpanDedails.getConstraints(0, 0, 1, 7));
356
357     gpanDedails.setLayout(fldDetails);
358     gpanDedails.getConstraints(0, 0, 1, 7));
359
360     gpanDedails.setLayout(fldDetails);
361     gpanDedails.getConstraints(0, 0, 1, 7));
362
363     gpanDedails.setLayout(fldDetails);
364     gpanDedails.getConstraints(0, 0, 1, 7));
365
366     gpanDedails.setLayout(fldDetails);
367     gpanDedails.getConstraints(0, 0, 1, 7));
368
369     gpanDedails.setLayout(fldDetails);
370     gpanDedails.getConstraints(0, 0, 1, 7));
371
372     gpanDedails.setLayout(fldDetails);
373     gpanDedails.getConstraints(0, 0, 1, 7));
374
375     gpanDedails.setLayout(fldDetails);
376     gpanDedails.getConstraints(0, 0, 1, 7));
377
378     gpanDedails.setLayout(fldDetails);
379     gpanDedails.getConstraints(0, 0, 1, 7));
380
381     gpanDedails.setLayout(fldDetails);
382     gpanDedails.getConstraints(0, 0, 1, 7));
383
384     gpanDedails.setLayout(fldDetails);
385     gpanDedails.getConstraints(0, 0, 1, 7));
386
387     gpanDedails.setLayout(fldDetails);
388     gpanDedails.getConstraints(0, 0, 1, 7));
389
390     stream.close();
391
392     rdbContacts.setValue("FILENAME", pFileHandle.getFileName());
393     rdbContacts.setValue("IMAGE", stream.toByteArray());
394
395     try
396     {
397         rdbContacts.saveSelectedRow();
398     }
399     catch (Exception pException)
400     {
401         // Silent Save of current row.
402     }
403     else
404     {
405         throw new IOException("Image format '" + sFormat + "' not supported. Use 'png', 'jpg' or 'gif'!");
406     }
407
408
409 }
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427 } // C

```

Separators

It is also possible to automatically insert the separators which are used to structure classes.



The screenshot shows the Eclipse IDE interface with the title bar "eclipse-workspace - Contacts/src.client/com/sibvisions/apps/vxdemo/screens/ContactsWorkScreen.java - Eclipse". The main window displays the Java code for the `ContactsWorkScreen` class. A code completion dropdown is open at line 413, showing suggestions for the separator `Abstract methods implementation`. Other suggestions include `Class members`, `Constants`, `Initialization`, `Interface implementation`, `Method definitions`, `Overwritten methods`, `Subclass definition`, `Subinterface definition`, `Test methods`, `User-defined methods`, and the class `ContactsWorkScreen`. The code completion bar also includes a note: "Press 'Ctrl+Space' to show Template Proposals".

```

390     stream.close();
391
392     rdbContacts.setValue("FILENAME", pFileHandle.getFileName());
393     rdbContacts.setValue("IMAGE", stream.toByteArray());
394
395     try
396     {
397         rdbContacts.saveSelectedRow();
398     }
399     catch (Exception pException)
400     {
401         // Silent Save of current row.
402     }
403     else
404     {
405         throw new IOException("Image format '" + sFormat + "' not supported. Use 'png', 'jpg' or 'gif'!");
406     }
407
408
409 }
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427 } // C

```

Additional Build Options

There are additional build options available in the project preferences.



Mixed Use of Client/Server Classes

Allows you to check whether client classes are used on the server or the other way round.

In most deployment environments, the client would have no access to the server classes, and vice versa: the server would not have access to the client classes. As both sources are included in the development classpath, a mixup of the two can easily happen. This option provides a means to make sure that this does not happen, or at least so it can be spotted before deployment.

Check Complement Files During Build

Allows you to enable that complement files are also checked during the build.

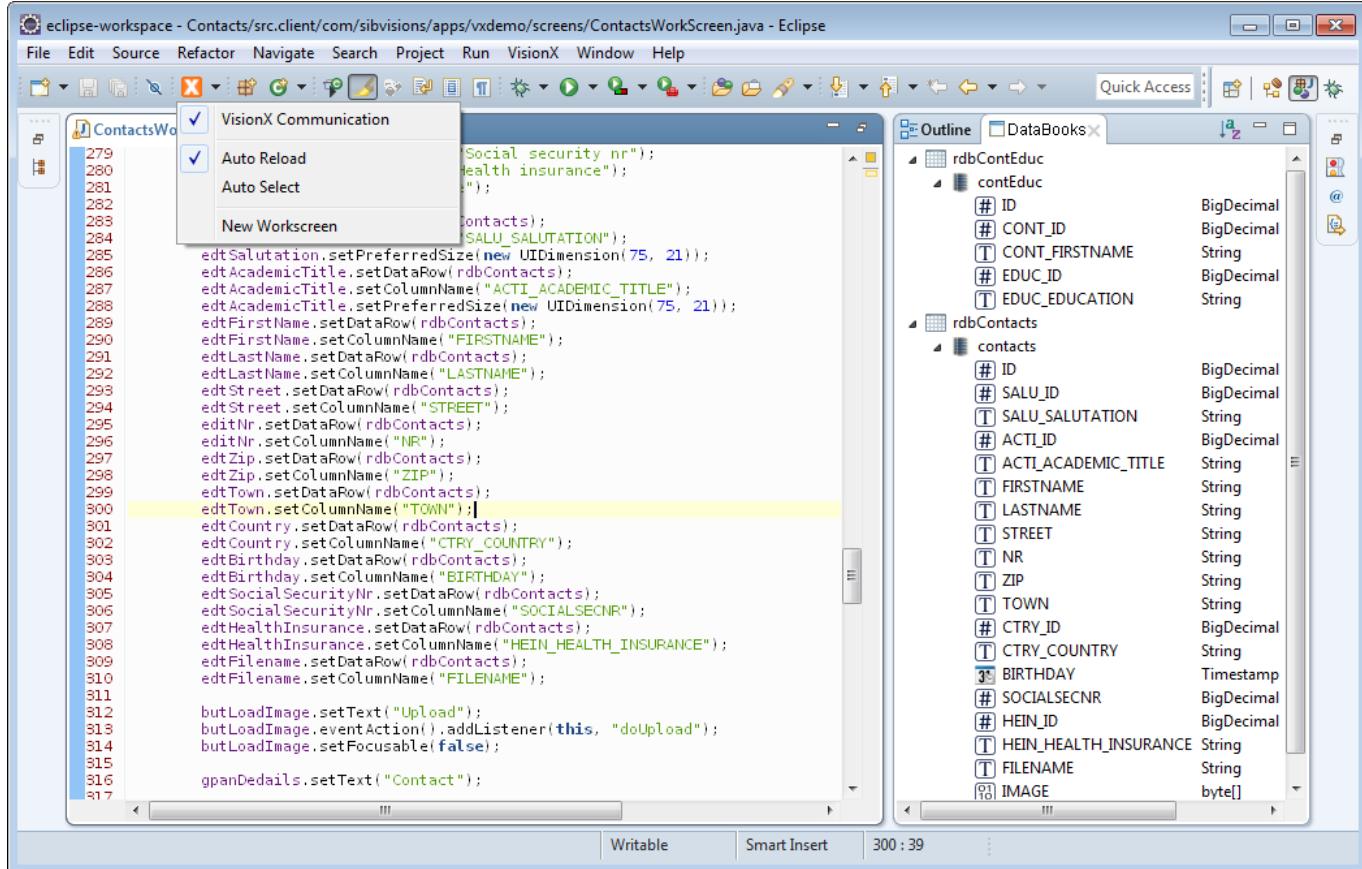
See [Go To Complement Class](#) for more information.

Interaction With VisionX

[VisionX](#) is a rapid application development tool which let's you quickly create, edit, and publish applications. It has the ability to interact with EPlug, and EPlug can interact with [VisionX](#) in a variety of ways.

Connecting With VisionX

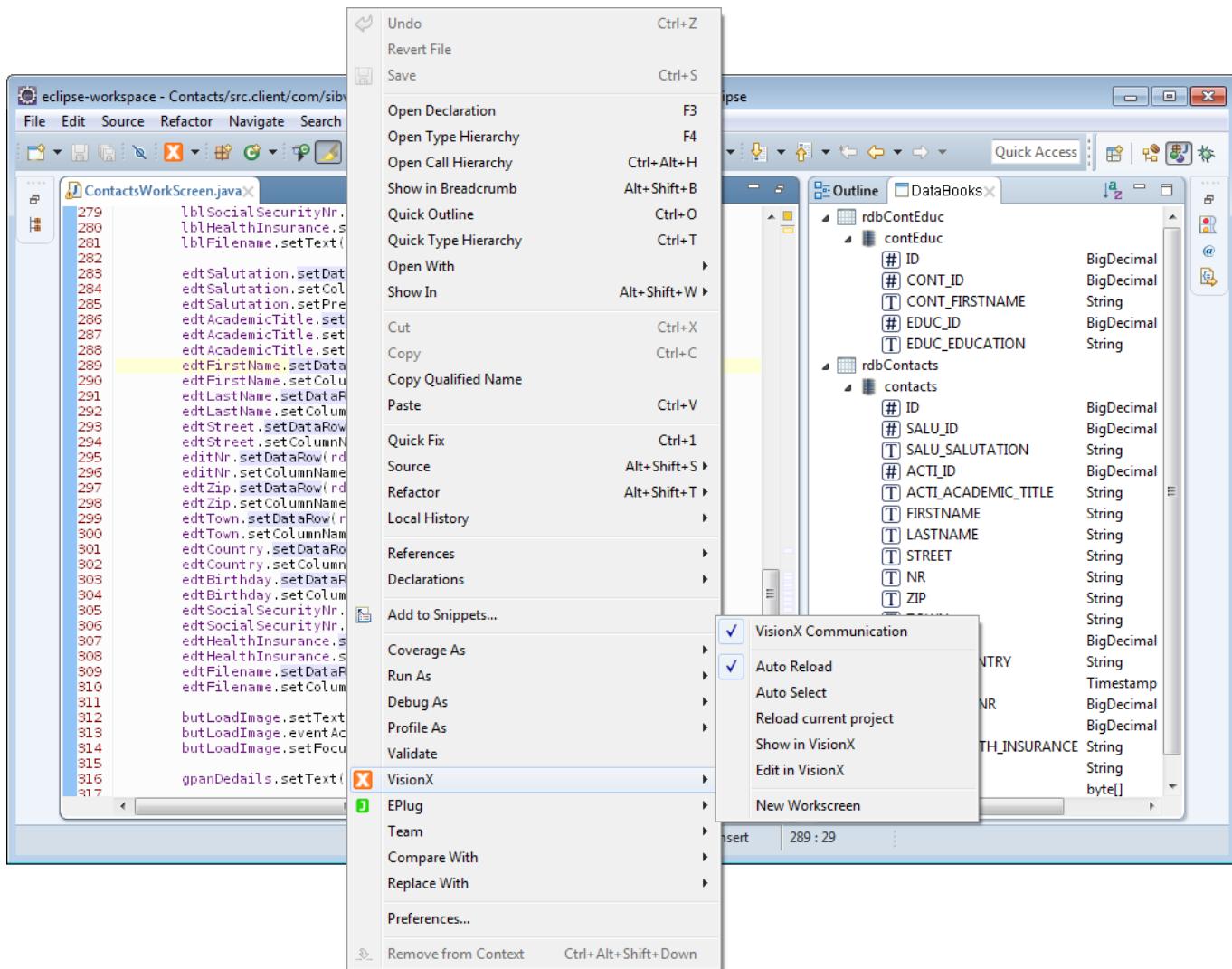
The connection to [VisionX](#) can be toggled by clicking the menu item and selecting the option "VisionX Communication".



The screenshot shows the Eclipse IDE interface with the following details:

- File Bar:** File, Edit, Source, Refactor, Navigate, Search, Project, Run, VisionX, Window, Help.
- Toolbar:** Standard Eclipse toolbar with icons for file operations, search, and project navigation.
- Editor:** Java code editor for `ContactsWorkScreen.java`. The code is for a UI component that handles contact data, including fields for social security number, health insurance, and various address and contact details.
- Context Menu:** A context menu is open over the code editor, showing the following items:
 - VisionX Communication
 - Auto Reload
 - Auto Select
 - New Workscreen
- Outline View:** Shows the database schema with two tables: `rdbContEduc` and `rdbContacts`. `rdbContEduc` has fields: ID (BigDecimal), CONT_ID (BigDecimal), CONT_FIRSTNAME (String), EDUC_ID (BigDecimal), and EDUC_EDUCATION (String). `rdbContacts` has fields: ID (BigDecimal), SALU_ID (BigDecimal), SALU_SALUTATION (String), ACTL_ID (BigDecimal), ACTL_ACADEMIC_TITLE (String), FIRSTNAME (String), LASTNAME (String), STREET (String), NR (String), ZIP (String), TOWN (String), CTRY_ID (BigDecimal), CTRY_COUNTRY (String), BIRTHDAY (Timestamp), SOCIALSECNR (BigDecimal), HEIN_ID (BigDecimal), HEIN_HEALTH_INSURANCE (String), FILENAME (String), and IMAGE (byte[]).

It can also be toggled through the context menu of the editor.



Notification of Changes

EPlug has the ability to inform [VisionX](#) that changes to the sources have occurred, and that it should reload the application. That can be done manually by selecting the command from the menus, or the automatic reloading can be activated.

When automatic reloading is activated, [VisionX](#) will automatically reload the application every time a file in the project has been changed.

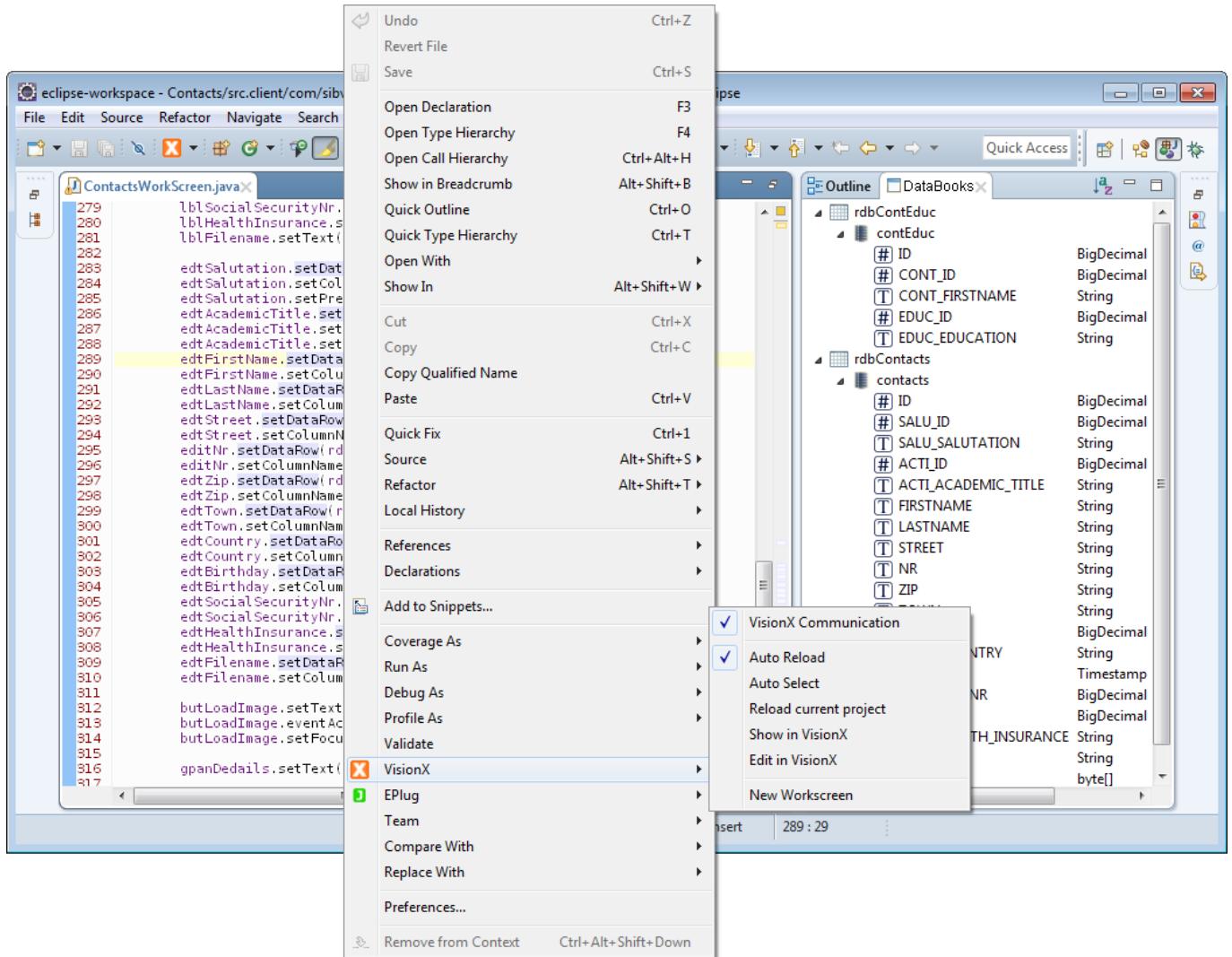
Synchronizing the Selection

The selection between [VisionX](#) can also be synchronized either manually, through the same menus, or by automatic means.

The selection in Eclipse is the position of the cursor in the text editor; the selection in [VisionX](#) is the actual selection of components in the design mode. If design mode is not active in [VisionX](#), it will not be turned on.

Additional Commands

There are various additional commands available to interact with [VisionX](#).



Edit in VisionX

The currently selected item or source file is also selected in [VisionX](#), and the design mode is turned on in [VisionX](#).

New Workscreen

The New Workscreen Wizard is opened in [VisionX](#).

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