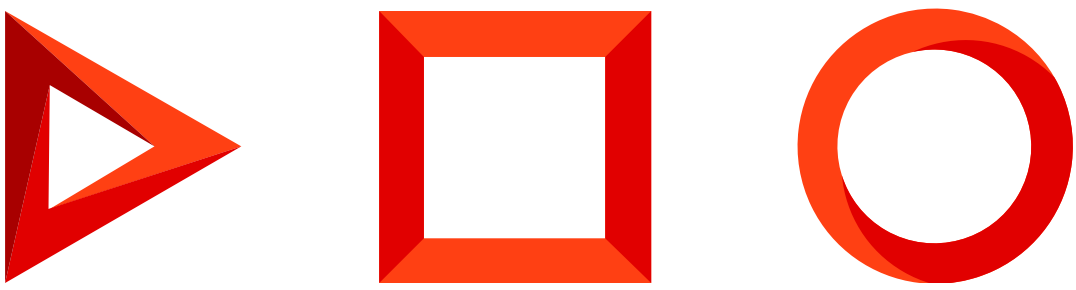
Creatio Academy

Creatio IDE

Client module

Version 8.0



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Client module

Beginner

Configuration elements of the [*Client module*] type are separate functionality blocks you can upload and run on demand. The **purpose** of the client module is front-end Creatio development.

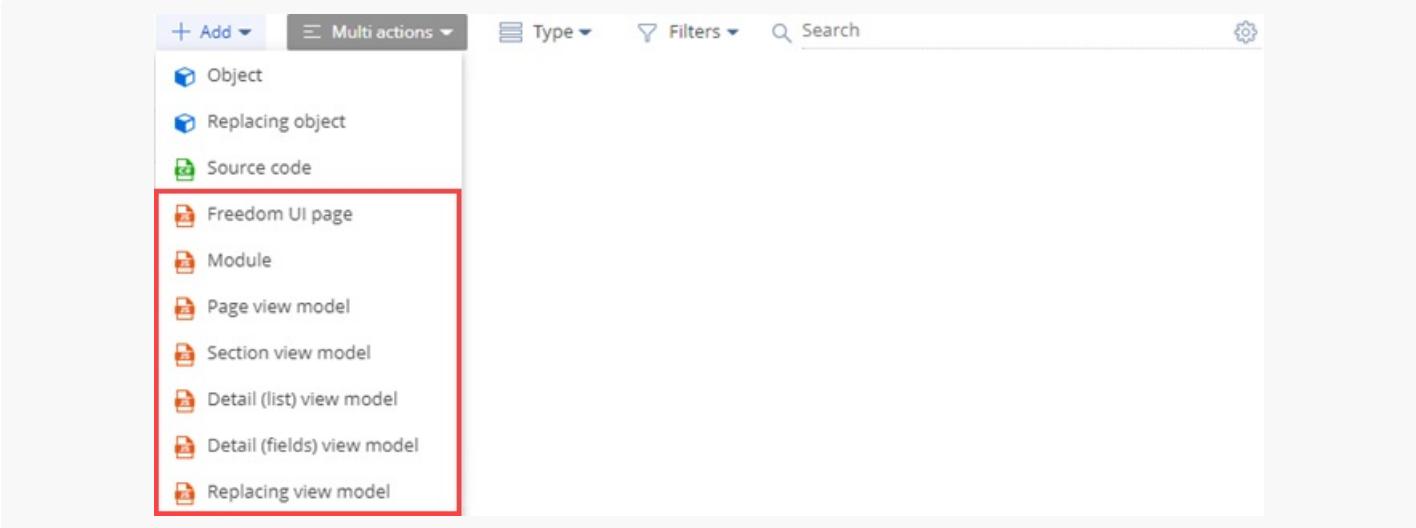
Client modules have the following **types**:

- non-visual module
- visual module
- replacing module

Learn more about client module types in a separate article: Module types and their specificities.

The items of the [*Add*] drop-down list in the toolbar of the [*Configuration*] section workspace represent the client module types you can add in Creatio IDE.

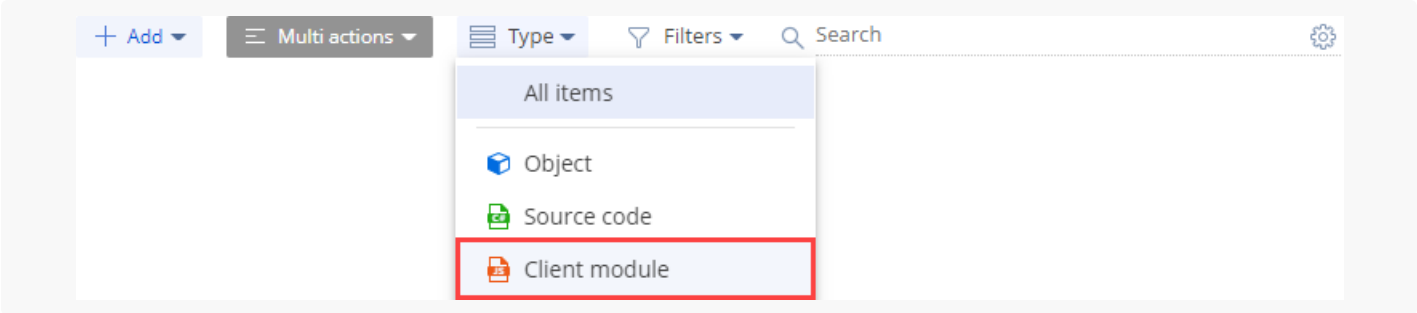
View the client module **types** in the figure below.



Learn more about configuration element types in a separate article: Operations in Creatio IDE.

The [*Client module*] type schema in the [*Type*] drop-down list in the toolbar of the [*Configuration*] section workspace represents the client module. A **schema** is the basis of Creatio configuration. As far as software implementation is concerned, a schema is a core class inherited from the base `Schema` class.

View the **type** of the client module schema in the figure below.



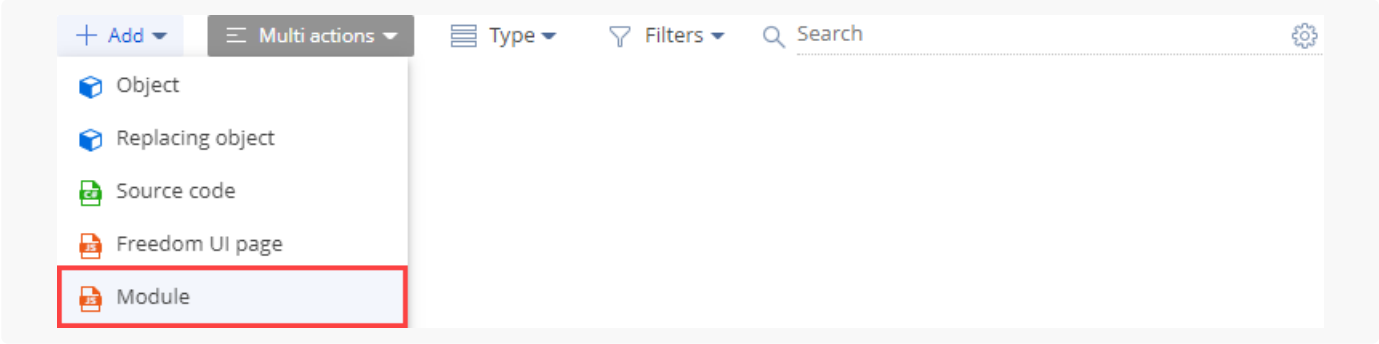
Learn more about configuration element types in a separate article: Operations in Creatio IDE.

Implement a non-visual module

The [*Module*] schema **type** represents a non-visual module.

To **implement a non-visual module**:

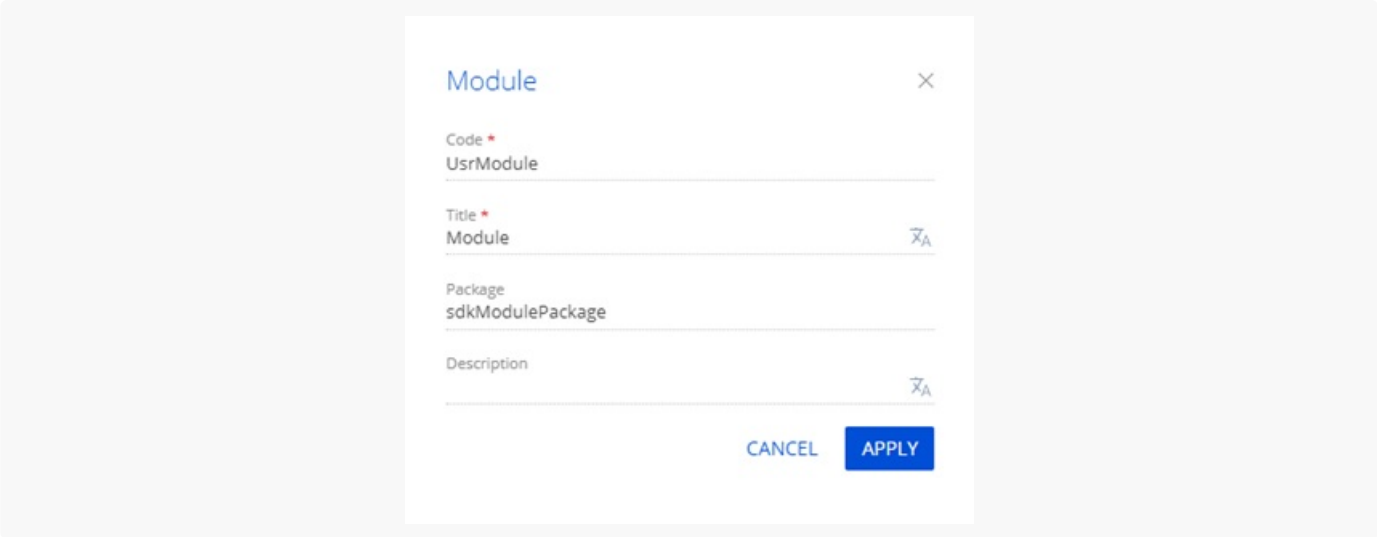
1. Go to the [*Configuration*] section and select a custom package to add the schema.
2. Click [*Add*] → [*Module*] on the section list toolbar.



3. Fill out the schema properties in the Module Designer.

   The **main schema properties** are as follows:

   - [*Code*] is the schema name. Required. Starts with the prefix specified in the [*Prefix for object name*] (`SchemaNamePrefix` code) system setting, `Usr` by default. Can contain Latin characters and digits. When a configuration element schema is created, the prefix specified in the [*Prefix for object name*] (`SchemaNamePrefix` code) system setting is added to the current field automatically. Creatio checks for the prefix and whether it matches the system setting value when saving the schema properties. If the prefix is missing or does not match, the user receives a corresponding notification.
   - [*Title*] is the localizable schema title. Required. The title of the configuration element schema is generated automatically and matches the value of the [*Code*] property without the prefix.
   - [*Package*] is the custom package where you create the schema. The property is populated automatically and non-editable.
   - [*Description*] is the localizable schema description.



Click [*Apply*] to apply the properties.

The **properties area** of the Module Designer lets you:

- edit the main schema properties (button)
- specify the additional schema properties (button)

The **additional schema properties** are as follows:

- [*Localizable strings*]
- [*Messages*]
- [*Images*]
- [*Parameters*]

4. Add the source code in the Module Designer. The module name in the `define()` function must match the schema name in the [*Code*] property.

   Creatio displays the type of the error or warning – if any – to the left of the row number. Hover over the error type to view a tooltip with the error description.
5. Click [*Save*] on the Module Designer's toolbar.

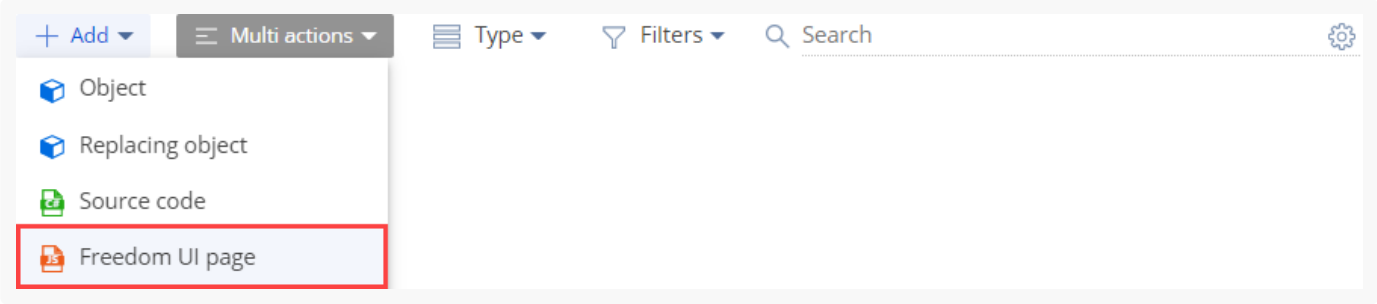
Implement a visual module

The visual module **types** are as follows:

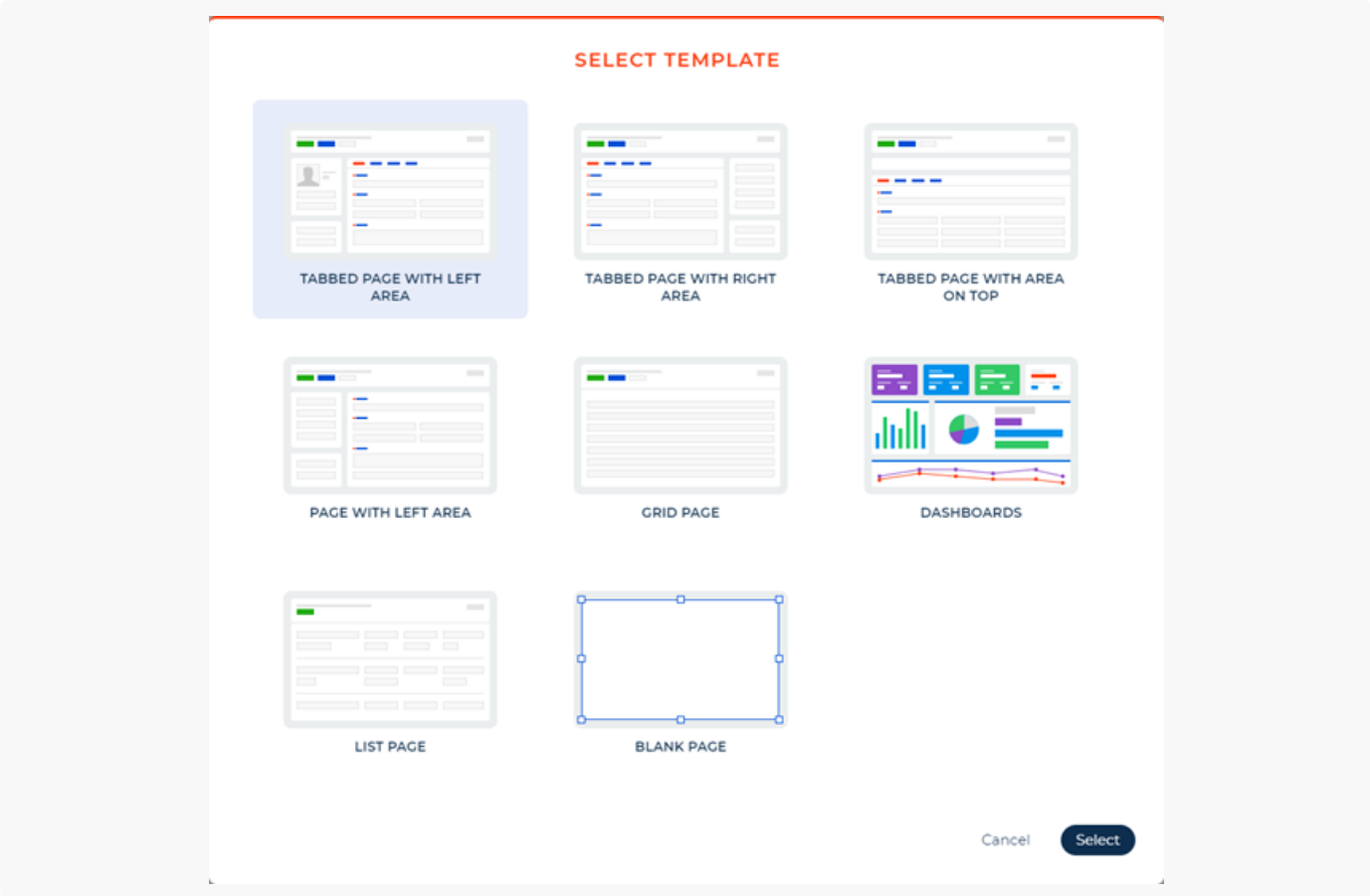
- [*Freedom UI page*], available for Creatio 8 Atlas and later
- [*Page view model*]
- [*Section view model*]
- [*Detail (list) view model*]
- [*Detail (fields) view model*]

Freedom UI page schema

1. Go to the [*Configuration*] section and select a custom package to add the schema.
2. Click [*Add*] → [*Freedom UI page*] on the section list toolbar.



3. Depending on your goals, select the corresponding template of the Freedom UI page to add and click [*Select*].



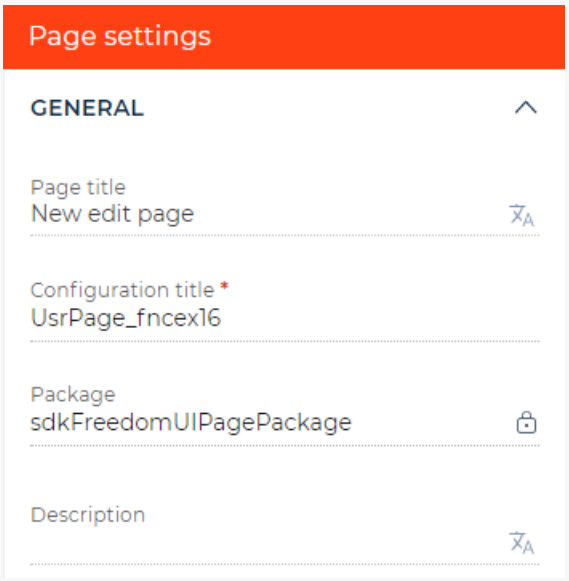
4. Click  in the action panel of the Freedom UI Designer and fill out the schema properties in the setup area.

   The schema has the following **properties**:

   - [*Page title*] is the localizable schema title.
   - [*Configuration title*] is the schema name. Required. Starts with the prefix specified in the [*Prefix for object name*] (`SchemaNamePrefix` code) system setting, `Usr` by default. Can contain Latin characters and digits. When a configuration element schema is created, the prefix specified in the [*Prefix for object name*] (

`SchemaNamePrefix` code) system setting is added to the current field automatically. Creatio checks for the prefix and whether it matches the system setting value when saving the schema properties. If the prefix is missing or does not match, the user receives a corresponding notification.

- [*Package*] is the custom package where you create the schema. This is a non-editable field.
- [*Description*] is the localizable schema description.



5. Click </> in the action panel of the Freedom UI Designer. The Module Designer opens after you save the page settings.

   The **properties area** of the Module Designer lets you:

   - edit the main schema properties (button)
   - specify the additional schema properties (button)

   The **main schema properties** are as follows:

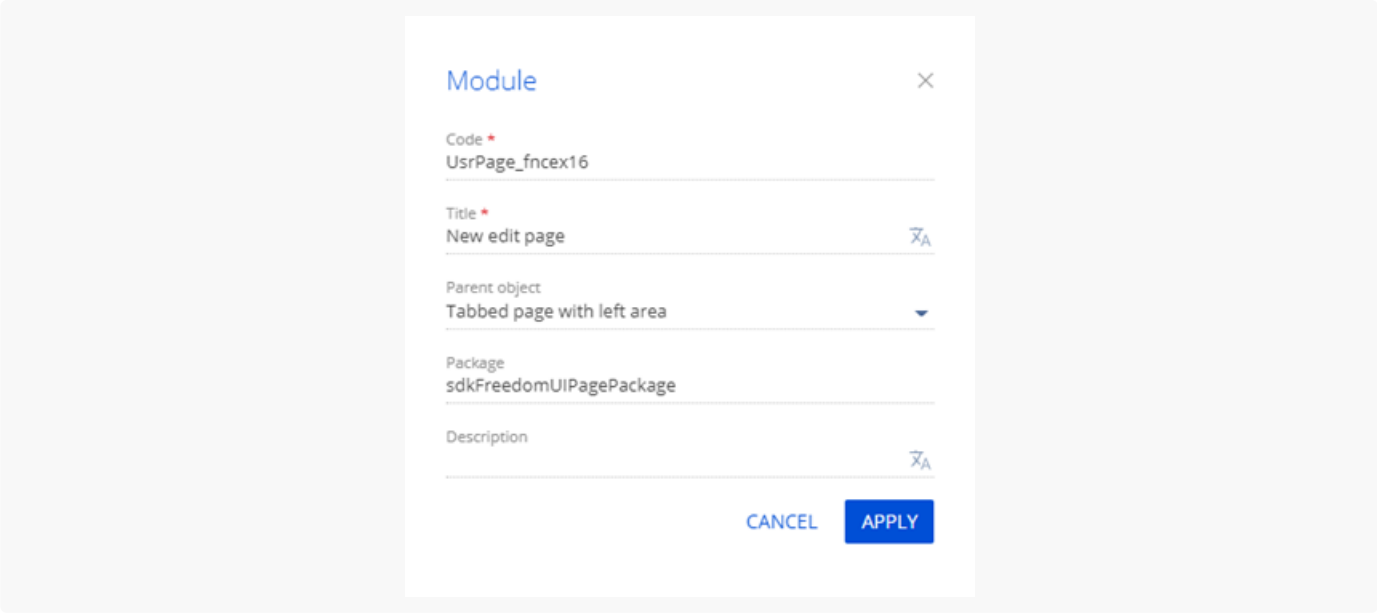
   - [*Code*] is the schema name. Required. Matches the [*Configuration title*] properties specified in the Freedom UI Designer.
   - [*Title*] is the localizable schema title. Required. Matches the [*Page title*] property specified in the Freedom UI Designer. When a configuration element schema is created, the prefix specified in the [*Prefix for object name*] (`SchemaNamePrefix` code) system setting is added to the current field automatically. Creatio checks for the prefix and whether it matches the system setting value when saving the schema properties. If the prefix is missing or does not match, the user receives a corresponding notification.
   - [*Parent object*] is the object whose properties the module inherits. Creatio populates the property automatically based on the template selected when adding the Freedom UI page in the [*Configuration*] section. This is an editable field.

     Attention. We do not recommend editing the [*Parent object*] property after you add elements to the schema. This can cause page malfunction.

   - [*Package*] is the custom package where you create the schema. Matches the [*Package*] property

specified in the Freedom UI Designer. The property is populated automatically and non-editable.

- [*Description*] is the localizable schema description. Matches the [*Description*] property specified in the Freedom UI Designer.



Click [*Apply*] to apply the properties.

The **additional schema properties** are as follows:

- [*Localizable strings*]
- [*Images*]
- [*Parameters*]

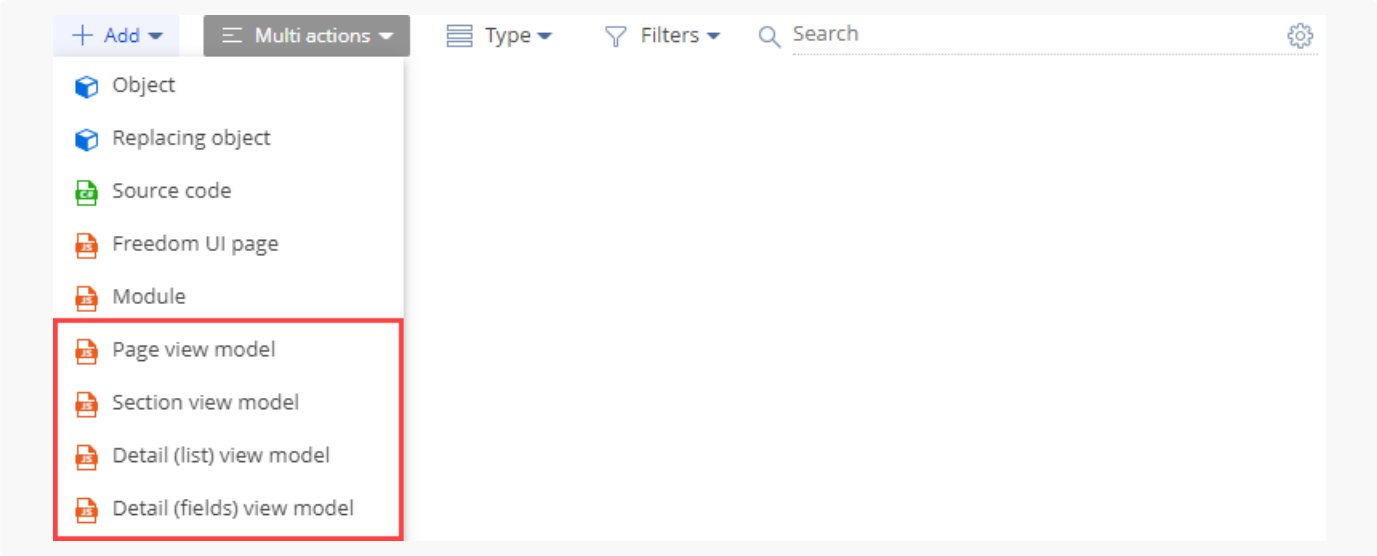
6. Add the source code in the Module Designer. The module name in the `define()` function must match the schema name in the [*Code*] property.

   Creatio displays the type of the error or warning – if any – to the left of the row number. Hover over the error type to view a tooltip with the error description.

7. Click [*Save*] on the Module Designer's toolbar.

View model schema

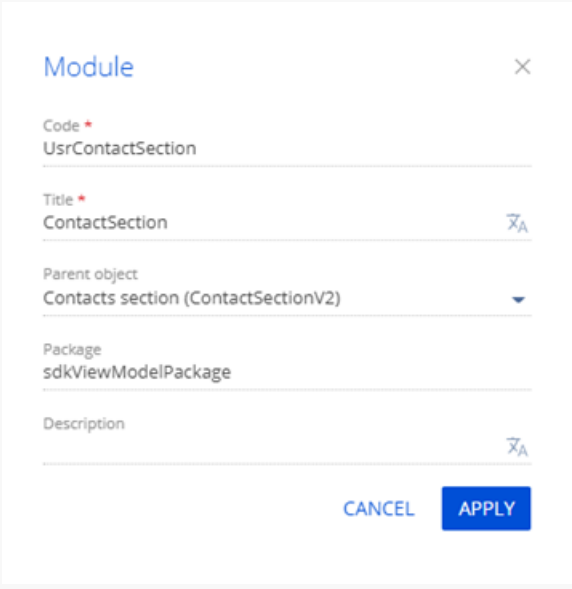
1. Go to the [*Configuration*] section and select a custom package to add the schema.
2. Click [*Add*] on the section list toolbar and select the type of the view model schema.



3. Fill out the schema properties in the Module Designer.

   The **main schema properties** are as follows:

   - [*Code*] is the schema name. Required. Starts with the prefix specified in the [*Prefix for object name*] (`SchemaNamePrefix` code) system setting, `Usr` by default. Can contain Latin characters and digits. When a configuration element schema is created, the prefix specified in the [*Prefix for object name*] (`SchemaNamePrefix` code) system setting is added to the current field automatically. Creatio checks for the prefix and whether it matches the system setting value when saving the schema properties. If the prefix is missing or does not match, the user receives a corresponding notification.
   - [*Title*] is the localizable schema title. Required. The title of the configuration element schema is generated automatically and matches the value of the [*Code*] property without the prefix.
   - [*Package*] is the custom package where you create the schema. This is a non-editable field.
   - [*Parent object*] is the object whose properties the module inherits. Select the parent object whose properties to inherit in the drop-down list.
   - [*Description*] is the localizable schema description.



Click [*Apply*] to apply the properties.

The **properties area** of the Module Designer lets you:

- edit the main schema properties (button)
- specify the additional schema properties (button)

The **additional schema properties** are as follows:

- [*Localizable strings*]
- [*Images*]
- [*Parameters*]

4. Add the source code in the Module Designer. The module name in the `define()` function must match the schema name in the [*Code*] property. The view model schema inherits from the `BaseModulePageV2` base schema.

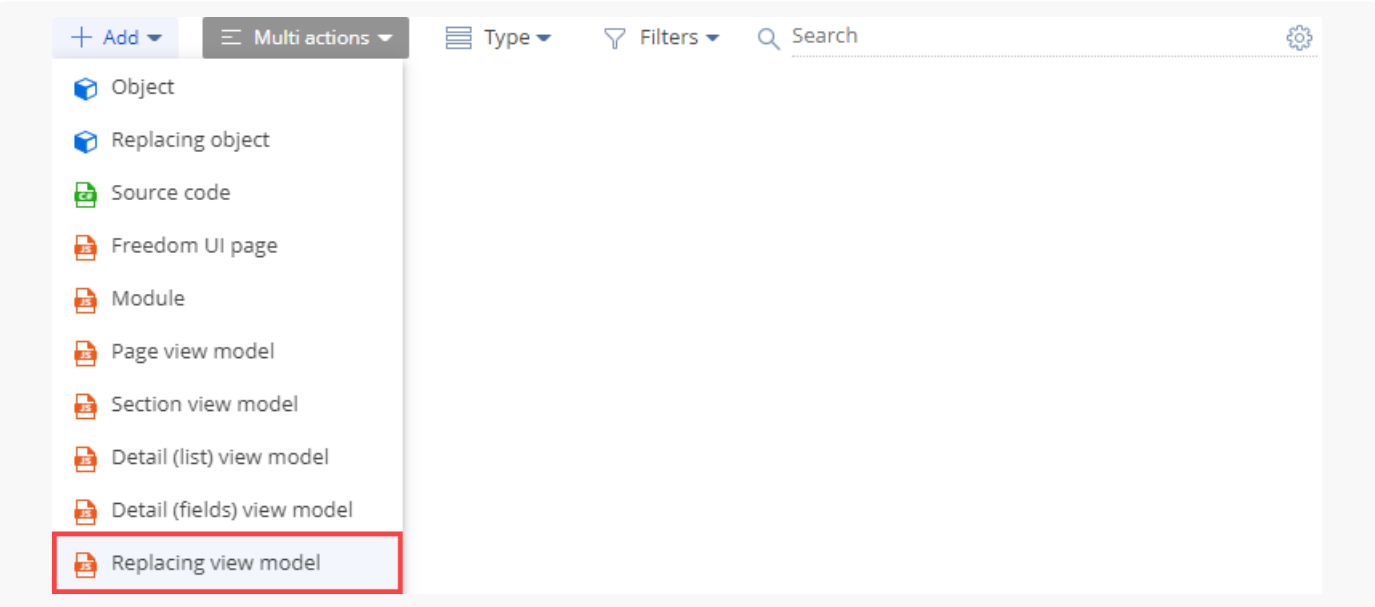
   Creatio displays the type of the error or warning – if any – to the left of the row number. Hover over the error type to view a tooltip with the error description.
5. Click [*Save*] on the Module Designer's toolbar.

Implement a replacing module

The [*Replacing view model*] schema **type** represents the replacing module.

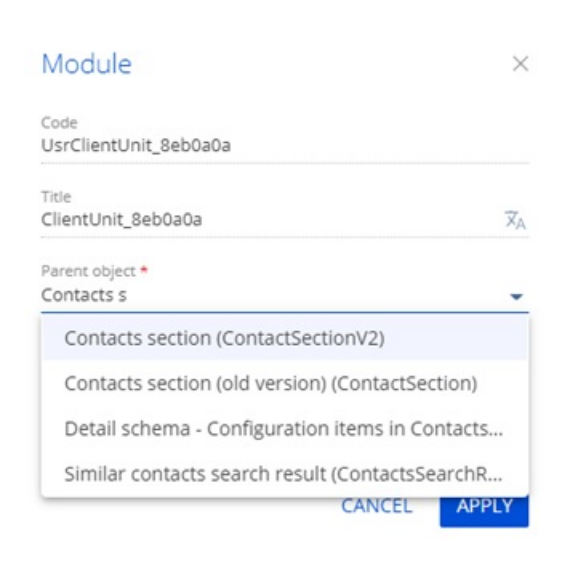
To **implement a replacing module**:

1. Go to the [*Configuration*] section and select a custom package to add the schema.
2. Set up the package dependencies. You must add the package that contains the replaced client module to the dependency list.
3. Click [*Add*] → [*Replacing view model*] on the section list toolbar.

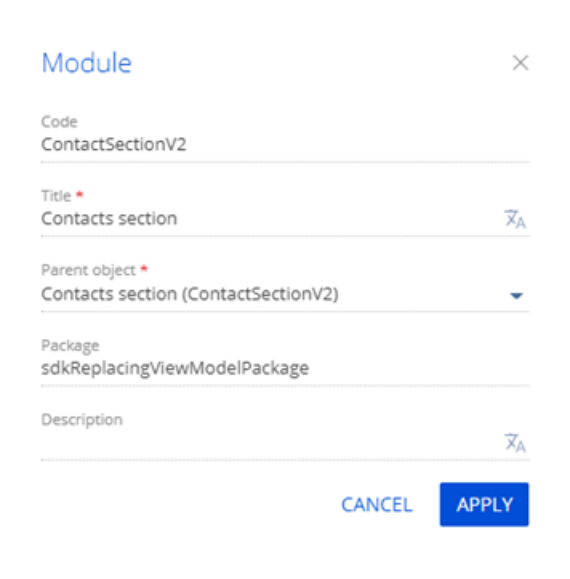


4. Select the parent object in the Module Designer.

To replace a section or page with the module, specify the view model schema to replace in the drop-down list of the [*Parent object*] required property. For example, to create a replacing schema for the [*Contacts*] section, specify the `ContactSectionV2` schema as the parent object.



After you select the parent object, Creatio populates other module properties automatically.



Click [*Apply*] to apply the properties.

The **properties area** of the Module Designer lets you:

- edit the main schema properties (button)
- specify the additional schema properties (button)

The **additional schema properties** are as follows:

- [*Localizable strings*]
- [*Images*]
- [*Parameters*]

5. Add the source code in the Module Designer. The source code must implement the functionality that distinguishes the replacing client module from the replaced module. The module name in the `define()` function must match the schema name in the [*Code*] property.

   Creatio displays the type of the error or warning – if any – to the left of the row number. Hover over the error type to view a tooltip with the error description.

6. Click [*Save*] on the Module Designer's toolbar.

Learn more about replacing configuration elements in a separate article: Replace configuration elements.