

EXT: Justimmo REST API

Extension Key: justimmo

Language: en

Version: 1.0.0

Keywords: forEditors, forAdmins, forIntermediates, forAdvanced

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The content of this document is related to TYPO3

- a GNU/GPL CMS/Framework available from www.typo3.org

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Introduction

What does it do?

This plugin provides an interface to the justimmo.at REST API for querying realty data. It ships with 3 plugins for different search requirements (realty number, quick & detail search) and a list & detail view for the search results. You need to acquire an API authentication in order to use this extension.

Screenshots

Objektnummer

Schnellsuche
☐ Miete ☐ Kauf
☐ Büro/Praxis ☐ Haus ☐ Wohnung
Preis bis €
Zimmer bis
Wohnfläche bis m²
PLZ bis
Ort
[Suchfilter löschen](#)

Fig. 1: realty number & quick search

Detailsuche

1. Objektart
☐ Büro/Praxis
☐ Haus
☐ Wohnung

2. Eigenschaften
☐ Kauf ☐ Miete
Preis bis €
Zimmer bis
Wohnfläche bis m²
Nutzfläche bis m²
Grundfläche bis m²

3. Lage
Land
Bundesland
Region ☐ 1., Innere Stadt
☐ 2., Leopoldstadt
☐ 3., Landstraße
☐ 12., Meidling
☐ 17., Hernals
☐ 18., Währing
☐ 19., Döbling
☐ Korneuburg
☐ Wien Umgebung
PLZ bis
Ort
[Suchfilter löschen](#)

Fig. 2: detail search

Suchergebnis
5 Objekte
Sortieren nach: [Ort](#) | [Kaufpreis](#) | [Miete](#) | [Fläche](#) | [Zimmer](#) | [PLZ](#)

**[Bastlerhit in Waldnähe](#)**
1030 Wien
Objektnr.: 500 | Kaufpreis: 100.000,00 € | Gesamtmiete: 1.440,00 € | Wohnfläche: 120,00 m² | I



**[Spitzenbüro für Start-up, virtuelles Büro, oder kleines Budget](#)**
1010 Wien, Innere Stadt
Objektnr.: 58262 | Gesamtmiete: 430,00 € | Nutzfläche: 15,00 m²

**[Luxusvilla mit Schwimmbad in Naturlage](#)**

Fig. 3: search/filter results view

Detail
[zurück zur Übersicht](#) | [nächstes Objekt](#) | [EXPOSE](#)

Bastlerhit in Waldnähe
1030 Wien

Eckdaten Objektnummer 500
Objektart: Wohnung
Nutzungsart: Gewerbe
Preisinformation
Kaufpreis: 100.000,00 €
Nettomiete: 1.200,00 €
Gesamtmiete: (inkl. USt. & BK): 1.440,00 €
Provision: 2.00 BMM + 20% UST(Miete);
provisionsfrei(Kauf)
Details
Baujahr: 1923
Zimmer: 6
Wohnfläche: 120,00 m²
Nutzfläche: 110,00 m²
Bäder: 1
WC: 2
Keller: 20,00 m²
Ausstattung
Parkettboden, Einbauküche,
Personenaufzug, Garage
Ihr Ansprechpartner
Max Mustermann
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Fig. 4: realty detail view

Users manual

Download & install the extension with the extension manager. After installation you must integrate the shipped plugins into different parts of your website. You must not create any data records or anything, but ask your administrator to setup the extension properly by specifying the API authentication parameters username & password in the TypoScript setup in an extension TypoScript template.

At first you should sit down and think about what search plugins do you need & where to integrate them. For example the realty number & quick search plugins are designed to fit perfectly into a tight sidebar or a footer.

You must create the page structure for the search results plugin and the detail view plugin. After this, it's also possible to create dedicated pages for “direct link” searches. But therefore, you have to meet with your TYPO3 integrator and define which filter parameters have to be set for these pages. The configuration for the “direct link” search pages must happen in dedicated TypoScript extension templates which are bound to each of this pages. A search results view plugin must be inserted into this pages to show the resulting list of realty objects.

In the following screenshot you see an example page structure setup:

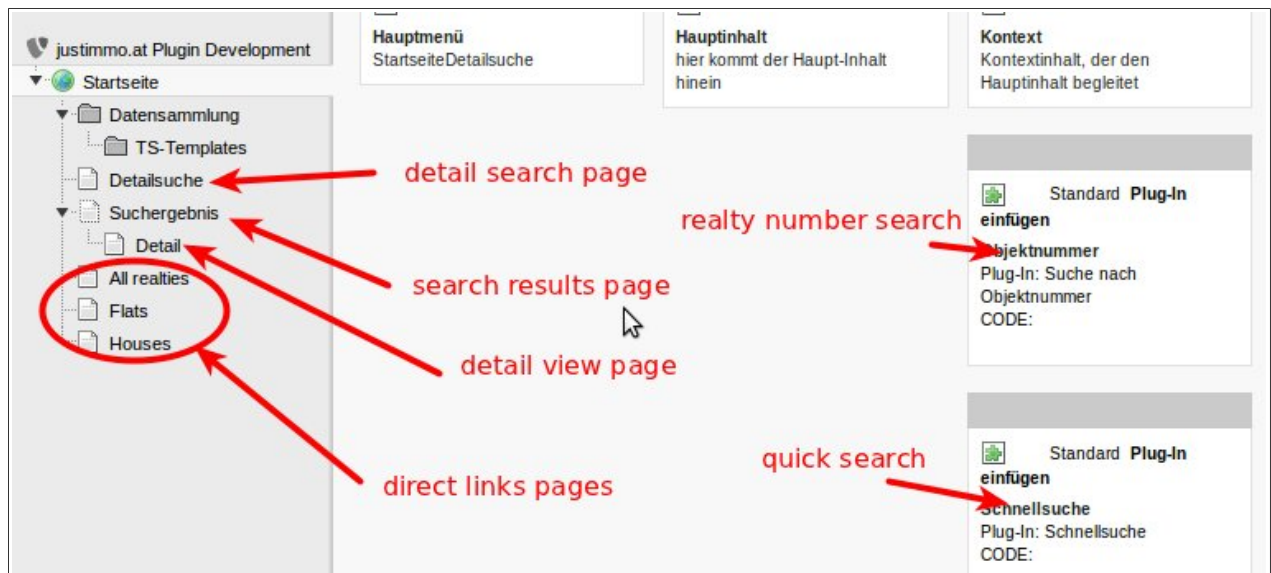


Fig. 5: example page structure setup

TypoScript setup

After the basic content element/plugin insertion setup the administrator/integrator of the TYPO3 website must create an extension TypoScript template and configure the justimmo extension.

It is important to define the following constants with the help of the constant editor:

```
plugin.tx_justimmo.settings.api.username = [API_USERNAME]
plugin.tx_justimmo.settings.api.password = [API_PASSWORD]
plugin.tx_justimmo.settings.searchResultsPid = 4
plugin.tx_justimmo.settings.realtyDetailPid = 6
```

As you see, you have to define the API username & password but also the page IDs of the search results (4, Fig. 5: “Suchergebnis”) and realty detail view (6, Fig. 5: “Detail”) pages.

After that, he has to create TypoScript templates for all of the direct links pages and define the filter defaults in the setup key

```
plugin.tx_justimmo.settings.realtyRepository.defaults.filter
```

FAQ

Q: Is it possible to define the kind of filters which are visible in the quick/detail search forms?

A: The configuration is done directly in the filter template. See the administration section for further information.

Q: Which kind of filters are available at all for the search forms?

A: Please see the justimmo.at API documentation.

Administration

First, you need to include the static extension template to your template root as usual for such kind of extensions. Furthermore you have to ensure, that a backend user is able to insert the different plugins of the justimmo extension. On the other side, you can keep the whole page/plugin structure hidden for the user but then you have to define where the plugins and which of them must be integrated into the website.

The other tasks you have to perform are

1. TypoScript setup/configuration of the extension
2. adjustments of the extension HTML/Fluid templates to match the filter ability requirements

The latter task requires some Fluid knowledge as all templates are built with this modern TYPO3 template technique. Furthermore, you need to adjust the TypoScript configuration a little further. Please see the Configuration chapter for more information.

Configuration

The basic setup can be performed with the constants editor. Open it now and switch to the category “PLUGIN.TX_JUSTIMMO” to see what options are available.

As you can see in the following screenshot, the most important settings are already set. Namely: “API username”, “API password”, “Realty detail PID” & “Search results PID”.

The setting “Path to template root (FE)” is interesting if you want to adjust the plugin templates according to your needs or the requirements of the project. Change the path value to the path your new template resides (e.g. fileadmin/templates/domain.tld/ext/justimmo/Private/Templates/). Ensure you copy all of the controller related subdirectories from the extension's template directory to this new directory.

Delete the cache and check if the extension still works. If everything is OK, start modifying the desired templates.

 **+ext: justimmo**

Kategorie: PLUGIN.TX_JUSTIMMO (11)

Files

Path to template layouts (FE) [plugin.tx_justimmo.view.layoutRootPath]
 EXT:justimmo/Resources/Private/Layouts/


Path to template partials (FE) [plugin.tx_justimmo.view.partialRootPath]
 EXT:justimmo/Resources/Private/Partials/

Path to template root (FE) [plugin.tx_justimmo.view.templateRootPath]
 EXT:justimmo/Resources/Private/Templates/

Others

API username [plugin.tx_justimmo.settings.api.username]


API base URL [plugin.tx_justimmo.settings.api.baseUrl]
 [Empty]

API password [plugin.tx_justimmo.settings.api.password]


Geo API Regions [plugin.tx_justimmo.settings.api.geo.regions.defaultCountryIdent]
default country identification
 AT

Default storage PID [plugin.tx_justimmo.persistence.storagePid]
 [Empty]

Realty detail PID [plugin.tx_justimmo.settings.realtyDetailPid]
 Range: 0 -

Search results PID [plugin.tx_justimmo.settings.searchResultsPid]
 Range: 0 -

Maxium realty items per page [plugin.tx_justimmo.settings.realtyRepository.defaults.max_per_page]
 5

Fig. 6: constant editor settings

Configuration

The whole configuration is done in TypoScript templates. No Page/User-TSConfig nor extension configuration.

Reference

Constants: template settings

Please ensure, that you copy the whole subdirectories and all of the files of the adjusted view property path to the new directory!

Property:	Data type:	Description:	Default:
layoutRootPath	string	layoutRootPath of the Fluid templates	EXT:justimmo/Resources/Private/Layouts/
partialRootPath	string	partialRootPath of the Fluid templates	EXT:justimmo/Resources/Private/Partials/
templateRootPath	string	templateRootPath of the Fluid templates	EXT:justimmo/Resources/Private/Templates/

[tsref:plugin.tx_justimmo.view]

Constants: common settings

Property:	Data type:	Description:	Default:
realtyDetailPid	int+	page ID where the realty detail view plugin is integrated This is a required setting!	
searchResultsPid	int+	page ID where the realty detail view plugin is integrated This is a required setting!	

[tsref:plugin.tx_justimmo.settings]

Constants: API settings

Property:	Data type:	Description:	Default:
username	string	API authentication username This is a required setting!	
password	string	API authentication password This is a required setting!	
geo.regions.defaultCountryIdent	string/int+	the default country identification ISO2 or ID for the initial region list in the search views.	AT

[tsref:plugin.tx_justimmo.settings.api]

Constants: realty filter defaults

Property:	Data type:	Description:	Default:
max_per_page	int+	defines the maximum realty objects per page in search results	5

[tsref:plugin.tx_justimmo.settings.realtyRepository.defaults]

TypoScript: realty filter defaults

These settings are needed if you plan to create direct link search pages. Integrate the justimmo search results list view plugin on that page and set up your default filters in a TypoScript template on that page.

Property:	Data type:	Description:	Default:
[valid filter criteria]	scalar, mixed	Please read the justimmo.at API reference for the available filter criteria. Bear in mind, that TypoScript is a configuration <i>array</i> , so you're able to setup an array filter criteria by simply opening a new configuration level.	

[tsref:plugin.tx_justimmo.settings.realtyRepository.defaults.filter]

Example

```

plugin.tx_justimmo.settings.realtyRepository.defaults.filter {
    // rentable objects
    miete = 1
    // objektart_id is an array criteria, new configuration level needed;
    // key is simply the array index, should start at 1 or in increments of 10
    objektart_id {
        // flats/appartements
        1 = 2
        // houses
        2 = 3
    }
}

```

TypoScript: style defaults

The extension comes with some default styles for the different plugins. Here's a list of keys which are defined by default. Feel free to override or delete them if necessary.

Property:	Data type:	Description:	Default:
tx_justimmo_bootstrap	fileResource	basic styles of Twitter's bootstrap for grid elements.	EXT:justimmo/Resources/Public/Css/bootstrap.min.css
tx_justimmo_default	fileResource	default styles for all plugins	EXT:justimmo/Resources/Public/Css/default.css
tx_justimmo_list	fileResource	default styles for search results list view plugin	EXT:justimmo/Resources/Public/Css/list.css
tx_justimmo_detail	fileResource	default styles for detail view plugin	EXT:justimmo/Resources/Public/Css/detail.css
tx_justimmo_search_quick	fileResource	default styles for quick search plugin	EXT:justimmo/Resources/Public/Css/search_quick.css
tx_justimmo_search_detail	fileResource	default styles for detail search plugin	EXT:justimmo/Resources/Public/Css/search_detail.css

[tsref:page.includeCSS]

HTML/Fluid templating: define filter criteria

To stick with the [KISS principle](#) I've decided to keep the filter criteria configuration in the template, where the fields must be defined anyway.

Scenario 1

Let's say you want to extend the realty object type ("*objektart_id*") filter criteria which is probably one of the most changed filter criteria for querying the justimmo API. Open your favourite IDE or editor and open the file EXT:justimmo/Resources/Private/Templates/Search/Detail.html.

Search for *objektartId* and you will find some predefined filter criteria for this property. Now, let's say

there is an object type with the ID 1. So the simple approach is to insert a new Fluid view helper to generate the checkbox:

```
<f:form.checkbox property="objektartId" value="1" id="detail_objektart_id_1" />
```

You see: it's that simple to add a new object type filter criteria to the template! There are a two basic rules, which will be explained here:

1. Every property must be converted from *underscored_lower_case* to *lowerCamelCase*
2. Write the property value into the *value* attribute of the view helper.

Scenario 2

Now, some time has passed and the justimmo API gets a new filter criteria. In this case, the extension of the template is not that easy. Because we're in an extbase context with the whole extension, the steps are a bit more complex:

1. Update the domain model object *Filter*: add the property, setter & getter methods
2. Update the domain model object validator *FilterValidator*: read the isValid() method and add the filter property validation accordingly.
3. After these steps, you should clear the cache to update the reflection cache of extbase
4. Add the new filter criteria to one of the forms as described in scenario 1

Tutorial

[to do]

Known problems

Extension of filter criteria

Filter extension is a bit more complicated as this requires the involvement of an software developer who has to extend the corresponding domain model objects and validators. It would be great to improve that in the future, but this is a thing for the todo list.

Speed/performance

As commonly known, the extbase framework is not one of the best performing ones. Please consider to enable some kind of caching/compiling software like APC, PHP accelerator or eAccelerator – to name a few. [See this list for other PHP accelerators.](#)

To-Do list

- improve extension of filter properties
- improve persistence layer/SimpleXMLElement mapping
- flexform configuration for plugins
- improve translation
- improve justimmo geo viewhelpers
- unit testing

ChangeLog

Version:	Changes:
1.0.0	first release of