

EXT: Book Database

Extension Key: **bookdb**

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Introduction

What does it do?

Book database is a plugin for managing books and magazines in a company or at home. It offers the possibilities of search, input and changing of books and associated data.

Screenshots

Search Mask

Display All

Place

Category

Publishing Company

Type

Language

Title

Author

Key Words

Content Description

Search Word

Search

Input

ID ISBN

Title *

Author

Publishing Date Edition

Publishing Company

Place *

Category

Type

Language

Key Words

Content Description

Save

Reset Input

To Change Mask

Other Tables

Change

ID ISBN

Title *

Author

Publishing Date Edition

Publishing Company

Place *

Category

Type

Language

Key Words

Content Description

Choose Table

Publishing Company Category Place Type Language

Create new Item in selected Table

1 - 2

ID	Publishing Company	
8	Web Company	<input type="button" value="Change"/> <input type="button" value="Delete"/>
9	Database Company	<input type="button" value="Change"/> <input type="button" value="Delete"/>

Change Item

ID Category

2 Databases - SQL

Users manual

Search for books in the database

The Book Database plugin starts with a search mask. Here you can do a search in the database. Which search mask is used depends on configuration of the value **SearchFormStyle** in the plugin configuration options. The following "Search Mask" is provided through the configuration of **SearchFormStyle=new**. This is also the default configuration.

Search Mask

Place

Category

Publishing Company

Type

Language

Title

Author

Key Words

Content Description

The old Search Mask is still available, if the value for **SearchFormStyle** is empty.

Search Mask

Display All

Place

Category

Publishing Company

Type

Language

Title

Author

Key Words

Content Description

At first you can choose the radio button "Display All", which simply displays all items in the database.

Display Search Results

1 - 4

<input type="button" value="Title"/>	<input type="button" value="Author"/>	<input type="button" value="Place"/>	<input type="button" value="Language"/>	
Web Programming with PHP	Author 2	Place 2		<input type="button" value="Details"/>
Basic Web Programming	Author 1	Place 1		<input type="button" value="Details"/>
Basic Web Design	Author 3	Place 2		<input type="button" value="Details"/>
Database Basics	Author 4	Place 3		<input type="button" value="Details"/>

In this case the results are ordered by an internal ID. If you hit the button "Title" the search results are ordered by title.

Display Search Results

1 - 4

Title	Author	Place	Language	
Basic Web Design	Author 3	Place 2		<input type="button" value="Details"/>
Basic Web Programming	Author 1	Place 1		<input type="button" value="Details"/>
Database Basics	Author 4	Place 3		<input type="button" value="Details"/>
Web Programming with PHP	Author 2	Place 2		<input type="button" value="Details"/>

If you hit the button "Author" the search results are ordered by author.

Display Search Results

1 - 4

Title	Author	Place	Language	
Basic Web Programming	Author 1	Place 1		<input type="button" value="Details"/>
Web Programming with PHP	Author 2	Place 2		<input type="button" value="Details"/>
Basic Web Design	Author 3	Place 2		<input type="button" value="Details"/>
Database Basics	Author 4	Place 3		<input type="button" value="Details"/>

The following radio buttons: Place, Category, Publishing Company, Type and Language do an exact search for the selected value from the associated option field.

Search Mask

Display All

Place

Category

Publishing Company

Type

Language

The above search would display all books which are at the place "Place 2".

Display Search Results

1 - 2

Title	Publishing Company	Place	Category	
Basic Web Design	Web Company	Place 2	Web Design	<input type="button" value="Details"/>
Web Programming with PHP	Web Company	Place 2	Web-Programming	<input type="button" value="Details"/>

For the other items: Title, Author, Key Words and Content description you can provide a search expression. The values have to be separated by spaces. If you use a plus before a value, this value is required in search results. The search is case insensitive.

Title

Author

Key Words

Content Description

Search Word

The above search would find all books containing the substrings *web* and *programming* in their title.

Display Search Results

1 - 2

Title	Publishing Company	Place	Category	
Basic Web Programming	Web Company	Place 1	Web-Programming	<input type="button" value="Details"/>
Web Programming with PHP	Web Company	Place 2	Web-Programming	<input type="button" value="Details"/>

If the value begins with a minus sign, this value may not be contained in the search results

Title

Author

Key Words

Content Description

Search Word

The above search would find all books containing *web*, but not containing *php* in their title.

Display Search Results

1 - 2

Title	Publishing Company	Place	Category	
Basic Web Design	Web Company	Place 2	Web Design	Details
Basic Web Programming	Web Company	Place 1	Web-Programming	Details

If a value starts with no sign and there is more than one value. The search expression is handled with an or linkage, this means not all values must be contained in the search results.

- Title
- Author
- Key Words
- Content Description

Search Word
web database

The above search would find all books containing web and all books containing database in their title.

Display Search Results

1 - 4

Title	Publishing Company	Place	Category	
Database Basics	Database Company	Place 3	Databases	Details
Basic Web Design	Web Company	Place 2	Web Design	Details
Basic Web Programming	Web Company	Place 1	Web-Programming	Details
Web Programming with PHP	Web Company	Place 2	Web-Programming	Details

Another feature for search is the ability to search for whole phrases. If you want to do this, just put the phrase between quotation marks "phrase" or single quotation marks 'phrase'.

- Title
- Author
- Key Words
- Content Description

Search Word
"Basic Web"

The above example shows how to search for the phrase "Basic Web" and produces the following result.

Display Search Results

1 - 2

Title	Publishing Company	Place	Category	
Basic Web Design	Web Company	Place 2	Web Design	Details
Basic Web Programming	Web Company	Place 1	Web-Programming	Details

If your search produces no results and the search form is displayed again, the following Message appears.

There were no results matching your query.

Search Mask

- Display All

- Place
- Category
- Publishing Company
- Type
- Language

- Title
- Author
- Key Words
- Content Description

Search Word

Input a book

To Input a new book you must fill in the required fields, otherwise an error message appears.

Error You haven't filled in the following required fields:
Place

Input

ID ISBN WWW

Title * A new book

Author An Author

Publishing Date Edition

Publishing Company New Company

Place *

Category New Category

Type New Type

Language

Key Words

Content Description

Save Reset Input To Change Mask Other Tables

The data you already had input isn't lost. It is displayed again. The only thing you have to do is to enter a new place for the book in the input field or choose an existing from the select-box and press save again. If anything is right a new empty input mask appears. If you enter an ISBN for a book, that already exists in the database, the input is rejected with an error message: "This book already exists in the database, but the book is displayed for changing the entry. The same happens if the title and the author are identical to an entry in the database. For the values: Publishing Company, Place, Category, Type and Language you have 2 choices for input: a selection field and a text input field. The value in the text input field is preferred from these two fields. Only if the text input field is empty, the value from the selection field is stored. If you know the ISBN for a book, you can fill in this in the field labeled ISBN and hit the WWW-Button. The script tries to fetch the information from amazon.de, and provides the values in the appropriate fields, if a book was found.

Change an entry for a book

To change a book you can input the ID or the ISBN if you know these, and the book is displayed for change, if it's existing in the database. You can also use the button browse, to browse the db and select an item for change. If you have a large database you can restrict the items to be displayed with input values in the following fields: Title, Author, Publishing Company, Place, Category, Type and Language. Choose the book for change with the button Change. If you made your changes, push the button "Submit Changes" and the changed entry for the book is saved. If you want to delete a book, push the button Delete and the book is deleted from the database. Assuming that you know what you are doing, there is no additional question if you want to delete this book.

Change

ID 10 ISBN

Title * Basic Web Programming

Author Author 1

Publishing Date Edition

Publishing Company Web Company

Place * Place 1

Category Web-Programming

Type Book

Language

Key Words

Content Description

Browse Submit Changes Delete Reset To Input Mask

The "Other Tables"

The so called other tables are all tables except the main table. They are used to store: Publishing Company, Place, Category, Type and Language. You can edit the entries in these tables after pushing the button "Other Tables" in the Input Mask.

Choose Table

Publishing Company Category Place Type Language

Choose Table

Create new Item in selected Table

Add

1 - 2 Display

ID	Publishing Company	Change	Delete
8	Web Company	Change	Delete
9	Database Company	Change	Delete

To Input Mask To Change Mask

In the upper part you can choose one of the other tables, where you want to add, change or delete an item. Below you can add a new item to the selected table. In the lower part the items of the selected table are displayed, so you can choose an item to change or delete. You can't delete an item, which ID is still used as an entry in the main table.

Error: This entry cannot be deleted, because he is referenced in linked tables!

Choose Table

Publishing Company Category Place Type Language

Create new Item in selected Table

1 - 2

ID Publishing Company

8	Web Company	<input type="button" value="Change"/>	<input type="button" value="Delete"/>
9	Database Company	<input type="button" value="Change"/>	<input type="button" value="Delete"/>

Configuration

Install the plugin with the extension manager. The following tables are created during installation process:

Table	Meaning
tx_bookdb_book	the main table used for storing book data: isbn, title, author, publishing date, edition, key words and a content description
tx_bookdb_booklanguage	the table used to store the different languages
tx_bookdb_booktype	the table used to store the booktype
tx_bookdb_category	the table used to store the category
tx_bookdb_place	the table used to store the place where the book is
tx_bookdb_publ_comp	the table used to store the publishing company

If the webserver containing the Typo3 installation lies behind a proxy, the plugin uses cURL to fetch data from the web. This requires that the cURL library must be installed. You must set the constant useProxy to 1 and fill in the correct values in the constant Proxy as shown below.

Enable features

useProxy [plugin.tx_bookdb_pi1.useProxy]
set this to 1 if your webserver lies behind a proxy
 1 Range: 0 - 1
Default: 0

Proxy [plugin.tx_bookdb_pi1.Proxy]
IP-Address:Port
 192.168.100.1:8080
Default:

There are two different page types represented by two Plugin Options. The Code field is no longer used to configure the plugin.

Search - the page for searching the db and displaying the results

Input - the page for insert new books and change of existing books

Pagecontent [67] -

Type: Insert plugin

Header:

Plugin: Book Database

Plugin Options: Choose the pagetype Search

Startingpoint:

Page

General options:

Hide: Start: Stop: Access:

Show secondary options (palettes)
 Show field descriptions

With the constant **ItemDisplayCount** you can limit the number of items displayed for search results, browse the database and editing of the other tables. The default value is 10.

Dimensions, widths, heights, pixels

ItemDisplayCount [plugin.tx_bookdb_pi1.ItemDisplayCount]
 Number of Rows to Display for search results, browse mode and other tables
 5 Range: 1 - 100
 Default: 10

You can choose which fields in the input form are required to fill in with the **RequiredInputFields** constant. The required fields are marked with an asterisk.

Input

ID ISBN -->

Title *

Author

Publishing Date Edition

Publishing Company

Place *

Category

Type

Language

Key Words

Content Description

In the screenshot the fields title and place are marked as required for filling in.

RequiredInputFields [plugin.tx_bookdb_pi1.RequiredInputFields]
 the required fields for input and change
 title,place
 Default:
 title,author,publ_comp,edition,isbn,publ_date,place,category,booktype,booklanguage,key_words,content_desc

The default value is a string containing all fields, which make no sense for practice, but you can easily delete the not required fields. With the **RequiredFieldsStyle** you can adjust how the labels for the required fields should look if they aren't filled in.

Another constant provided is **ResultFields**, which is controlling the fields to be displayed for search results.

ResultFields [plugin.tx_bookdb_pi1.ResultFields]
 the fields to be displayed for search results
 title,author,publ_comp,place,category
 Default: title,author,publ_comp,edition,isbn,publ_date,place,category,booktype,booklanguage

Display Search Results

1 - 2

Title	Author	Publishing Company	Place	Category	
Basic Web Programming	Author 1	Web Company	Place 1	Web-Programming	Details
Web Programming with PHP	Author 2	Web Company	Place 2	Web-Programming	Details

With the constant **EmptyValue** you can set a value to be displayed instead of empty fields. If you change this value in the TypoScript Constant Editor, you must also change this value in the other tables: publ_comp, place, category, booktype, booklanguage, or the old entry for empty fields would be handled as a normal entry.

For the meaning of the other TypoScript constants according to style please look at the section Reference later in this document.

Reference

TypoScript constants explained

Property:	Data type:	Description:	Default:
templateFile	file	File used as HTML-Template	typo3conf/ext/bookdb/pi1/bookdb_template.tpl
Language	string	Language used for Field-Labels, Headers, Messages	
useProxy	int[0-1]	If you want to use a proxy, set this value to 1	0
Proxy	string	a string which consists of ip-address and port of the proxy, separated with a colon 127.0.0.1:8080	
ItemDisplayCount	int[1-100]	Number of rows to display the search results and the entries of the other tables	
HeaderStyle	string	contains the style for the headers	font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #23058C; font-size: 16px; font-weight: bold; text-align: center;
FieldLabelStyle	string	contains the style for field-labels and fields	font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #23058C; font-size: 12px; border-width: 2px;
InputStyle	string	contains the style for input fields	font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #23058C; font-size: 12px; border: 1px dotted #CCCCCC;
InputFieldSizes	string	adjust the width of the input fields: id,isbn,title,author,publ_date,edition,publ_comp,place,category,booktype,booklanguage,key_words,content_desc	80,80,400,400,130,130,190,190,190,190,190,400,400
ButtonStyle	string	contains the style for buttons	font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #23058C; font-size: 12px; border: 2px solid #23058C;
TableButtonStyle	string	contains the style for buttons within a table for sorting or displaying details	TableButtonStyle=font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #23058C; font-size: 12px; border: 2px solid #FFFFFF; background-color: #FFFFFF;
InputTableStyle	string	contains the "style" of the table used for input and change mask	'width="100%" cellspacing="3" cellpadding="3"

Property:	Data type:	Description:	Default:
OutputTableStyle	string	contains the "format" of the table sused for displaying search results and book details and the table used for browsing the db	border="1px" bordercolor="#23058C" frame="box" rules="all" cellpadding="5" width="100%" style="border-collapse: collapse; border-color: #23058C;"
ErrorMessageStyle	string	contains the style for error messages	font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #FF0000; font-size: 12px; font-weight: bold; text-align: center;
RequiredFieldsStyle	string	contains the style for required fields when they are not filled	font-family: Arial,Helvetica,Geneva,Swiss,SunSans-Regular; color: #FF0000; font-size: 12px; font-weight: bold; text-align: center;
RequiredInputFields	string with csv values	contains the required fields for input and change separated by commas	title,author,publ_comp,edition,isbn,publ_date,place,category,booktype,booklanguage,key_words,content_desc
ResultFields	string with csv values	the fields to be displayed for search results	title,author,publ_comp,edition,isbn,publ_date,place,category,booktype,booklanguage
EmptyValue	string	the value which is displayed for an empty field	---
SearchFormStyle	String	selects if the new search mask with checkboxes will be displayed or the old one with radiobuttons	new

fieldlabel	internal fieldname
ISBN	isbn
Title	title
Author	author
Publishing Date	publ_date
Edition	edition
Publishing Company	publ_comp
Place	place
Category	category
Type	booktype
Language	booklanguage
Key Words	key_words
Content Description	content_desc

Known problems

To-Do list

I'm planning to rewrite the extension using the PEAR classes and Smarty as template engine, to provide more flexibility for the design of the pages displayed in the frontend.

Changelog

- 0.0.1 first version
- 0.0.2 finnish translation added, thanks to translator
- 0.0.4 minor layout changes for search and input form removed checking if book exists, so it's possible to have several copies of the same book
- 0.0.5 italian translation added, thanks to translator
- 0.1.0 automatic language recognition added
a new Search Mask with 'AND' linked search fields is available with the constant SearchFormStyle=new thanks to Daniel Pöttinger
it is possible to configure one or more starting points (for the plugin) for a search page, so that only values from these pages will be found through search

- 0.1.2 changed pagetype configuration from code field to to configuration with flexforms