



Integrierte Literaturverwaltung in Moodle

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Gliederung



1. Motivation
2. Anforderungen
3. Elektronischer Bibliothekskatalog
4. Systemarchitektur
5. Diskussion & Ausblick

Motivation



 **Titel:** [PHP 5 CMS framework development : expert insight and practical guidance to create an efficient, flexible, and robust web-oriented framework / Martin Brampton](#)
Verfasser: [Brampton, Martin](#)
Ausgabe: 2. ed.
Erschienen: Birmingham [u.a.] : [Packt publ.](#), 2010
Umfang: 416 S.
Schriftenreihe: Community experience distilled
ISBN: 1-8495-1134-9, 978-1-8495-1134-0

Sachgebiete: [ST 250 PHP](#)

Standort: [Bereichsbibliothek Golm](#) --> [Wegweiser](#)
Signatur: **ST 250 PHP BRA**
Ausleihstatus: Ausleihbar
verfügbar ▶ [Bestellen](#)



Literatur

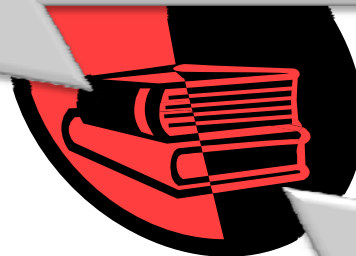
Empfohlene Literaturliste:

1. Brampton, Martin: PHP 5 CMS framework development. 2. ed., Birmingham, ST 250 PHP BRA, Golm

Anwendungsfälle



„Ein Lehrender möchte Literatur zur Vorlesung recherchieren und für den späteren Gebrauch der Student(inn)en in Moodle abspeichern. Neben der Suche von Literatur in verschiedenen Quellen soll dazu auch der direkte Import der Literatur möglich sein.“



„Ein Lehrender möchte Literatur in einem Moodle-Kurs veröffentlichen. Hierzu kann der Lehrende Literatur aus Moodle heraus suchen oder bereits abgespeicherte Literatur auswählen. Die zu veröffentlichenden Literaturdaten sollen ansprechend aufbereitet werden und über die notwendigen Kern-Informationen verfügen.“

Anforderungen



- Literatursuche in einer Bibliotheksdatenbank
- Konfiguration für die Verwendung verschiedener Bibliothekssysteme
- Anreicherung der Literaturdaten aus Zweitsystemen
- Veröffentlichen von Literaturdaten in Moodle-Kursen
- Verwalten von Literaturdaten in Listen
- Zugriff auf die Literaturlisten über eine Schnittstelle
- Import sowie Export der Literatur in einem standardisierten Format

Ähnliche Arbeiten



Katalog-Lösungen:

- Export-Schnittstellen für wenige Learning Management Systeme
- Bsp.: Beluga (Hamburg)

LMS-Lösungen:

Stud.IP + integriertes Z 39.50:

- keine Anbindung an weitere Such-Quellen
- keine Schnittstellen zum Export / Import über Web Services
- keine Anreicherung über andere Quellen möglich

Moodle:

- Literaturverwaltung Moodley (Verbindung von Mendeley und Moodle)

Elektronischer Bibliothekskatalog



Online Public Access Catalogue (OPAC)

- Organisation in Verbänden
- Zusammenfassung der einzelnen Daten in einen Katalog


Katalogisierungsformate:

- PICA+
- MARC21

Suchprotokolle:

- Z39.50
[Client-Server-Protokoll]
- Search/Retrieval via URL (SRU)
[Web Service]

■ Ihre Aktion suchen [und] ([ALL] Alle Wörter) php

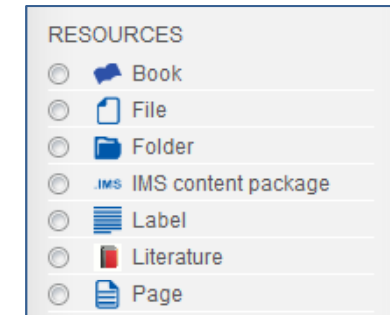
	001@	\$e1
	001A	\$00089:27-09-11
	001B	\$00547:31-07-13\$t15:45:41.000
	001D	\$03713:04-01-12
	001F	\$00
	001U	\$0utf8
	002@	\$0Aau
	003@	\$0668900288
	004A	\$A978-383-62177-7-4\$ghbk.
	006X	\$cSTBB\$0952554846
	006Y	\$0STBBT952554846
	007G	\$cGBV\$0668900288

Pluginarchitektur in Moodle



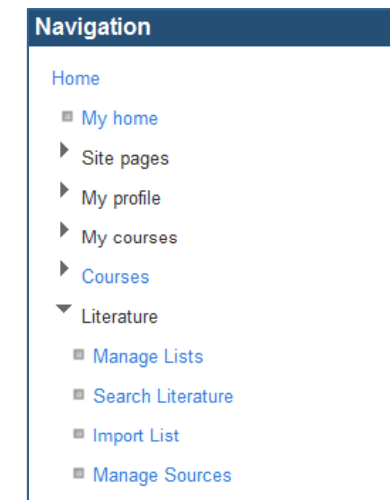
Typ „Activity module“:

- Implementierung als eigenständige Aktivität bzw. Ressource
- nutzen einer vorhandenen Typs
- ermöglicht Verwendung von Sub-Plugins
- Instanz existiert jedoch nur im Kurskontext!



Typ „local“:

- ermöglicht kursübergreifende Navigation und Literaturverwaltung



Suchquellen



Z39.50:

- standardisiertes Suchprotokoll
- Anbindung über Client mit php-yaz

SRU:

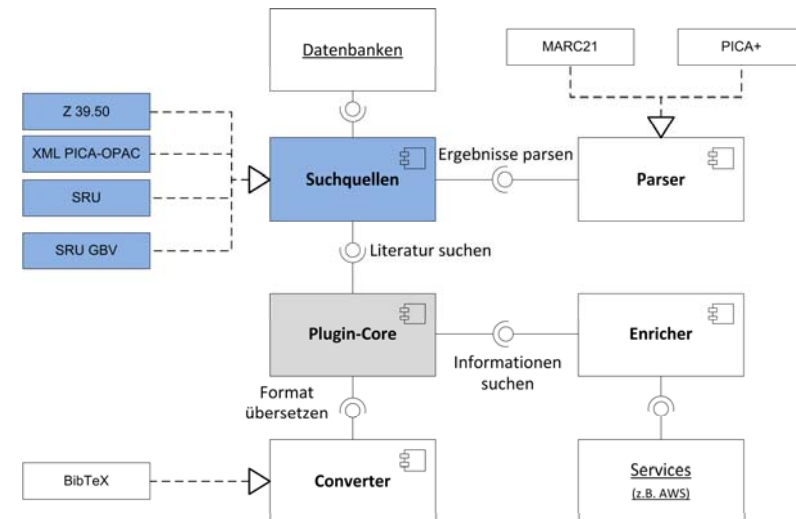
- Nachfolger von Z39.50 (standardisiert + verbreitet)
- kein Client wie bei Z39.50 notwendig

SRU GBV:

- spezielle Realisierung
- einfacher zu konfigurieren

XML PICA-OPAC:

- Anbindung an OPC4 von OCLC
- proprietäres XML-Format
- interessant falls kein SRU oder Z39.50 vorhanden



Suchquellen und Parser



Z39.50: (MARC21)

- standardisiertes Suchprotokoll
- Anbindung über Client mit php-yaz

SRU: (MARC21)

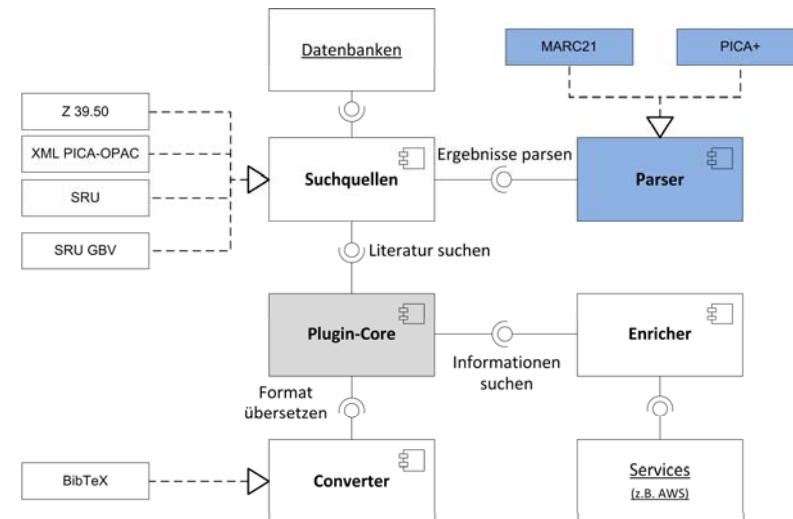
- Nachfolger von Z39.50 (standardisiert + verbreitet)
- kein Client wie bei Z39.50 notwendig

SRU GBV: (MARC21)

- spezielle Realisierung
- einfacher zu konfigurieren

XML PICA-OPAC: (PICA+)

- Anbindung an OPC4 von OCLC
- proprietäres XML-Format
- interessant falls kein SRU oder Z39.50 vorhanden



Anreicherung

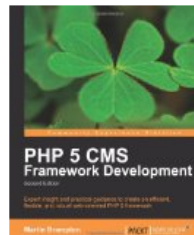


bisher nur Amazon Web Services (AWS)

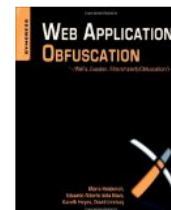
- Suchanfrage mit ISBN über SOAP Library
- Cover und leere Felder werden nachgeladen



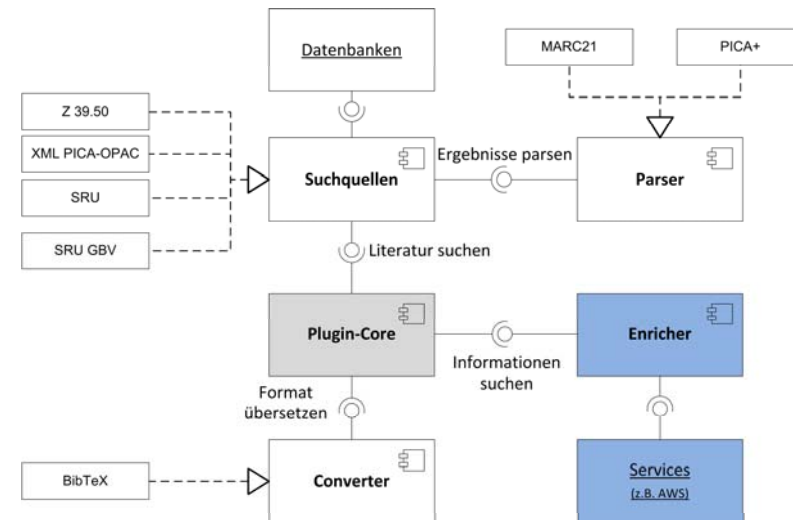
Title: Besser PHP programmieren - Handbuch professi
 jQuery, CouchDB, Zend Framework, Performance-Opti
Authors: Carsten Möhrke
Publisher: Galileo Press
Published: 2012
ISBN: 3836217414, 9783836217415
Format: 880 S.
Link: [Inhaltsverzeichnis](#)
Link: [Inhaltstext](#)



Title: PHP 5 CMS framework development
Authors: Martin Brampton
Publisher: Packt publ.
Published: 2010
ISBN: 1849511349, 9781849511346
Format: 416 S.



Title: Web Application Obfuscation - 'WAFs'.Evasion.Filters/alert
Authors: Heiderich, Mario
Publisher: Elsevier monographs
Published: 2010
ISBN: 1597496049
Format: Online Ressource (3673 KB, 296 S.)
Link: [Volltext](#)
Link: <http://site.ebrary.com/lib/alltitles/docDetail.action?docID=1044>
Link: <http://site.ebrary.com/lib/academiccompletetitles/home.action>
Link: [ScienceDirect](#)
Link: [Volltext](#)
Link: [C](#)
Description: Web applications are used every day by millions of us
 attack and create hundreds-if not millions-of variants that can evade



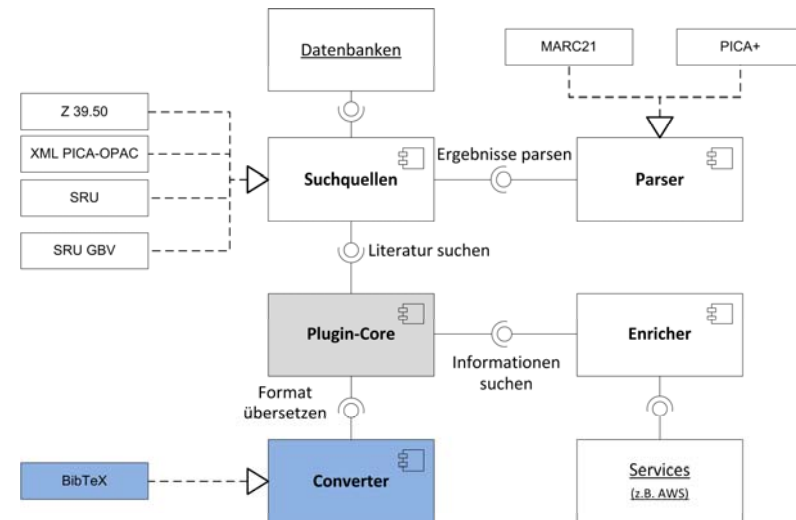
Importmöglichkeiten



- Anschluss über Konverter
- bisher nur BibTeX

Erweiterungen:

- Unterstützung weiterer Formate
- direkter Export in beliebige Zitatformate
- Teilen von Literaturlisten
- parallele Suche in mehreren Suchquellen
- Erweiterung der vorhandenen plugin-spezifischen Web Services



Screenshots



The screenshot shows a Moodle course page for 'E-Learning'. A dialog box titled 'Add an activity or resource' is open in the center. The dialog lists various activity types, with 'Literature' selected. The dialog also contains a description: 'The literature module allows to manage and publish literature data.' Below the list are 'Add' and 'Cancel' buttons.

The background course page includes a navigation menu on the right with the following items:

- Home
- My home
- Site pages
- My profile
- My courses
- Courses
 - Mathematisch-Naturwiss. Fakultät
 - BioChemieTest
 - Dietmar's Kurs
 - NSS
 - E-Learning-I
 - Participants
 - Reports
 - General
 - Topic 1
 - Topic 2
 - Topic 3
 - Grundlagen der Programmierung II
 - Netzbasierende
 - Speichersysteme
 - Didaktik-II
 - Miscellaneous
 - Juristische Fakultät
 - Bibliothek
 - Literature


At the bottom right, there is a 'Settings' panel with the following options:


- Course administration
 - Turn editing off
 - Activity chooser off
 - Edit settings

Screenshots




Search Literature

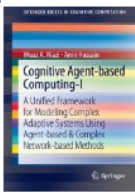
Source  UP GBV SRU ▾

Search 


[ALL] Alle Wörter ohne Volltext ▾ Framework and ▾
[TXT] Volltextsuche ▾ and ▾
[VLG] Verlag ▾ Springer and ▾
[PER] Person, Autor ▾

Search **Cancel**

Results 



Title: Cognitive Agent-based Computing-I - A Unified Framework for Modeling Complex Adaptive Systems using Agent-based & Complex Network-based Methods
Authors: by Muaz A Niazi, Amir Hussain
Publisher: Springer
Published: 2013
ISBN: 9789400738515
Format: Online-Ressource (XIV, 55 p. 9 illus., 7 illus. in color)
Link: <http://dx.doi.org/10.1007/978-94-007-3852-2>
Description:
Complex Systems are made up of numerous interacting sub-components. Non-linear interactions of these components or agents give rise to emergent behavior observable at the global scale. Agent-based modeling and simulation is a proven paradigm which has previously been used for effective computational modeling of complex systems in various domains. Because of its popular use across different scientific domains, research in agent-based modeling has primarily been vertical in nature.
The goal of this book is to provide a single hands-on guide to developing cognitive agent-based models for the exploration of emergence across various types of complex systems. We present practical ideas and examples for researchers and practitioners for the building of agent-based models using a horizontal approach - applications are demonstrated in a number of exciting domains as diverse as wireless sensors networks, peer-to-peer networks, complex social systems, research networks and epidemiological HIV.



Title: Agent-Based Simulation of Vulnerability Dynamics - A Case Study of the German North Sea Coast
Authors: by Cilli Sobiech
Publisher: Springer
Published: 2013
ISBN: 9783642323645

Screenshots



Universität Potsdam Moodle 2.UP You are logged in as [admin user \(Logout\)](#) English (en)


Home ► Courses ► Mathematisch-Naturwiss. Fakultät ► E-Learning-I

Turn editing on


E-Learning

News forum

Topic 1



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Title: Agent-Based Simulation of Vulnerability Dynamics - A Case Study of the German North Sea Coast
Authors: by Cilli Sobiech
Publisher: Springer
Published: 2013
ISBN: 9783642323645
Format: Online-Ressource (XIV, 224 p. 66 illus., 55 illus. in color)
Link: <http://dx.doi.org/10.1007/978-3-642-32365-2>
Description: The thesis constitutes an extraordinary innovative research approach in transferring the concepts and methods of complex systems to risk research. It ambitiously bridges the barriers between theoretical, empirical and methodical research work and integrates these fields into one comprehensive approach of dealing with uncertainty in socio-ecological systems. The developed agent-based simulation aims at the dynamics of social vulnerability in the considered system of the German North Sea Coast. Thus, the social simulation provides an analytical method to explore the individual, relational, and spatial aspects leading to dynamics of vulnerability in society. Combining complexity science and risk research by the method of agent-based simulation hereby emphasizes the importance of understanding interrelations inside the system for the system's development. I.e. for the evolving. Based on a vulnerability

Navigation

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 - Netzbasierende Speichersysteme
 - Didaktik-II
 - Miscellaneous
 - Juristische Fakultät
 - Bibliothek
 - Literature

Recent activity

Activity since Monday, 10 December 2012, 7:25 PM
Full report of recent activity...
Nothing new since your last login

Settings

- Course administration
 - Turn editing on
 - Edit settings
 - Users
 - Filters
 - Grades

Zusammenfassung & Ausblick



- Integration verschiedener Kataloge
 - PICA+
 - MARC21
- Anreicherung der Suchergebnisse
 - Cover
 - Rezensionen
 - ...
- Einbindung in Moodle
 - kursinterne Verwaltung
 - kursübergreifend
- BibTeX-Import

- Moodle Community Review läuft
- Veröffentlichung: open source



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