Joomla

We chose Joomla as one of our fellow colleagues uses Joomla! for his company called First Munich Event Tec.

Entities

Language Entities

Programming Language: PHP

Query language: MySQL/PostgreSQL

Technology Entities

Strato hosted webserver

Google Chrome as Webbrowser

Software System Entities

Information System: Easyjob (Rental Management System)

Web Application: First Munich Event Tec -specific Joomla Distribution

Virtuemart: Joomla Warehousing Plugin

Remository: File Repository for Joomla

Artifact Entities

```
Template (directory)
```

Components (directory)

Plugins (directory)

Modules (directory)

Includes (directory)

Router.php (internal backend file structure: joomla/administrator/includes)

Index.php

JDate (Date.php as defined in /libraries/joomla in utilities as date.php)

JFTP (ftp.php as defined in /libraries/joomla in client as ftp.php)

Software fragment entities

```
Function build ($url)
{
    $uri=patent::build($url);
    $route=$uri->getPath();
```

```
$uri->setPath(JURI::base(true).'/'.$route);
Return $uri
}
$date = new JDate('2014-04-03')
$date->add(new DateInterval('P12D'));
$ftp = JFTP::getInstance($host, $port, $options, $user, $pass);
```

Meaning Entities

Function build (\$url) converts internal URIs to routes

The artifact JDate saves a date and can be manipulated as well as printed in different styles New JDate() updates the dates

Add(new DateInterval()) adds a specified amount of time to the current date

The Artifact JFTP is an FTP client class that allows connecting and interacting with an FTP server.

The JFTP::getInstance() method will connect Joomla to the FTP server and automatically log in.

Software Concept Entities:

Model-View-Controller

WYSIWYG-Editing Concept

Resource Entities:

Joomla Wiki: http://www.joomla-wiki.de/dokumentation/Joomla! Wiki

Joomla Documentation: http://docs.joomla.org/Main_Page

Remository Extension/Component Description http://extensions.joomla.org/extensions/directory-a-documentation/downloads/83

Portal: http://www.joomla.org/ and http://www.joomla.org/

Developer: http://www.joomlaexpertdeveloper.com/

Request

JFTP::getInstance()

Protocol

FTP is the protocol with which the developer can exchange data with the webserver that Joomla is hosted on

HTTP protocols (Actual user/visitor interface)

SSL Protocols

Standards

CSS (in correspondence with the W3C Standard classification)

Organizations

First Munich Event Tech

People:

Marc Straubinger

Role

Manager and Developer

Relations

Relationships

Part of

Index.php is part of Joomla!

\$ftp = JFTP::getInstance(\$host, \$port, \$options, \$user, \$pass) partOf JFTP

Implements

router.php implements router

Conforms to

Joomla conforms to Model-View-Controller pattern

Uses

Joomla uses PHP

Joomla uses MySQL

Joomla uses JavaScript

Developer uses Joomla Wiki

Defines

JDate defines date

Develops

JoomlaExpertDeveloper develops Joomla interfaces

Element of

\$ftp = JFTP::getInstance(\$host, \$port, \$options, \$user, \$pass) ElementOf PHP

Supports

Joomla supports SSL Protocol

Yields

JFTP::getInstance() yields FTP host name (and others)

Knows of

MarcStraubinger knows of PHP

Sources:

http://www.joomla-wiki.de/dokumentation/Joomla! Programmierung/Framework/JDate http://www.joomla-wiki.de/dokumentation/Joomla! Programmierung/Framework/JFTP http://extensions.joomla.org/extensions/directory-a-documentation/downloads/83

Drupal

Entities

Language Entities

Programming Language: PHP

Query language: any

Software System Entities

Web Application: First Munich Event Tec -specific Drupal Distribution

Database Management System: SQLite

Artifact Entities

Drupal core files

Sites folder

Index.php

Content files

Contributed Modules

Database.inc

Software Fragment Entities

PHP Data Objects

Concept Entities

Presentation-Abstraction-Control

WYSIWYG editing

Database Abstraction

Overriding

Content Taxonomy

Resource Entities

Drupal Community Documentation: https://drupal.org/documentation

Protocol

HTTP

Standards

CSS (in correspondence with the W3C Standard classification)

People

Marc Straubinger

WebDesigner

Role

Content Editor

Developer

Relations

Relationships

Part of

Drupal core files are part of Drupal Distribution

Index.php is **part of** Drupal Distribution

Sites directory is **part of** Drupal Distribution

Content files are part of Sites Directory

Uses

Drupal uses PHP

Drupal uses SQLite

Drupal uses any query Language (MySQL, MS SQL,..)

Drupal uses PHP Data Objects

Drupal uses HTTP

Webdesigner uses Drupal Community Documentation

Conforms to

Drupal conforms to Presentation-Abstraction-Control (PAC)

Content files conform to CSS

Is

Marc Straubinger is Content Editor

WebDesigner is Developer

Supports

Drupal supports SSL

Knows of

Marc Straubinger knows of Content files

WebDesigner knows of Drupal core files

Implements

Database.inc implements Database Abstraction

Core files **implement** Content Taxonomy

Core files implement WYSIWYG editing

Contributed modules implement Overriding

Sources:

http://en.wikipedia.org/wiki/Drupal https://api.drupal.org/api/drupal/8 https://drupal.org/documentation

Comparison:

- Joomla is more user-friendly than Drupal which is more developer-oriented, hence Drupal is capable of producing more complex sites than Joomla (ease of use)
- Joomla has more social networking features (community platform) whereas Drupal is stronger in the organization of complex content (features)
- Both web application frameworks are mainly written in PHP and belong to the PHP Web Application Framework System
- Due to the strict separation of content and design all content-specific data is stored in databases for which both system use SQL (Drupal also supports other Database Systems)
- The directory structure of both Web Application Frameworks is very similar, the API is
 included both times in an directory called "includes" and themes and other design-relevant
 directories are located in a distinct directory. Nevertheless, Drupal does not differentiate
 between plugins, modules and components and features a single directory for all third-party
 extensions
- The architecture of both CMS differ in the following points:
 - Joomla incorporates the Model-View-Controller Design Concept whereas Drupal incorporates the Presentation-Abstraction-Control Concept
 - Drupal has a core
- Both Drupal and Joomla offer caching plug-ins