



## OPEN LIMBAS Open Application Development System

Open source | No license fees | Web based

LIMBAS is a PHP-based open source framework with which you can create database-driven business applications. The range of functions extends from simple table management, generation of forms, reports and queries to workflow functions. This makes it possible to create small as well as large solutions, right up to own ERP systems. LIMBAS works with a decentralized and independent database, also included is a comprehensive rights management, groupware and many more features.

The focus at LIMBAS is on individuality in software development. Many business units remain special, their requirements can not be met by standard software. In these cases LIMBAS offers you short development time and cost-effectiveness.

Data from existing IT systems can be integrated in LIMBAS via interfaces and can be made available for E.g. portal services and Web portals.

In addition, existing company solutions can be extended with LIMBAS solutions via interfaces. A variety of solutions are possible with LIMBAS. Here some examples:



Access Alternative



CRM- Customer Relationship Management



Test Equipment Management



DMS - Document Management System



Equipment management



E-Commerce / Webshop



Productdatabase / Catalog



Workflow



Database Management System



Employee management



Groupware



Project Management System



Billing



ERP

## OPEN LIMBAS Open Application Development System

### Advantages

LIMBAS is web-based and is installed on a Linux server, so any authorized user can access LIMBAS with a standard browser. Create forms and reports, also tables, diagrams and layouts with Drag and drop. All solutions and individual applications under LIMBAS can be linked to each other and access to a common database. For LIMBAS, the open source idea is very important, so the source code is not only accessible with no license fees.

### Solutions

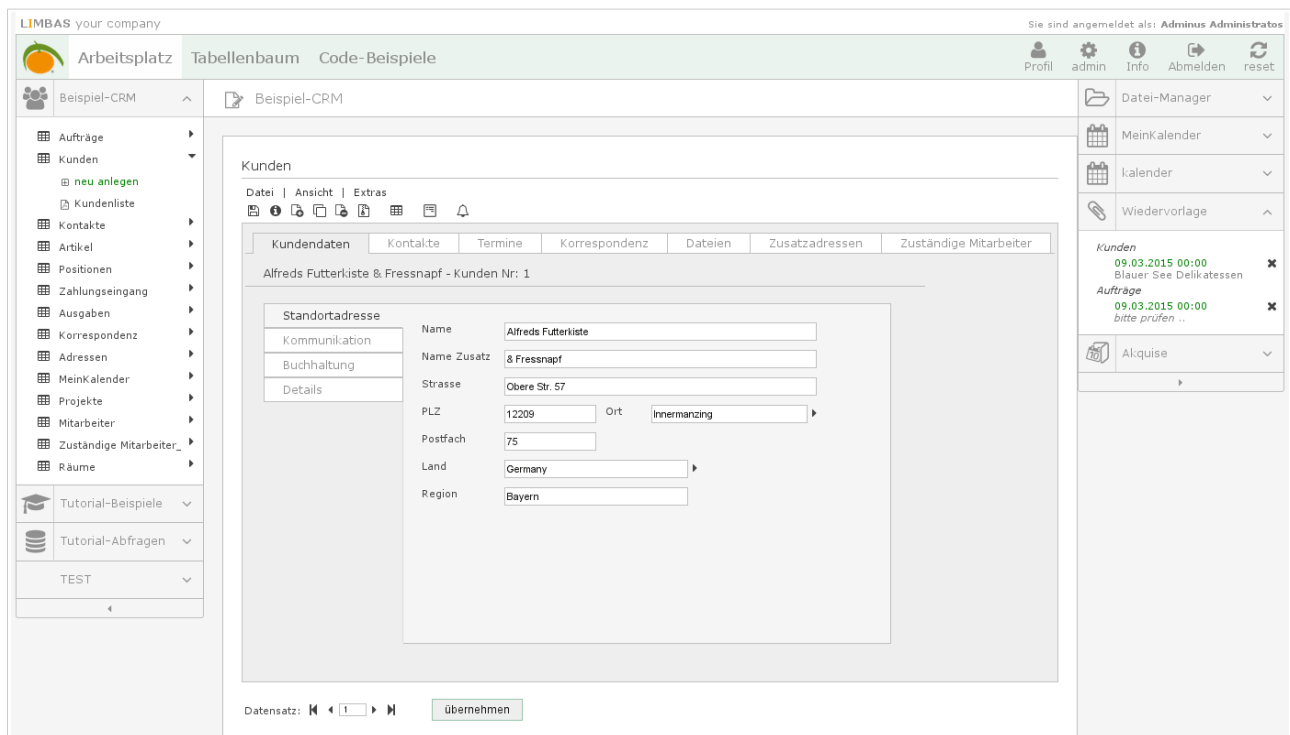
For your projects, we already have ready-made basic functionalities in the fields of DMS, groupware, workflow, access applications, image archives, rights allocation, and more. All solutions developed in LIMBAS are interlinkable and expandable, so you are investing with LIMBAS in the future. Your solutions can be adapted to changing company processes at any time.

### Database independence

LIMBAS is installed on a Linux server and can be connected via interfaces (SOAP) to various ODBC data base systems (MaxDB, SAPDB, MSSQL, PostgreSQL, MySQL and Oracle) and IT systems (SAP, ERP, GW, DMS).

### Safety

The LIMBAS access is only possible via user authentication. Group and user rights are assigned flexibly for all tables, fields, and records via the user / group management of the server. In addition to high data integrity through transaction security, data record and file dedication is supported. The complete data and document structure is displayed in the database, which enables a high performance and independence of the file system. All documents are stored encrypted in a browser-inaccessible directory. The data call is invoked without exception via the local user directory. The SOAP interface and a specially designed proxy server are used for external access. LIMBAS supports the database-driven backup strategies that ensure a high degree of effectiveness. Data access can be via SSL or VPN encryption.



The screenshot displays the LIMBAS web application interface. At the top, it shows the user is logged in as 'Adminus Administrator'. The main navigation bar includes 'Arbeitsplatz', 'Tabellenbaum', and 'Code-Beispiele'. A sidebar on the left lists various modules like 'Beispiel-CRM', 'Aufträge', 'Kunden', 'Kontakte', etc. The central area shows a 'Kunden' record for 'Alfreds Futterkiste & Fressnapf'. The form includes fields for 'Standortadresse', 'Name', 'Name Zusatz', 'Strasse', 'PLZ', 'Ort', 'Postfach', 'Land', and 'Region'. The right sidebar contains a 'Datei-Manager' and a list of recent activities for 'Kunden' and 'Aufträge'.

## OPEN LIMBAS Open Application Development System

Technical data	
Database	MaxDB / SAPDB / MSSQL / PostgreSQL / MySQL
Platform	Apache, PHP
Server minimum requirements	20 GB HDD, 2GB RAM
Browser Compatibility	Explorer, Firefox, Safari, Chrome
Interfaces and compatibility	HTTP, SOAP, ODBC, WEBDAV, LDAP, IMAP, WSDL, CALDAV
Desktopintegration	Via WEBDAV, Caldar, Browser
Indexing functions / Fulltext search	Metadaten, Text, XML, OpenOffice, MSOffice, PDF
License-free	GPL2 (general public license)
Operating system	Linux, Unix, Solaris, BSD, Ubuntu
PHP	PHP5 and higher: imap ,gd, soap, iconv, ftp, zlib, freetype, Unix ODBC
Characteristics	
Usability	Use via browser
Easy, intuitive user interface	Use of AJAX, Javascript, CSS, HTML5
Good performance	High speed even with large data volume
Plugin-free	Works without plugins or external programs
Dynamic customization of appearance	Data content and layout are dynamically adapted to the situation
Language independence	For backend and table description, forms, and report components
Functions / Core services	
Report editor	Postscript compatible report output, head, foot, tables, graphics, HTML converter, transparency, formulas, style
Form editor	TML output, text building blocks, layout elements, stylereference, tables, forms, events, subforms, PHP / JavaScript extensions
Table editor	Free field definition, field name language-independent, internal / external triggers, Table grouping, relation wizard, selection list wizard, attribute wizard, Arguments, formulas, own extensions
Graph editor	Bar, column, line and pie chart
Calendar	Calendar system for appointment management, CALDAV
Message modul	Message system for internal or external communication, IMAP
Jobengine	Jobengine for systemjobs (e.g., index) or custom extensions
Workflowengine	Integrated Workflowengine
Plausibility check	Frontend- and Backend-Plausibility check
Comfortable search functions	Search over all fields, search via links, remember your personal search
Follow-ups	User / group-specific resubmission with notification
Integrated DMS	Fully integrated DMS system
Import-Export Wizard	Import / export as asystem, XML, text; Remote import from other LIMBAS instances, Conversion import of existing tables, synchronization function
Language modul	Language translation module for easy translation of menu, system and database contents
Extension modul	Module for the flexible integration of extensions
SQL editor	Access to database
Backup	Use of the backup functionality of the databases

## OPEN LIMBAS Open Application Development System

Table management	
Table groups	Tables can be divided into groups
Table views	User-specific display and filter options as views
Flexible table linking	1:1 / 1:n / n:m ; Ajax-based clear and concise presentation of linked or grouped data
Dynamic search filter	Yes
Versioning	Data record conversion can be defined: automatic or manual as well as recursive or fixed, Links are included; Difference viewer
Field types	Text, Textblock, Memo, Number, Numbers, Boolean, File size, mimetype, URL, email, calendar, selection fields, attributes, upload, Argument, SQL argument, inheritance, link 1:1 / 1:n / n:m, category, grouping
Trigger	Group-specific internal or external DB triggers
Extensions	Flexible expansion interface for your own field types or functions
Indicator rules	Rules for highlighting single or multiple records
Display / edit rules	Definition of rules for display or editing
Rights management	
Group rights	Hierarchically inherited group system with rights to tables, files, reports, forms, menu structure
Individual rights	Rights for tables, files, reports, forms, menu structure
Rights	read / edit / delete / hide
Security	
Access	HTTP / HTTPS, WEBDAV, SOAP, ODBC, CALDAV
Encryption	User authentication, proxy access, file encryption, MD5 verification, SSL encryption, detailed user rights assignment
Password protection	Password-protected user and administration access
Authentication mechanism	Basic auth of the Apache server as well as internal database or external LDAP Authentication; Protection of user directories via generated .htaccess / htpasswd file
Integrated rights system	Hierarchically inherited group system, permissions for tables, files, reports, Forms, menu structure
Statistics	
Statistics and log functions	Login / usage statistics; User-dependent change log of all actions
Reporting options	Reporting via extensions as graphics or report output possible
Error report	Detailed error report for problem resolution

### LIMBAS GmbH

Sommerfeld 49 | D-82041 Oberhaching  
 Tel: +49 (0)89 / 490 26 85-0 | Fax: +49 (0)89 / 490 26 85-16  
<http://www.limbass.de> | [info@limbas.de](mailto:info@limbas.de)

Sitz und Registergericht Oberhaching | HRB 160392  
 USt-IdNr: DE247482465  
 Geschäftsführer: Axel Westhagen