

Ready Packaged Firebird on PHP



What is PHP?

- ★ Some of you here may be asking, what is PHP. A proper discussion of that would fill up it's own presentation, and some more of the detail will be filled in tomorrow. So lets just leave it as -



What is PHP?

- ★ Some of you here may be asking, what is PHP. A proper discussion of that would fill up it's own presentation, and some more of the detail will be filled in tomorrow. So lets just leave it as -
- ★ PHP is a programming language for providing dynamic pages of information to a web browser.



What is PHP?

- ★ Some of you here may be asking, what is PHP. A proper discussion of that would fill up it's own presentation, and some more of the detail will be filled in tomorrow. So lets just leave it as -
- ★ PHP is a programming language for providing dynamic pages of information to a web browser.
- ★ PHP runs on top of Apache or IIS and provides a middle layer that does not any licences. A perfect compliment to Firebird



The Second Layer

- ★ Apache is still the most popular web server despite Microsoft's attempts to destroy it.
- ★ Netscape's Communicator was not the only victim of the tactics, the netscape sever has also been almost wiped out.

Market Share for October 2005 - Across All Domains



Copyright (c) 1998-2005 E-Soft Inc.



The Second Layer

- ★ Apache is still the most popular web server despite Microsoft's attempts to destroy it.
- ★ Netscape's Communicator was not the only victim of the tactics, the netscape sever has also been almost wiped out.
- ★ Apache runs on anything

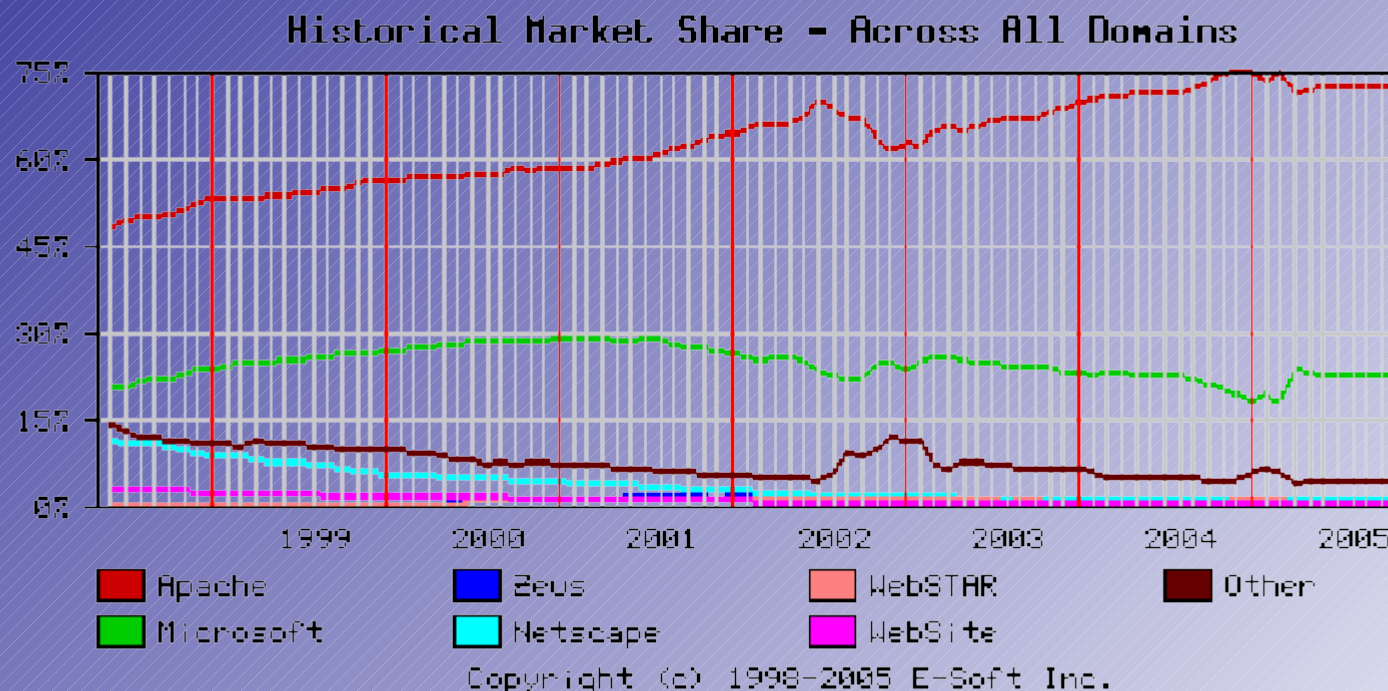
Market Share for October 2005 - Across All Domains



Copyright (c) 1998-2005 E-Soft Inc.

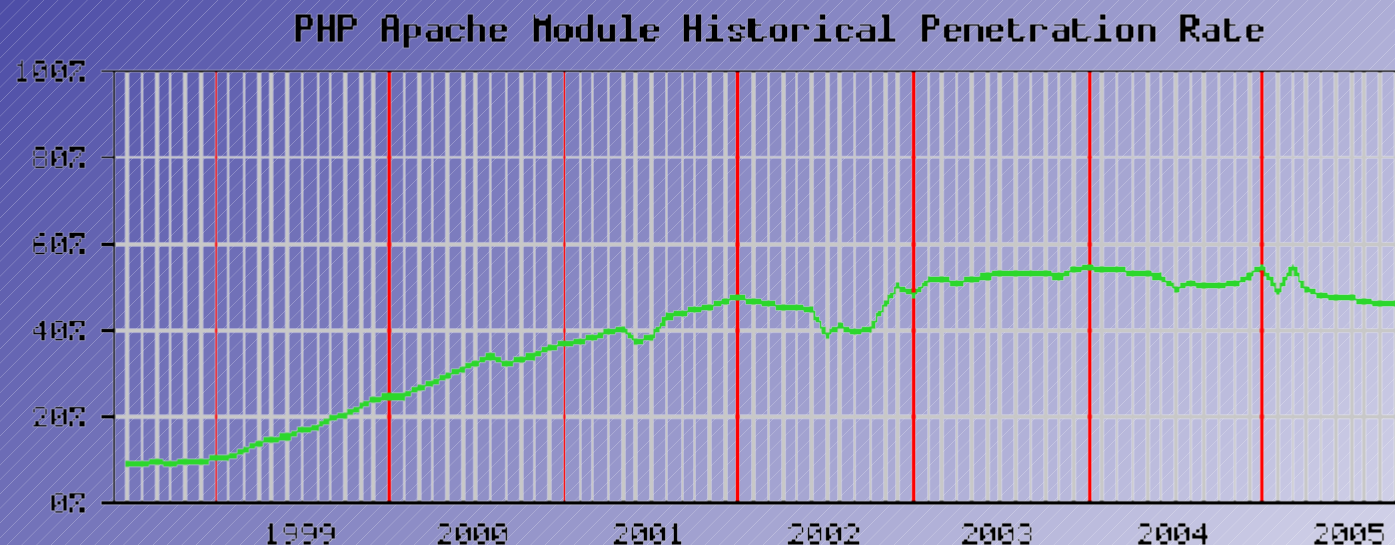


- ★ Apache maintains it's share
- ★ Up 1.5% since last March
- ★ But not sure why the step in March this year.



The Third Layer - PHP

- ★ The usage of PHP has grown steadily, but is under pressure from Python, Perl, Ruby and Java.
- ★ Most ISP's provide PHP in the same package as MySQL



Installation

- ★ **Beginners Guide to Firebird and PHP**
http://www.ibphoenix.com/main.nfs?a=ibphoenix&page=ibp_beginners_php
- ★ **Apache**
<http://apache.org>
- ★ **PHP**
<http://www.php.net/>
- ★ **Firebird**
<http://www.firebirdsql.org/>
- ★ **Mozilla**
<http://www.mozilla.org>



PHP Applications

Searching for PHP applications that are enabled for Firebird shows exactly why Mozilla's hijack of the Firebird name was such a major problem. Even today a simple search for 'Firebird PHP applications' will produce many browser related results. So what is available and what do they do.



ibWebAdmin

ibWebAdmin has to be the starting point, as it provides an on-line Firebird management tool. It is a Firebird specific alternative to MySql and PostgreSQL web based tools. It provides access to databases via the normal SQL interface, but in addition wraps those command line tools that it can access in a web based front end. The demo site running ibWebAdmin into the Employee sample database also provides an archive of useful location data which can be accessed via the interface.

Connection String

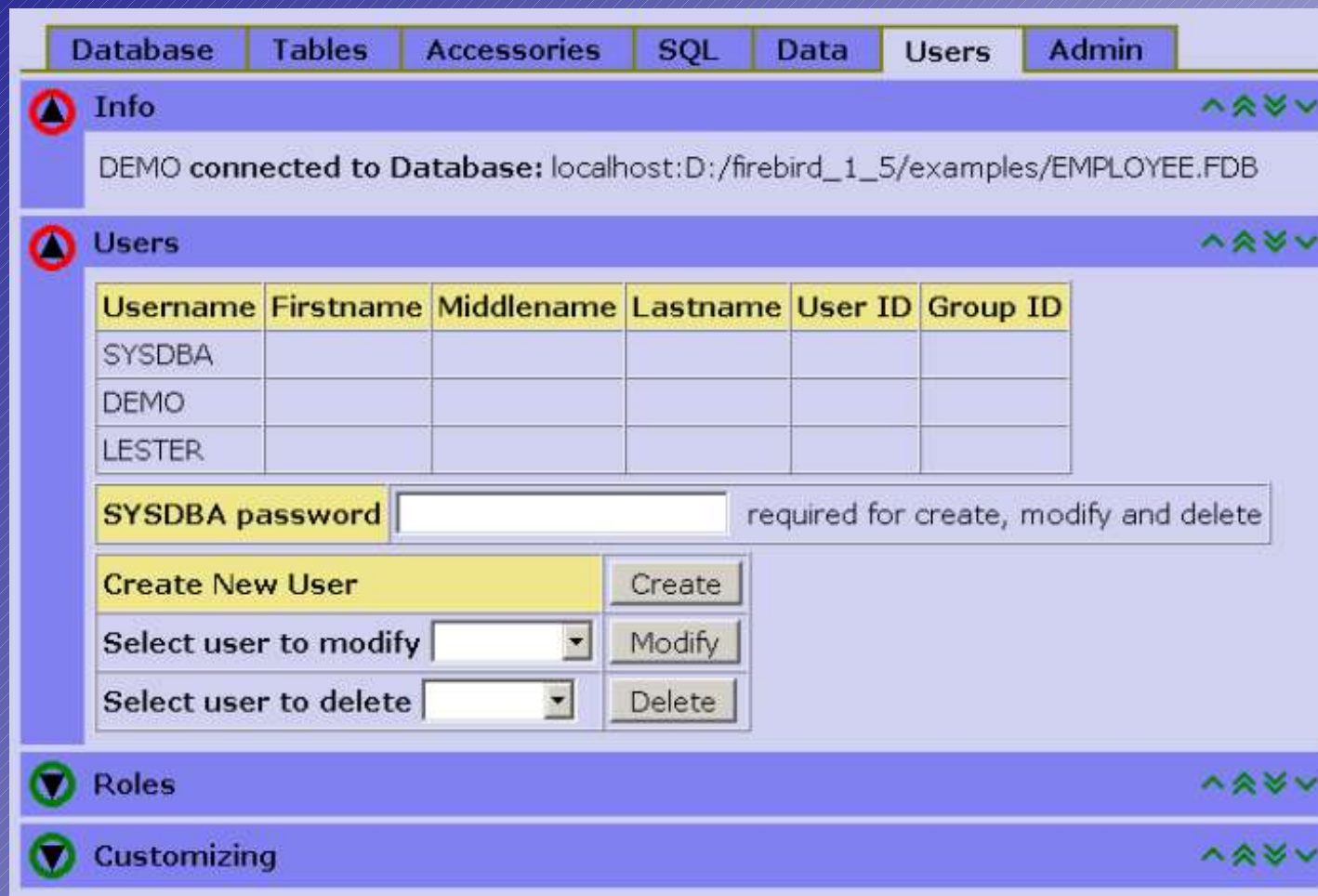
The screenshot shows the Firebird Administration Tool interface. At the top, there are tabs for 'Database', 'Tables', 'Accessories', 'SQL', 'Data', 'Users', and 'Admin'. The 'Database' tab is selected. Below the tabs, there are four main sections: 'Info', 'Login to Database', 'Create Database', and 'Delete Database'. The 'Info' section shows 'connected to Database: <none>'. The 'Login to Database' section contains fields for 'Database' (D:/firebird_1_5/examples/EMPLOYEE.FDB), 'Host' (localhost), 'Username' (DEMO), 'Password' (empty), 'Role' (empty), 'Cache' (75), 'Character Set' (ISO8859_1), 'Dialect' (3), and 'Server' (FB_1.5). A 'Login' button is located below the 'Role' field. The 'Create Database', 'Delete Database', 'System Tables', and 'Metadata' sections are also visible at the bottom.

Database	Host	Username	Password	Role	Cache	Character Set	Dialect	Server
D:/firebird_1_5/examples/EMPLOYEE.FDB	localhost	DEMO			75	ISO8859_1	3	FB_1.5

Login



User Management



The screenshot shows the Firebird User Management interface. At the top, there are tabs for Database, Tables, Accessories, SQL, Data, Users, and Admin. The 'Users' tab is selected. Below the tabs, there are four main sections: Info, Users, Roles, and Customizing. The 'Info' section shows the database connection: 'DEMO connected to Database: localhost:D:/firebird_1_5/examples/EMPLOYEE.FDB'. The 'Users' section contains a table of users, a password field for SYSDBA, and buttons for creating, modifying, and deleting users. The 'Roles' and 'Customizing' sections are currently collapsed.

Username	Firstname	Middlename	Lastname	User ID	Group ID
SYSDBA					
DEMO					
LESTER					

SYSDBA password required for create, modify and delete

Create New User

Select user to modify

Select user to delete



Viewing a Table

Database Tables Accessories SQL Data Users Admin

Info DEMO connected to Database: localhost:D:/firebird_1_5/examples/EMPLOYEE.FDB

Enter Data

CSV Import/Export

Watch Table: DEPARTMENT

Select Table
DEPARTMENT [Select] [Config]

1 - 21 (21 total)

DEPT_NO	DEPARTMENT	HEAD_DEPT	MNGR_NO	BUDGET	LOCATION	PHONE_NO		
000	Corporate Headquarters	NULL	105	1000000.00	Monterey	(408) 555-1234	edit	delete
100	Sales and Marketing	000	85	2000000.00	San Francisco	(415) 555-1234	edit	delete
600	Engineering	000	2	1100000.00	Monterey	(408) 555-1234	edit	delete
900	Finance	000	46	400000.00	Monterey	(408) 555-1234	edit	delete
180	Marketing	100	NULL	1500000.00	San Francisco	(415) 555-1234	edit	delete
620	Software Products Div.	600	NULL	1200000.00	Monterey	(408) 555-1234	edit	delete
621	Software Development	620	NULL	400000.00	Monterey	(408) 555-1234	edit	delete
622	Quality Assurance	620	9	300000.00	Monterey	(408) 555-1234	edit	delete
623	Customer Support	620	15	650000.00	Monterey	(408) 555-1234	edit	delete
670	Consumer Electronics Div.	600	107	1150000.00	Burlington, VT	(802) 555-1234	edit	delete
671	Research and Development	670	20	460000.00	Burlington, VT	(802) 555-1234	edit	delete
672	Customer Services	670	94	850000.00	Burlington, VT	(802) 555-1234	edit	delete
130	Field Office: East Coast	100	11	500000.00	Boston	(617) 555-1234	edit	delete
140	Field Office: Canada	100	72	500000.00	Toronto	(416) 677-1000	edit	delete
110	Pacific Rim Headquarters	100	34	600000.00	Kuau	(808) 555-1234	edit	delete
115	Field Office: Japan	110	118	500000.00	Tokyo	3 5350 0901	edit	delete
116	Field Office: Singapore	110	NULL	300000.00	Singapore	3 55 1234	edit	delete
120	European Headquarters	100	36	700000.00	London	71 235-4400	edit	delete
121	Field Office: Switzerland	120	141	500000.00	Zurich	1 211 7767	edit	delete



Edit an Entry

The screenshot shows the 'Edit from table DEPARTMENT' dialog box in Firebird SQL Enterprise Manager. The dialog has a title bar with tabs for Database, Tables, Accessories, SQL, Data, Users, and Admin. The 'Data' tab is selected. The dialog contains a table of fields to be edited:

DEPT_NO	000
DEPARTMENT	Corporate Headquarters
HEAD_DEPT	
MINGR_NO	105
BUDGET	1000000.00
LOCATION	Monterey
PHONE_NO	(408) 555-1234

At the bottom of the dialog are three buttons: Cancel, Reset, and Save. Below the dialog is an 'Info' section showing 'DEMO connected to Database: localhost:D:/firebird_1_5/examples/EMPLOYEE.FDB'. At the very bottom is an 'Enter Data' section.



Firebird Federation Data Archive

Firebird
SELECT FIRST 1 ROWS FROM open_source



Firebird Federation Data Archive

In order to access the archive database, change the selected database to the ARCHIVE entry in the drop down list of available databases, and use the User Name 'DEMO' and the password 'demo'. Select language NONE as some data sets have non-standard character sets.

Select <Login>

(Some areas of the archive will fail as the DEMO user does not have permission to carry out those actions.)

In order to view the contents of one of the tables, select the Data tab, Open Watch Table, and select the table of interest from the list.

On the same page you will find the CSV Import/Export facility, via which copies of the data can be exported to be used locally. Again select the table to export, a file name to call it at your end (this can be left as default and changed in your download windows if your browser is set to allow it)

Start ibWebAdmin

Contents of the Data Archive

A list of the available tables is maintained in the table DATA_INDEX, This has the current version details, and notes for each set of data.

COUNTRY - The internation country codes table

AU_POSTCODE - Australian Post Codes

AZ_POSTCODE - Azerbaijan Postcodes



bitweaver – CMS or Framework

bitweaver is probably not a name you are familiar with but I find it provides a tidy base for other numerous web applications. Having spent much time trying to find a suitable basis on to which to port my own legacy applications, I progressed to a framework called TikiPro, which was itself a port of the more popular TikiWiki content management system.



bitweaver – CMS or Framework

bitweaver is probably not a name you are familiar with but I find it provides a tidy base for other numerous web applications. Having spent much time trying to find a suitable basis on to which to port my own legacy applications, I progressed to a framework called TikiPro, which was itself a port of the more popular TikiWiki content management system.

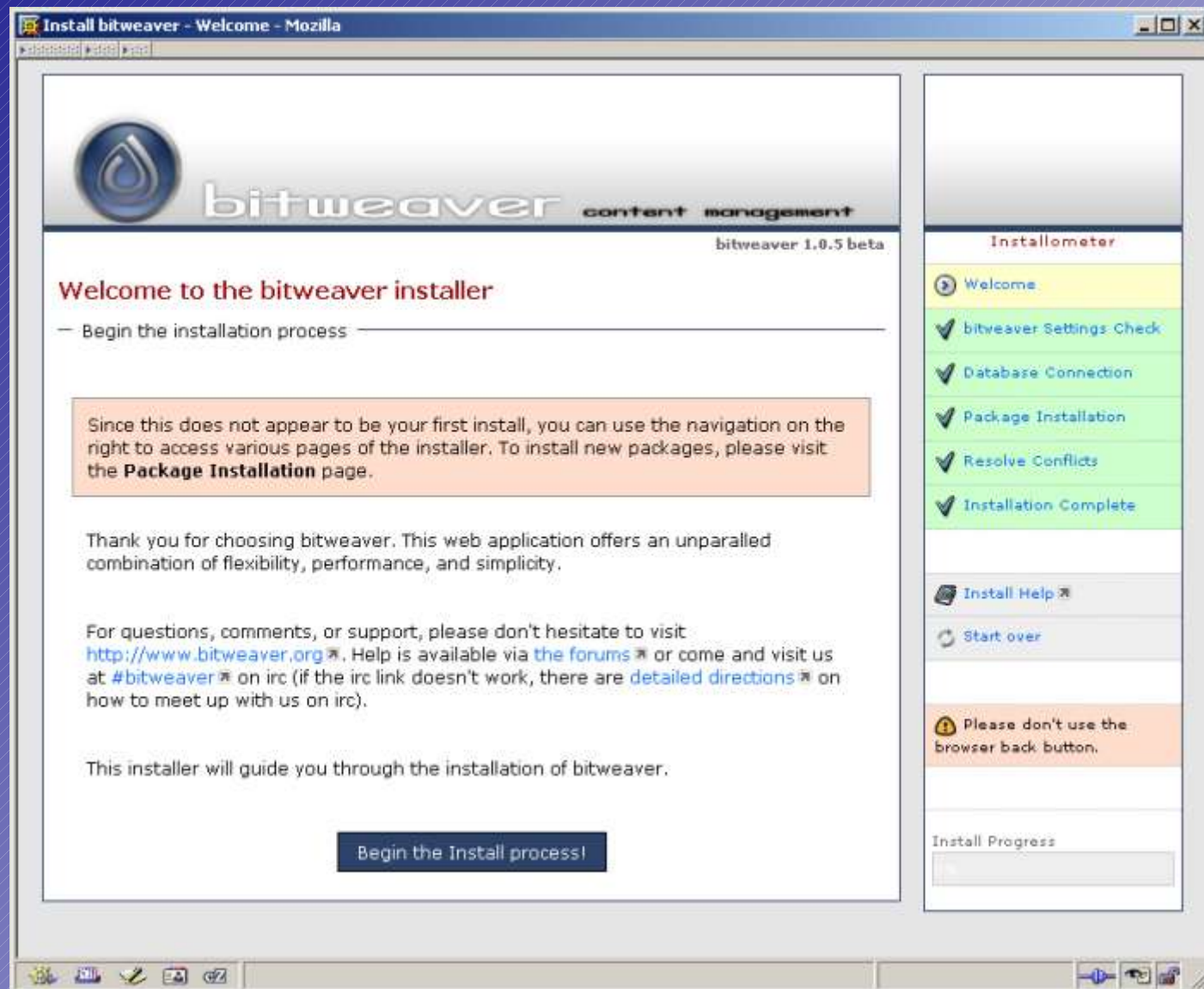
The bottom line is that the evolving good quality software is even more important in PHP and the bulk of existing code leaves a lot to be desired.

What is bitweaver?

- ★ Kernel
- ★ Languages
- ★ Liberty
- ★ Themes
- ★ Users
- ★ Blogs
- ★ Categories
- ★ Galaxia
- ★ Hotwords
- ★ Multisites
- ★ Tinymce
- ★ Quicktags
- ★ Search
- ★ Pigeonholes
- ★ Nexus
- ★ Shoutbox
- ★ Wiki



Install and Update



Go to install sequence

Install from scratch
www.bitweaver.org



User Management

The screenshot shows a web browser window titled "bwtest - Mozilla". The page has a red header bar with the text "Welcome to bwtest". Below the header is a navigation bar with links: "bwtest", "Calendar", "Categories", "Forums", "IR List", "Image Galleries", "Mapper", "My bwtest", "RSS", and "Wiki". The main content area is titled "Login Page" and features a large, stylized orange and yellow bird logo in the background. On the left side, there is a sidebar with two sections: "Users" containing a "Login" link, and "Packages" containing links for "Calendar", "Categories", "Forums", "IR List", "Image Galleries", "Mapper", "My bwtest", "RSS", and "Wiki". The central part of the page contains a login form with the text "Sign in with your username or email to continue". The form includes input fields for "Username or Email" and "Password", a "Remember me" checkbox which is checked, and a "Log in to this site" button. Below the form, there are two links: "Click here to retrieve your password." and "Click here to register with us.". On the right side, there is a "bitweaver" section with the text "Powered By bitweaver" and "Version: 1.0.5 beta". Below this is a "Server Statistics" section with the following data: "Execution time: 2.74s", "Memory usage:", "Database queries: 15", "GZIP: Disabled", and "Server load: ?". There is also a "Search" section with a search input field, a dropdown menu set to "Entire Site", and a "go" button. At the bottom right, there is a "Powered by" section with logos for "bitweaver", "smarty" (TEMPLATE ENGINE), "ADODB" (DATA POWER), and "Firebird". The footer of the page says "Powered by bitweaver".

bwtest - Mozilla

Welcome to bwtest

username

register

bwtest Calendar Categories Forums IR List Image Galleries Mapper My bwtest RSS Wiki

Login Page

Users

Login

Packages

Calendar

Categories

Forums

IR List

Image Galleries

Mapper

My bwtest

RSS

Wiki

Sign in with your username or email to continue

Username or Email

Password

Remember me ☒

Log in to this site

- Click here to retrieve your password.
- Click here to register with us.

bitweaver

Powered By bitweaver

Version: 1.0.5 beta

Server Statistics

Execution time: 2.74s

Memory usage:

Database queries: 15

GZIP: Disabled

Server load: ?

Search

search

Entire Site

go

Powered by

bitweaver

smarty
TEMPLATE ENGINE

ADODB
DATA POWER

Powered by
Firebird

Powered by bitweaver



My theme is better then yours

Style wars are just as prevalent in PHP as they are in C++, and so finding a style you are happy with is just as important as the language one is working with. The bitweaver framework is built using ADOdb and Smarty , and does not have any of the MySQL based problems of other systems.



Free Beer

The whole essence of PHP is the free interchange of code between projects. Many core functions have several solutions available and so if you find that the one you are using is not giving you the results you want, then someone else has probably already produced an alternative. The nice thing about web based applications is that you do not need to worry about the problems of deploying them onto customer machine. As long as they have a browser they can access Firebird.



Links

- ibWebAdmin - <http://www.ibwebadmin.net/>
- Data Archive - <http://home.lscs.co.uk/FirebirdFederationDataArchive.html>
- bitweaver - <http://www.bitweaver.org/>
- Alternatives - <http://www.opensourcecms.com/>



For all your building needs

*Lester Caine
L.S.Caine Electronic Services
25 Smallbrook Road
Broadway
Worcestershire
WR12 7EP
United Kingdom*

