



# CSI Connect

A tri annual newsletter of  
CSI Student Branch  
Aishwarya Institute of Management & IT  
Udaipur



September - December 2013

## Events and Activities

**October 25 2013** : An orientation for internship programme was organized especially for students of MCA Semester V by CSI Student Branch, AIM & IT through Varsity Graduate to Corporate Program. The guest was Mr. Saurabh Jain, BD & HR executive from of Monsoon varsity an initiative of Monsoon Consulting based in Dublin, Ireland and Jaipur, India.

The speaker presented the company profile, discussed about current industry trends touching areas like PHP, Java, .Net, Android,



Students during the assessment test



Mr Surabh Jain appraising the students

Drupal, Magento, QA and Advanced Java. Further introduced graduate to corporate program which was followed by an assessment test. 25 students participated in this event and as per company selection criteria one student who has been selected for the internship programme if Nikita Sharma and two students in waiting list.

It was an effective and learning programme for students. Student was very excited for appearing in this test and actively participated in discussion on current trends in software industry and industry expectations from students.

**November 11 2013** : CSI Student Branch Committee 2013-14 (SBCom) was announced followed by a Technical Talk on "Software Quality" at CSI Student Branch at Aishwarya Institute of Management and IT, Udaipur. The guest expert Dr T V Gopal, Professor at Department of CSE, Anna University, Chennai and Chairperson CSI Division II (Software) was welcomed by Dr Archana Golwalkar (Director & CSI SBC) sharing about the working and achievements of CSI Student Branch.

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(MCA)

**Rakhi Singh Chouhan**

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### IMPORTANT LINKS

[www.aishwaryacollege.org](http://www.aishwaryacollege.org)

[www.rtu.ac.in](http://www.rtu.ac.in)

[www.csi-india.org](http://www.csi-india.org)

[www.ekalavya.it.iitb.ac.in](http://www.ekalavya.it.iitb.ac.in)

[www.nbrc.ac.in/library/free\\_ebooks.htm](http://www.nbrc.ac.in/library/free_ebooks.htm)

[www.delnet.nic.in](http://www.delnet.nic.in)

### Student Board Com 2013-14

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During the technical talk on "Software Quality" Prof. T V Gopal threw light on nature of

Software, its development and quality factors. He defined Software quality and its need underlining the success rate in Software Quality as 32%; discussing the challenges he said that software flexibility is its strength as well as weakness and developed an understanding

among audience on "What cannot be measured cannot be managed".

The session provided an in depth insight towards Software Quality and its need to be included as a part of curriculum. At the end of the session Ms Akanshka Bhatnagar (BCA II) thanked the Prof. T V Gopal. The program was anchored by Ms Pooja Kothari (MCA III).

**November 11-13, 2013** : A three days CSI Workshop on **PROGRAMMING SKILLS WITH RAD AND RIA (Rapid Application Development and Rich Internet Application) using Agile Toolkit** from 11-13 November 2013 at Aishwarya College Campus was organised by Aishwarya Institute of Management & IT-Student Branch CSI in technical collaboration with Xavoc Technocrats Pvt. Ltd.

The team of technical experts comprised of Mr. Gowrav Vishwakarma - Managing Director & Founder, Xavoc Technocrats Pvt. Ltd., Udaipur; Ms. Khushbu Soni - Director & Chief Technical Officer, Mr. Shishir Darolia - Director & Chief Executive Officer, Mr Danish

Sharma - Branch Head - Xavoc Technocrats Pvt. Ltd., Jaipur and Mr. Ravindra Singh Kelawat - Sr. Developer, ATK-UK certified Trainer, Jaipur. The workshop was practical based and covered Introduction to Programming, history, Current Programming Trend with Respect to Market Cloud, Data Centers, Centralized working, changing programming business trends; MVC, Ajax, jQuery, less etc; Understanding framework concepts, web and Internet Model (including IP, URL, Servers, Ports etc); RIA (Rich Internet Application), Open Source, Basics of PHP programming, PHP framework and Agiletoolkit, A practical application development to

demonstrate RAD systems; OOPs and MVC, apache web server, php, mysql and phpmyadmin; Application development in php with agile toolkit framework; enhancing UI; DataBase Application development (Create database, tables and Models, Models and CRUD and Validations Management. Manual Forms Handling, Form Validations; Where to go for further self study or guided study; Joining online community to get help from world class programmers and more.

There were 36 participants in the workshop. The participants interacted with the experts and got exposure to RAD and RIA with the help of Agile Toolkit Framework.



**November 27 2013** : A session was organized by CSI Student Branch, AIM & IT for the students of BCA and MCA under the campaign for "Techno Minds - Power Your Future", Aptech's initiative with Microsoft for a National App Development Talent Hunt 2013-14.



Students appearing for Aptitude test

This innovative program has the objective to provide the students with an unique opportunity to get

recognized for their ideas, skills and talent and an opportunity to be a part of Windows App Builders Club, leverage Microsoft App Labs, get mentored by professionals from Microsoft, get Microsoft Certified, publish their Apps on Windows Store and earn recognition at a National level.

To begin with the students were explained about trends in mobile Application development and the opportunity for students for gaining recognition and rewards as part of the program with merit scholarship of Rs. 1,00,000 by Mr. Ganesh Suthar Technical Head Aptech Computer Education. In the other part of the session an Aptitude test was conducted by Mr. Kushal Sharma (Center manager, Aptech Computer Education, Udaipur) for the CS students. Results reveal the top ten scorers as

Participant Name	Course & Sem/Year
Surbhi Jain	MCA 1st sem
Tilkesh Kumar Swarnkar	MCA 1st sem
Yogesh Vishwakarma	BCA III Year
Mehdi Hassan	BCA I Year
Mohammed Sadri	BCA I Year
Dipak Labana	BCA II Year
Rakesh Kumawat	BCA I Year
Mustafa KuttubuddinTatiwala	BCA I Year
Vijay Mishra	BCA II Year
Dinesh Chandra Kumawat	BCA I Year

Congratulations to Ms Surabhi Jain and the students for gaining position in top ten. These students have been awarded with a certificate by Microsoft and Aptech. The topper will be joining free training by Aptech Computer Education on Mobile Application Development and will participate in the next level of National talent Hunt drive.

**December 16 2013** : A technical talk was organized to commemorate “World Computer Security Day” on “Security of Cloud Computing Environment” invited expert was Mr Chandresh K Chatlani, Professor, JRNRV, Udaipur.



**Mr Chandresh Chatlani interacting with students**

Prof. Chatlani commenced the session by considering basics of computing, Computer networks, Virtual Networks. Thereafter Cloud Computing, its services like I A A S , P A A S and S A A S , Architecture, Types and benefits were discussed in detail. The various security issues described by him were - Lack of control, less transparency, abusing of cloud computing, malicious insider and

Shared technology. He included various examples which were appreciated by the students.

At the end of the talk question answer session for students was conducted by Dr Archana Golwalkar (Director & CSI SBC) to assess student understanding about the topic and encouraged the students. Rakesh Kumawat

(BCA I), Surabhi Jain (MCA I) and Swati Dodeja (BCA III) were appreciated in the question answer round. The introduction and welcome of the guest was done by Ms Ms. Abhilasha Chazzed (BBM I), Ms. Swati Dodeja (BCA III year) gave a vote of thanks and token of respect was given by Ms. Manisha Jheengar (BCA III year).

## INFORMATION HUB: RAPID APPLICATION DEVELOPMENT

The shift from traditional session-based client/server development to open session less and collaborative development like Web 2.0 has increased the need for faster iterations through the phases of the software development process. This, coupled with the growing use of open source frameworks and products in core commercial development, has, for many developers, rekindled interest in finding a silver bullet RAD methodology. Rapid Application Development (RAD) can be

considered as a type of Agile technique or vice-a-versa. Some may, however, choose to separate these two based on the fact that RAD focuses on developing what is interesting instead of what is needed, as in conventional Agile. But it can be argued that end users are eventually going to need what interests them, thus making it hard to differentiate between the two methodologies.

Although most RAD methodol-ogies foster software re-use, small team structure and, most RAD practitioners

recognize that, ultimately, no one “rapid” methodology can provide an order of magnitude improvement over any other development methodology.

All types of RAD have the potential for providing a good framework for faster product development with improved software quality, but successful implementation and benefits often hinge on project type, schedule, software release cycle and corporate culture. It may also be of interest that some of the largest software vendors such as

Microsoft and IBM do not extensively use RAD in the development of their flagship products and for the most part, they still rely primarily on traditional waterfall methodologies with some degree of spiraling.

**Cross-platform RAD tools**

Accelerator Development Solutions provides end-to-end RAD generation and other

productivity frameworks for C# and for cross platform support C.

Alpha Five: A rapid development tool for building database driven web and mobile tools based on HTML5.

AppFlower: A RAD platform allowing to build Business Applications working on every devices.

Code::Blocks is a cross-platform C/C++ RAD IDE using wxWidgets; the latest developmental builds have a built-in form designer wxSmith, so it's similar to Embarcadero C++ Builder and Microsoft Visual C++/MFC now.

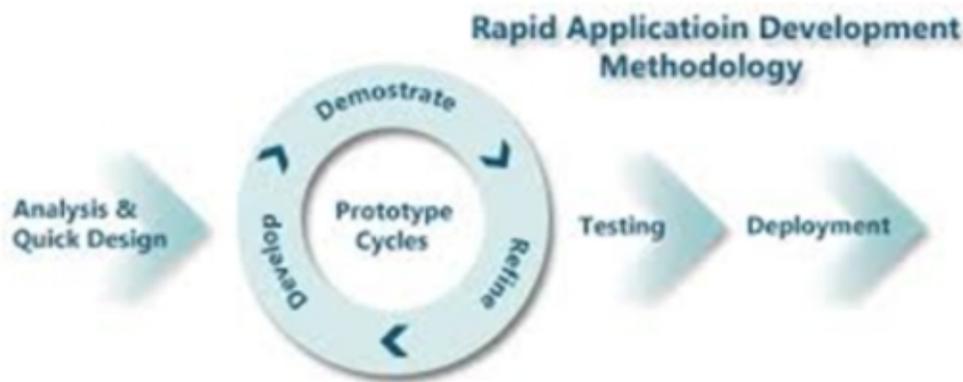
DaDaBIK is a software written in PHP aimed at quickly creating a CRUD (create, read, update, delete) database front-end or a simple database-driven application without coding. The DBMSs currently supported are: MySQL, Postgre SQL and SQLite.

HyperNext is a freeware cross-platform software development system for Mac OS X & Mac OS 9, and Microsoft Windows XP & Vista. It has many similarities with HyperCard and can compile to both stand alone applications and stacks for the cross-platform HyperNext Player.

Ebase Xi is a commercial rapid application development that combines web browser-based user interface development, business process management and data integration into a single-technology IDE.

IBM Rational Business Developer Extension is a cross-platform, Rapid Application Development IDE for creating enterprise and web applications and services for Windows, Linux, Unix (Solaris, HP/UX, AIX), System z and System I

IBM Rational Application Developer is a cross-platform, Rapid Application Development IDE for creating enterprise and web



applications and services for Windows, Linux and Unix (Solaris, HP/UX, AIX)

LANSA is a development environment for generating applications on multiple platforms. One of the main features of LANSA is its high level programming language, called RDML (Rapid Development and Maintenance Language). It is classified as a 4GL (4th generation language). LANSA-developed applications run on many systems including MS Windows, IBM i and Linux.

Lazarus is a cross-platform IDE similar to Embarcadero Delphi.

m-Power is a Software Development tool which automates application development and rapidly creates enterprise-class Web applications over any database or platform.

MyEclipse is a Rapid Application Development environment, focusing on enterprise Java and Web application development. The specialty MyEclipse "Blue Edition" is most similar to IBM Rational Application Developer.

NetBeans is a cross-platform, RAD IDE for creating visual desktop, mobile, web, and SOA applications for Linux, Windows and Mac OS X. The IDE officially supports Java, PHP, JavaScript and C/C++ programming languages.

nuBuilder is an open source browser based database development tool which stores all forms, reports, data and any custom code in MySQL and displays the content dynamically.

Omnis Studio is a cross-platform, Rapid Application Development tool or IDE for creating enterprise and web applications for Windows, Linux, Solaris, and Mac OS X.

OpenROAD is a cross-platform IDE

for Linux/Unix, Windows with embedded SQL support

Panther is a cross-platform (Windows, Unix, Linux; TUI, GUI, Web), cross-database RAD toolset for development of client-server and n-tier database-oriented applications.

PureBasic Form Designer is a drag & drop development tool integrated into the PureBasic IDE that compiles to very compact 32 and 64-bit machine code executables for Windows, Linux and Mac OS X.

Real Studio is a cross-platform IDE for creating desktop applications for Windows, Linux and Mac OS X. The language is similar to both VB and Java. It compiles to machine code, uses native controls and produces native executables.

RadRails is a cross-platform IDE for creating Ruby on Rails web applications.

Servoy Servoy is a cross-platform application development and deployment environment. Servoy consists of a GUI designer, is event-driven and runs scripts through JavaScript. Servoy allows applications to be deployed to both a native Smart client / Rich client and to a pure HTML Web client from the same codebase and user interface

Smartface Platform: A cross platform tool for Windows used to create mobile applications for J2ME, Symbian S60, BlackBerry and Android, using drag-and-drop tools and action editing.

Squeak is an open-source, cross-platform Smalltalk system which can be used to develop applications for desktop, mobile, server-based, and web platforms. Squeak supports Windows, Linux, Mac OS X, Mac OS Classic, many flavors of Unix, and a handful of other operating systems.

Squeak is the home of the Seaside RAD web app framework and multiple GUI toolkits, some of which allow the building of GUIs by drag and drop.

Ultimate++ is a C++ cross-platform rapid application development framework, featuring an integrated development environment called TheIDE.

Visual FoxPro With its local cursor engine, tight coupling between language and data, and various features, Visual FoxPro 9.0 can be used for building database solutions of all sizes. Its data-centric, object-oriented language offers developers a set of tools for building database applications for the desktop, client-server environments, or the Web. Developers will have tools to manage data, from organizing tables of information, running queries, and creating an integrated relational database management system (DBMS) to programming a fully developed data management application for end users. Note: Manufacturer announced in 2007 that there would be no future releases of this product.

VisualWorks is a cross-platform Smalltalk RAD for creating desktop, mobile, enterprise, and web-based applications for Windows, Linux, Mac OS X, Mac OS Classic, and a number of Unix systems. The system supports popular protocols and frameworks like ODBC, Seaside, and GemStone/S. Commercial and free non-commercial versions available.

Web Dynpro is SAP's RAD to create web applications connected to function modules in mySAP ERP.

WideStudio is an open source integrated development environment for desktop applications purely made in Japan.

XVT is a cross-platform, Rapid Application Development IDE for creating enterprise and desktop applications in C/C++ on Windows, Linux, Unix (Solaris, HPUX, AIX), and Mac

XPower++ is a cross-platform IDE for Windows, Linux, Mac OSX, and Mobile operating systems.

CA Plex, a software development tool that combines the techniques of model-based development, patterns

and code generation to accelerate the delivery and maintenance of multi-platform, distributed business applications

Philasmicos Entwickler Studio is a cross-platform C/C++ RAD IDE for wxWidgets.

### Cloud-based RAD tools

AppFlower is a cloud based platform to develop Business Applications without hand coding.

Coghead (is out of business as of 2009)

Intalio|Create is a rapid application development platform for enterprise class web and mobile apps.

Mendix is an enterprise application platform that facilitates the building, deployment and integration of web and mobile applications.

nuBuilder is an open source, browser based database development tool which stores all forms, reports, data and any custom code in MySQL and displays the content dynamically. With a tool available for converting from data, forms and reports from MS Access.

Progress Software Rollbase is a platform that allows rapid creation of robust and scalable software as a service (SaaS), data rich business apps using only drag & drop tools and minimal code. It has import utilities for MS Access and Force.com apps.

Wavemaker is an open-source, visual, drag and drop development studio that runs in a browser and generates standard Java applications for deployment.

Zoho Office Suite

### Desktop rapid application development tools

Accelerator for .NET provides end-to-end RAD generation and other productivity frameworks for .NET, including support for MVVM, WCF, and WF.

Qt is a cross-platform application and UI framework. It includes a cross-platform class library, integrated development tools and a cross-platform IDE.

C++Builder

Clarion is a data-centric Advanced Rapid Application Development (ARAD) tool featuring roundtrip code generation that preserves all of

your own hand-written code while allowing you to re-generate your application as often as needed. It provides reusable metadata to quickly create "corporate quality" applications to manage business data

Code::Blocks

Delphi

Dolphin Smalltalk is a Smalltalk development environment for Windows with advance RAD features. Proprietary, with a free Community Edition.

Delphi for PHP Ebase Xi is a commercial rapid application development platform that combines web browser-based user interface development, business process management and data integration into a single-technology IDE.

Gambas Basic, Open source, Linux

Gupta Team Developer / SQLWindows

Microsoft Visual Basic

Lazarus Pascal, Open Source, Multi-platform

LiveCode

Panther

PowerBASIC Forms (PBForms)

PureBasic Form Designer is a multi-platform drag & drop development tool integrated into the PureBasic IDE that compiles to very compact 32 and 64-bit machine code executables for Windows, Linux and Mac OSX.

Real Studio from REAL Software is a cross-platform, drag and drop development tool that compiles to machine code, uses native controls and produces native executables for Mac OS X, Windows, Linux and the web.

Softwell Maker is a desktop IDE with a cross-platform deployment component allowing publish application into almost any Java enable system

wxDev-C++

Microsoft Visual Foxpro

WinDev

XVT

GNAVI

VX-REXX Rextx-based development tool for OS/2 and eComStation

### Database rapid application

## development tools

AppFlower open source application builder using Propel with a visual designer for Model Add/Edit/View.

Base One Foundation Component Library (BFC) is a RAD framework for building .NET applications using SQL Server, Oracle, DB2, Sybase, and

MySQL databases.

Clarion is a data-centric Advanced Rapid Application Development (ARAD) tool featuring roundtrip code generation that preserves all of your own hand-written code while allowing you to re-generate your application as often as needed. It provides reusable metadata to quickly create "corporate quality" applications to manage business data

CodeCharge Studio is a visual rapid application development environment for web-based database driven application development. CodeCharge Studio places emphasis on code generation technology to provide ASP.NET, PHP, JSP, Servlets, and Perl language support.

DaDaBIK is a software written in PHP aimed at fastly creating a CRUD (create, read, update, delete) database front-end or a simple database-driven application without coding. The DBMSs currently supported are: MySQL, PostgreSQL and SQLite.

Ebase Xi is a commercial platform that combines web browser-based user interface development, business process management and data integration into a single-technology IDE.

IBM Rational Business Developer Extension supports database application development for IBM DB2, IBM Informix, Oracle database, Microsoft SQL Server and other JDBC compliant relational databases

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IBM Lotus Notes is a RAD environment for collaboration and document management tasks.

FileMaker is a cross-platform database application from FileMaker Inc. (a wholly owned subsidiary of Apple Inc.)

OpenOffice.org Base is an open source database-driven RAD development environment for building client (desktop) based applications.

Kexi is an open source database-driven RAD development environment for building desktop applications. It is considered an alternative to Open Office Base in the Open Source environment and provides similar features to commercially available RAD development environments such as FileMaker, Alpha Five and Microsoft Access.

m-Power is a Software Development tool which automates application development and rapidly creates enterprise-class Web applications over any database or platform.

nuBuilder is an open source browser based database development tool which stores all forms, reports, data and any custom code in MySQL and displays the content dynamically.

Oracle Forms

Oracle Application Express (Oracle APEX) is software development environment based on the Oracle database. It allows a very fast development cycle to be achieved to create web based applications.

Outsystems Platform

Panther is a cross-platform (, Unix, Linux; TUI, GUI, Web), cross-database RAD toolset for development of C/S and n-tier database oriented applications.

Progress Software Rollbase is a platform that allows rapid creation of robust and scalable software as a service (SaaS), data based business apps using only drag & drop tools and minimal code. It has import utilities for MS Access and Force.com apps.

Real Studio from REAL Software is a cross-platform, visual, drag and drop development tool with an object-oriented language that has a report editor and supports database connectivity to SQLite, Oracle, MySQL, Microsoft SQL Server (Windows only), Postgres and ODBC.

Softwell Maker is an ultra RAP data-centric IDE with a cross-platform deployment component allowing publish application into almost any Java enable system.

Sybase PowerBuilder is data-driven development tool for creating client/server, distributed, Web and Smart Clients applications for JEE, Win32, and .NET platforms.

Visual DataFlex is a Windows based development environment for creating Windows and web-based database applications. Object oriented, database neutral, 3-tier model (database - business rules - user interface).

Wavemaker is an open-source, visual, drag and drop development studio that runs in a browser and generates standard Java applications for deployment. Runs on Windows/Linux/macOS.

WinDev

## Embedded control rapid application development tools

VisSim is a block diagram language for model based embedded system development

LabVIEW is a graphical programming language that allows you to program embedded off-the-shelf systems, FPGAs, custom designs  
EICASLAB is a Visual programming language that allows you to design embedded control architectures, providing assistance in modelling, simulation, rapid control prototyping and automatic code generation for the final target.

## Notification/communication rapid application development tools

Boomerang Software Framework - Boomerang is a notification/communication framework for professional developers that provides a service oriented infrastructure and a rapid development interface. The infrastructure supports e-mail out, printers, fax servers, file/ftp servers and incoming e-mail (e-mail to database).

## Web-based RAD tools

Active Agenda's code generator is a RAD development framework using XML specification files and the PHP development language.

Alpha Five is a commercial RAD

development environment for both client and web-server based database driven applications. This tool is typically classified with commercial packages such as Microsoft Access and FileMaker. has, in the last few years, evolved into becoming a real alternative to PHP, Visual Studio.net and Ruby for building database driven web apps, but in a lot less time because its RAD component approach.

AppFlower is a very rapid application development framework for creating enterprise application without the need of coding. Advanced users can extend AppFlower applications using PHP, the Symfony framework and ExtJS.

BFC is a RAD framework for both client and server-side development in the .NET environment.

CakePHP is a RAD development framework using the PHP development language.

Caspio is a platform-as-a-service framework that uses wizards instead of coding for RAD.

CodeCharge Studio is a visual RAD development environment for web-based database driven application development. CodeCharge Studio places emphasis on code generation technology to provide ASP.NET, PHP, JSP, Servlets, ColdFusion and Perl language support.

Django is an open source web application framework, written in Python, which loosely follows the model-view-controller design pattern.

Ebase Xi is a commercial platform that combines web browser-based user interface development, business process management and data integration into a single-technology IDE.

Grails is an open-source Groovy-based high-productivity framework inspired by Ruby on Rails and following the "coding by convention" paradigm. Grails applications can run in standard Java servlet containers.

IBM Rational Business Developer Extension is a cross-platform, Rapid Application Development IDE for creating enterprise and web applications and services for Windows, Linux, Unix (Solaris, HPUX, AIX), System z and System I

Joget Workflow is an open source web-based application builder with emphasis on workflow and Business Process Management.

Koding is an online development environment with the goal of simplifying worldwide development and providing free computation and development to everyone.

LibreSource

Morfik is a Windows web RAD tool with cross platform deployment.

m-Power is a Software Development tool which automates application development and rapidly creates enterprise-class Web applications over any database or platform.

nuBuilder is an open source browser based database development tool which stores all forms, reports, data and any custom code in MySQL and displays the content dynamically.

OpenXava is a domain-driven Java framework for rapid development of AJAX applications. It's open source.

Oracle Application Development Framework uses Oracle's JDeveloper a FREE IDE that supports ADF's J2EE based framework.

Panther is a cross-platform (Windows, Unix, Linux; TUI, GUI, Web), cross-database RAD toolset for development of client-server and n-tier database oriented applications.

Pinax is python/django based platform for rapidly developing web based apps that integrates reusable Django apps and providing starter projects and infrastructure tools, so your apps already have capabilities like user registration, login, lost password workflows etc.

Pylons is a set of open source web application frameworks, written in Python, which makes extensive use of the Web Server Gateway Interface (WSGI) standard to promote reusability and to separate functionality into distinct modules.

radPHP commercial, visual, rapid application development IDE for PHP by Embarcadero (formerly Delphi for PHP)

Real Studio Web Edition is a rapid application development environment for the web. The language is object oriented and is similar to both VB and Java. Applications are uniquely compiled

to binary code.

Ruby on Rails sponsored by 37signals

Scriptcase is a powerful tool to increase web development productivity. It supports most databases available generating highly customizable PHP code, AJAX and JQUERY.

Spring Roo is an open source

rapid application development tool that produces Java-based Spring applications.

Symfony

Visual DataFlex is a Windows based development environment for creating advanced web-based database applications using AJAX. Object oriented, database neutral, 3-tier model (database – business rules – user interface).

Wavemaker visual, drag and drop development, standard Java deployment, open source (Windows/Linux/MacOS). It has been acquired by VMWARE and now offers community and professional versions of the product.

Web2py is a RAD framework for web-based database driven applications with key features including in-browser coding support, admin/design interface, DAL (database abstraction layer), and translation support.

WebDev

Wolf Frameworks is a 100% AJAX, XML & .NET based Platform for designing and delivering cross platform web applications using a browser.

Yii Framework Yii is a high-performance PHP framework best for developing Web 2.0 applications.

Zend Framework is an open source, object-oriented web application framework licensed under the New BSD License.

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