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# Etanova Enterprise Solutions

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<http://www.etanova.com/technologies/server-side-development>

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## .NET Framework

Development efforts are maximized using the .NET framework, which offers optimal interoperability and communication between related sub technologies. The diverse features of this framework include a consistent programming model, strong security and options for using various coding and architectural methodologies to perform any given task.

### C# and Visual Basic Programming

Develop .NET applications with C# or VB.NET. Use VB.NET for a simpler syntax that supports many legacy VB functions and access to several unique language constructs. Use C# for a traditional C-like syntax and gain additional functionality including pointer arithmetic that may improve performance in some specialized situations.

### ASP.NET 5.0

The ASP.NET 5.0 Framework has been built from the ground up to be cross platform compatible for Linux and Mac OS X. It consists of modular components with minimal overhead. Moreover it has an optional Core CLR (cloud optimized runtime) that offers the flexibility to include only features required by an application, included as NuGet packages.

### Windows Communication Foundation

Use WCF as a secure method for processing transactions and exchanging data in real time. The WCF Framework can be used to build service oriented applications through asynchronous messages between endpoint nodes. This is useful for creating a robust service-oriented architecture (SOA). Multiple message patterns are also possible, such as a duplex exchange pattern where two nodes establish a persistent synchronous connection.

### Windows Presentation Foundation

Build client side graphical user interfaces (GUI) with WPF by creating intuitive interfaces for front end users. The WPF Framework has a toolbox of widgets already familiar to most users. The vector graphics system in WPF uses hardware accelerated for optimum GUI visualization and speed. Reusable templates assist the creation of interfaces by saving time when creating new layouts. Bind WPF controls to WCF data services for an effective combination of both technologies.

## JAVA

Create powerful and platform-independent web applications built on JAVA frameworks, for software that can run on all modern operating systems. JAVA is an object-oriented, secure, distributed and robust framework which can be used to develop nearly all software related projects.

## JavaServer Faces Framework

The JSF Framework boasts a clean separation between presentation and behaviour in web applications. It is highly extensible and offers custom tag libraries. By design, the JSF allows the creation of reusable components, many of which are available as open source from Apache, Oracle, Infragistics, etc. JSF has all the advantages of an MVC framework with an added component architecture to build the view.

## Spring MVC Framework

The Spring MVC framework offers a powerful framework with the flexibility of opting in to many of its optional features. The framework is entirely based on interfaces and most of its MVC components are configurable by using a custom interface. Spring provides a clear division between views, controllers, and JavaBean modules. Moreover it is compatible with view technologies other than JSP, such as XSLT or Velocity.

## Google Web Toolkit

The Google Web Toolkit (GWT) is a Rich Internet Application (RIA) Framework that Google itself uses on many of its web pages or web applications. It comes with a collection of widgets which can be easily customized and extended to handle particular use cases or to provide application specific functionality. Use XML syntax for creating interface controls and the JAVA language for implementing functionality.

## Apache Struts2 Framework

The Struts2 web application framework has a sophisticated controller architecture, a highly reusable templating system and a solid MVC pattern. The framework also includes a robust and extensible data validation system which dynamically generates code for client and server nodes based on a configuration file. Struts also implements Action classes to uniquely respond to and validate client node HTTP requests.

## Grails Framework

The Grails framework is ideal for rapid project development in small to medium sized projects. Use the Groovy syntax for more productivity in development. Integrate Grails seamlessly into other Java enterprise applications, as they can be extended without compromising the projects. Grails is also built on top of Spring MVC and may integrate Spring components.

## PHP

Build websites and web applications using PHP, the most popular programming language for website backend development. Extend the functionality of PHP with modern frameworks which will implement industry accepted design patterns into web applications. PHP web applications are lightweight, easily portable and cross-platform compatible. Moreover, there are many other open source applications, libraries, frameworks, content management systems, etc. that



can easily integrate into existing PHP projects.

### Laravel Framework

Develop projects using the most highly voted PHP framework to date. Laravel is built on top of Symphony components, and has dependency management powered by Composer. It boasts many great features including URL Routing, Blade Templating, MVC Architecture, Memcache Support, Authentication, Localization etc. Laravel provides features common to most enterprise PHP web applications to allow the rapid application of projects without reinventing the wheel.

### Yii Framework

For projects requiring extremely optimized performance, Yii is the ideal solution. The framework offers a wide set of advanced features including: AJAX-enabled widgets, internalization and localization, skinning and theming, web services, XSS / CSRF security, form validation, etc. Yii is also a very intuitive framework that minimizes the complexity of project software development.

### Drupal CMS

Develop small to medium sized projects in Drupal, an enterprise content management system offering advanced features for creating dynamic web sites. Drupal has simple management of users, accounts, groups and permissions. The CMS also supports many content types including videos, polls, text, blogs, podcasts, statistics, etc. Furthermore it has extensive API support for several external services common to web applications.

### Wordpress CMS

Create simple websites or blogs with Wordpress, the world's most popular content management system. The CMS has thousands of plugins to support many common features in modern websites. There are also thousands of graphic templates available that can change a website's interface. Wordpress has a useful dashboard in which website moderators can make changes to the website without technical knowledge of programming or code.

## Python

Python is a fully featured dynamic typed language that simplifies the development of software. It is an extremely robust and efficient programming language used for many enterprise level projects. Python boasts a massive selection of open source modules that can be imported into applications to gain instant functionality.

### Django Framework

Develop with the powerful Django Python Framework for small to enterprise level web applications. Django includes a robust template system, a web portal accessible admin interface, and complete development environment. The framework also provides a unified Data

Access Layer (DAL) and a strong Object-Relational-Mapping (ORM) system which assist in data communication between a web application and a database server.

### Web2py Framework

Use the Web2Py framework's unique approach to web development to better focus efforts on coding software rather than setting up and managing boilerplate code. The framework offers a powerful web-based Integrated Development Environment (IDE) that can be used to manage web applications through a web browser. Moreover the framework includes a Scaffolding apps based on Bootstrap for useful client side demo functionality.