

# Application Development

Deeply rooted in EnterpriseWorx lies our Software Engineering services. We are primarily a Microsoft .Net development house specialising in Custom Application Development, Systems Integration and Business Process Management. Our team consists of highly skilled software professionals who are able to develop high quality solutions in a reasonable time period. We primarily take a controlled agile approach to software development which ensures expectations are maintained throughout the project.

## Custom Software Development

There are many reasons why an off the shelf product might not meet the needs of the organisation making more financial or strategic sense to undertake a custom software development project.

Your organisation may have encountered one of the following scenarios:

- An off the shelf product that would meet your needs does not exist;
- The customisations desired on a bought software platform would require more time, and be more costly, than developing a custom software package;
- Developing a custom solution would enable a significant competitive advantage over competitors;
- Not enough resources exist, or resources are too expensive, for the available commercial software packages.

EnterpriseWorx staff have a wealth of experience developing custom applications in the retail, marketing, insurance, banking and mobile phone industries.

We are able to provide advice and guidance on the entire software development lifecycle, including analysis and design, implementation, testing and deployment, and support. This includes implementing changes and additional features after initial deployment as and when they are needed.

**Examples of applications our specialists have developed include, but are not limited to, the following:**

- **Web Content Management** solutions, including customer profiling and bulk email and SMS marketing.
- **Intranet Website**, including the following features: a workflow system, leave requests, performance reviews, HR functionality, an opinion poll, a discussion forum, and a for sale board.
- **Insurance Premium Calculator**
- **Insurance Quotation Engine**
- **A BPM Engine**, automating several business processes in the banking industry.
- **An International Payment Engine** for a major bank, integrating several in house systems.
- **A Web 2.0 Application** for personal photo and video management for a major telecoms company.
- **A POS System** for the retail industry including several modules.
- **A Timesheet Application.**
- **Web Service Development** allowing several legacy applications to be integrated using modern web service standards.

## Front End Development

The future of web applications is to provide more responsive, interactive experiences to customers improving usability and customer satisfaction.

New technologies and frameworks such as Node.js, AngularJS (using restful web services) and JWT (JSON Web Tokens) have emerged as powerful technologies enabling developers to efficiently implement single page applications (SPA's) for both enterprise and customer facing applications.

With the advances in web browsers this allows applications to deliver rich functionality which used to be reserved for desktop applications, providing increased performance through caching and more capable offline features.

Applications developed using this stack can also be packaged and shipped as both desktop and mobile applications without the need to develop native applications for each platform, greatly reducing development and maintenance costs and providing a uniform user experience across all platforms.

EnterpriseWorx is at the forefront of adopting the latest paradigms in web development and have implemented a number of projects using this exciting technology stack.



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# Business Process Automation

Business Process Automation involves managing information, data and processes to reduce costs, resources and investment, while automating key processes.

The EnterpriseWorx process uses software applications to automate routine business tasks through initiation, execution and completion, while achieving workflow efficiency across enterprises and within departments. This provides data on which tasks take the longest, whether SLAs are being honoured, etc., so that businesses can focus on streamlining, leading to increased customer satisfaction and efficiency.

*Clients in retail, insurance, banking and mobile communications leverage EnterpriseWorx' wealth of experience in developing custom applications.*

*We undertake the whole software development lifecycle: analysis and design, implementation, testing, deployment and support.*

*We use an agile methodology that ensures development is carried out in controlled sprints or stages. This allows us to incorporate changes and additional features as they are needed, deliver maximum value throughout the development process, and minimise risk.*

# Application Integration

During the Build vs Buy analysis, you may have decided that an off the shelf product will adequately meet the needs of your business. Chances are however, that the newly purchased software will need to be integrated with various other software applications in the organisation. **Enterpriseworx has extensive experience with integration platforms built on standards such as JMS (Java messaging), web services, Java EE and REST.**

Should your unique situation call for it, we would also be able to build custom wrappers around legacy and proprietary systems allowing easier integration between them.

True to our pragmatic approach, we will evaluate the integration requirements and the complexity of the enterprise application landscape enabling us to offer expert advice as to whether point to point integration will be sufficient, or a SOA implementation would be advisable.

**Integration between software components allows maximum functionality and return on existing systems and reduces manual processes needed to keep systems in sync.**

# Development Methodology

Enterpriseworx takes a pragmatic approach to software development, this means we care about our craft. We value software quality, client interaction and designing solutions that meet the client's needs, while keeping complexity to a minimum.

Enterpriseworx uses agile software development methodologies such as scrum to manage the process.

This allows customers to have more visibility into the software development process and allows potential risks to be identified and corrected earlier on.

We use JIRA as a tool to plan development iterations and new features as well as to change requests and track project progress effectively, allowing us to make better estimates and provide realistic timelines.

# Technology Platforms

At EnterpriseWorx we are technologists at heart and are driven to keep abreast of the latest technologies in software development, evaluating the latest platforms and frameworks to benefit our customers by using industry standard development practices and patterns to reduce time and risk on projects.

The two development platforms we specialise in are the following:

**Java EE** – The Java platform has a multitude of mature frameworks which allow us to concentrate our efforts on implementing business logic specific to your requirement.

We have extensive experience building enterprise solutions in the retail, banking and insurance industries using enterprise Java platforms such as JBoss, Websphere, MQ and Weblogic including frameworks such as Hibernate, Spring, Spring MVC, Spring Integration and JSF.

We believe in using best of breed commercial and open source frameworks depending on client needs and budgets.

**Microsoft .NET** – EnterpriseWorx is a certified Microsoft partner and has experience developing .NET thick client applications for Windows as well as middleware services and web applications.

**.NET is a Microsoft software framework that runs primarily on Microsoft Windows. It includes a large library and allows each language to use code written in other languages across several programming languages. Part of the .NET initiative is C#, a simple, modern, general-purpose, object-oriented programming language.**