

# DEVELOPMENT LABS



[www.bulwarks.com](http://www.bulwarks.com)

## ➤ Vision

"Set the constant innovation as our key for achieving the ultimate goal of success and emerge as a global company by providing the superior quality services and solutions."

## ➤ Mission

"To meet customer requirements to augment their business & professional development by providing them the best of IT solutions and to help them unleash their inherent latent potential."

## ■ About Bulwark Systems Development Lab

Bulwark Systems - a niche IT security player has achieved a major milestone successfully by developing ground breaking multi-tiered perimeter security software solution, SecuaNET SentinelXS for midsize companies & corporate. In fact the entire SecuraNET product suit is accepted and appreciated by the customers of different domains all over.

In the global business arena, the world has shrunk into a small platform to deliver the market requisites in no time. The explosive growth and mind-boggling rapid pace of changes in the technology has compelled the business world to integrate for the latest technology amends. The changing face of technology has rendered a different dimension to the vision of management gurus of the business world. Amalgamation of new concepts and techniques with business has become an advanced mantra for the business realm.

Bulwark Systems is extending the limits from product base company to Development Labs for sharing its expertise of software development. We have developed and provided highly scalable, secure and stable software system across a wide range of vertical that include some of the following,

- Healthcare Centers
- Education Institutes
- Manufacturing Companies
- Government Organizations
- Shipping Industries
- Hospitality Industries

through our Development Labs. The solutions to these customers of varied domain have proven to be profit making for them - world over.

We @ Bulwark Systems are a group of highly motivated developers ready to address your software development and services requirements through our Development Labs. We have a track record of developing highly scalable, secure and stable system and application software that have proven to bring profit to organizations the world over.

Our dedicated team develops and delivers highly scalable software with focus on web based technologies. With the clear focus we have been developing and delivering browser based systems that can be used as Intranet, Extranet or Internet applications.

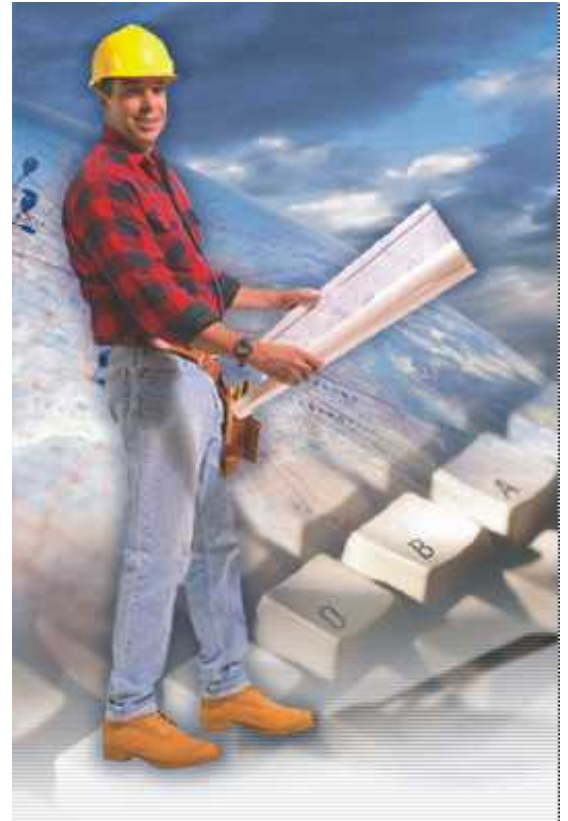


## ■ Project Categories

As a development lab our focus has been IP/Internet technologies that help our customers to serve and stabilize their business at the same time earn profit from it.

We categorize the software development projects broadly in 6 major areas. These areas are essentially the project types handled by respective programming teams.

- 1. Concept Development** Projects that are initiated to explore some new business Concept or application of some new technology,
- 2. New Application Development** Projects that are undertaken as a consequence of a specific customer request.
- 3. Application Enhancement** Projects that occur when existing software undergoes major modifications to function, performance or interfaces that are observable by the End-user.
- 4. Application Maintenance** Projects that correct, adapt, or extend existing software in ways that May not be immediately obvious to the end user.
- 5. Reengineering** Projects that are undertaken With the intent of rebuilding an existing (legacy) system in whole or in part.
- 6. Web Application Development** Projects that are undertaken when web sites and related internet-based applications must be developed.



Although each of the projects types differs in subtle and profound ways, all can be approached using a consistent software engineering framework.

Business Partner



We are Global  
Business Partners of  
HP Development and  
Solutions Partner  
Program.



## ■ Our Success Stories.....

### Development of SecuraNET Product Suite

**SecuraNET Sentinel XS Complete Perimeter Security Solution**  
**SecuraNET Communication Server Corporate Email Server**  
**SecuraNET Intranet Application Server Intranet Ready Server**  
**SecuraNET Business Server Domain and Workgroup Server**

### Application Software Development

We have developed and deployed ERP solutions like Healthcare ERP for Hospitals, Institute Management Systems, Online Payroll Management Systems, Golf and Club management systems.

### Details - SecuraNET Product Suite

SecuraNET product family is a set of highly sophisticated yet easy to use, secure appliance range software that make your corporate network stable, secure and efficient, giving the extra edge to businesses.

These products are designed, engineered and developed on SecuraNET OS, a hardened operating system that ensures the stability and security to the systems. The core focus of this hardened OS is security.

**Development Environment:** Linux Core Kernel 2.4 /2.6, PHP, CGI, Perl, C/C++, Shell Script, MySQL, LDAP.

#### 1. SecuraNET Sentinel XS

SecuraNET SentinelXS, our flagship product is a multi-tiered perimeter security system that protects assets and business transactions by ensuring fast, secure connections with the Internet and networks.



#### Features @ Glance

- Secure with Active Firewall powered by Attack Prevention System
- Protect from viruses, Worms, Trojan ,Backdoor's, Hackers , Attacks
- Manage bandwidth to increase efficiency and productivity
- Accelerate internet access with Web Proxy caching System
- Authenticate all users with with strong authentication parameters
- Integrate remote branch offices with 128bit encrypted IPSEC VPN tunnels
- Visualize all activities with detailed report logs
- Ensure high availability with fault tolerant automatic failover with Multi WAN support

#### 2. SecuraNET Communication Server

SecuraNET communication server system is designed as an out-of-the box communications and collaboration system. It is based on our SecuraNET OS hardened operating system. Here there is no requirement to purchase, install or have expertise in operating systems. Communications Server is a Mailing System that is administered through a web browser.



It meets the requirements for small and large organizations with easy deployment, administration, support, reliability, stability and scalability. Messages can be sent and received thru email clients like Microsoft Outlook, Outlook Express and we ship it along with our SecuraNET Virtual Office a web interface to access and send emails, store files (even remotely), manage schedules, notes, news, company portal, address book. All this can be configured to be available to the user even remotely from outside the network with proper authentication. This centralized solution can benefit even organizations with branch offices at remote locations. This solution supports both internal and external emails.

### 3. SecuraNET Intranet Application Server

Business processes and automization is an essential computing area. We provide an out-of-the-box stable and scalable system for intranet applications that use a 3-tier approach (application server, database server and web server). This system is capable to host intranet applications (especially browser based) that have mission critical usage and large transactions.

Features @ Glance

- Paperless Office Initiative
- Online Payroll System
- Office Management Suite
- Virus Protection
- Custom Web Application (Extra Request)

With our sister concern BackOffice Technologies we develop and deploy various ERP solutions like Healthcare ERP for Hospitals, College and School Management Systems, Online Payroll Management Systems, Golf and Club management systems that are built on the solid foundations of SecuraNET Application Server.

### 4. SecuraNET Business Server

We have designed and engineered an out-of-the-box network server solution that is secure, powerful and reliable.

Our Server technology provides a platform for networked computers (LAN as well as WAN). The core advantages of this server technology include:

- Immediate deployment (Pre-configured Hardware / Software Solutions).
- Complete Secure Solutions (Email Server, Intranet Server, Firewall, IDS, Proxy etc).
- Easy to Administer - Single Web Browser Interface for all solutions.
- Domain Users, Groups with user quota system
- DHCP, DNS, Domain Controller with advanced domain and workgroup Management.
- User Intranet improving user efficiency and collaborative working in the Organization.
- Supports all user Operating Systems (Windows, Unix, Linux, etc)
- No change at the user end.
- Replaces Microsoft Windows Server and Novell Netware Server.
- Remotely configured and maintained-especially good for networking Geographically different locations.
- Low Total Cost of Ownership (TCO).



### Details - Application Software Development

SecuraMED Hospital Management system



SecuraMED is an ERP for mid size to large hospitals. It Encompasses not only automation & integration of various facets of Medicare activities of the Hospitals but it also links and integrates devices for different medical tests in different wards with the ERP application. It is useful for nurses, doctors; staff for proactive notions along with keeping track of their regular activities Above all it is a good analytical / informative system for management / decision makers of the hospital.

SecuraMED supports various activities of different segment of patients from regular walk-in / emergency to corporate level patients.

**Development Environment:** JSP, Tomcat, Oracle

The important modules of SecuraMED are

In Patient Department Out Patient Department Operation Theatre (OT) Inventory Management Administration & security Laboratory Management Housekeeping Finance and Billing Blood Bank Emergency	Physiotherapy SecuraMEDICOM Waste Management Radiology Training Non Invasive Cardiology Medical Social Work Daily Prescription Video Conference
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### ■ Software Development Methodology

Bulwark Systems follows a full Software Development Life Cycle (SDLC) for software development. We have standardized and refined software development methodology provides a flexible framework for software development projects that can be used to deliver software on time, in budget and with high quality to meet customer expectations.

This methodology is applied to each software development project from initial inception to successful delivery.

The Development process followed includes the following Life Cycle phases

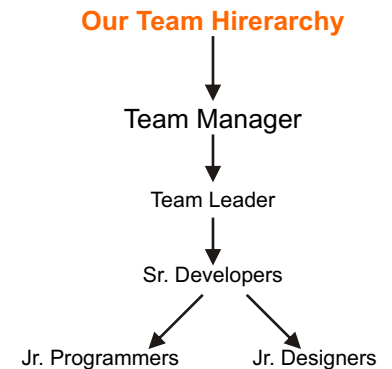




## ■ Our Team

Our team consists of well-qualified engineers and computer professionals who bring with them several years of business and professional experience. It includes dedicated problem solvers who can handle not only software development services, but also other IT works, such as project analysis, design, documenting, consulting, testing, and maintenance activities. Yet we believe that the most important thing is not about what we do, but how we do it.

This type of organizing model offers us a better Perspective over the things we have to do, and helps us make a clear-cut distinction between the various activities involved in the software development process.



### Skill Set

We are a technology neutral solution provider, being able to create and integrate solutions across a broad range of technologies. For the very purpose we have developed expertise on various platforms and have setup development / deployment beds in all fields of software development.

**Development Environment:** .NET Framework/JSP/PHP, Tomcat/JBoss, Oracle/MySQL/MSSQL, Visual Basic, Lotus Notes.

**Other Development Skill Sets:** Perl, C/C++, J2EE

### Object Oriented Model

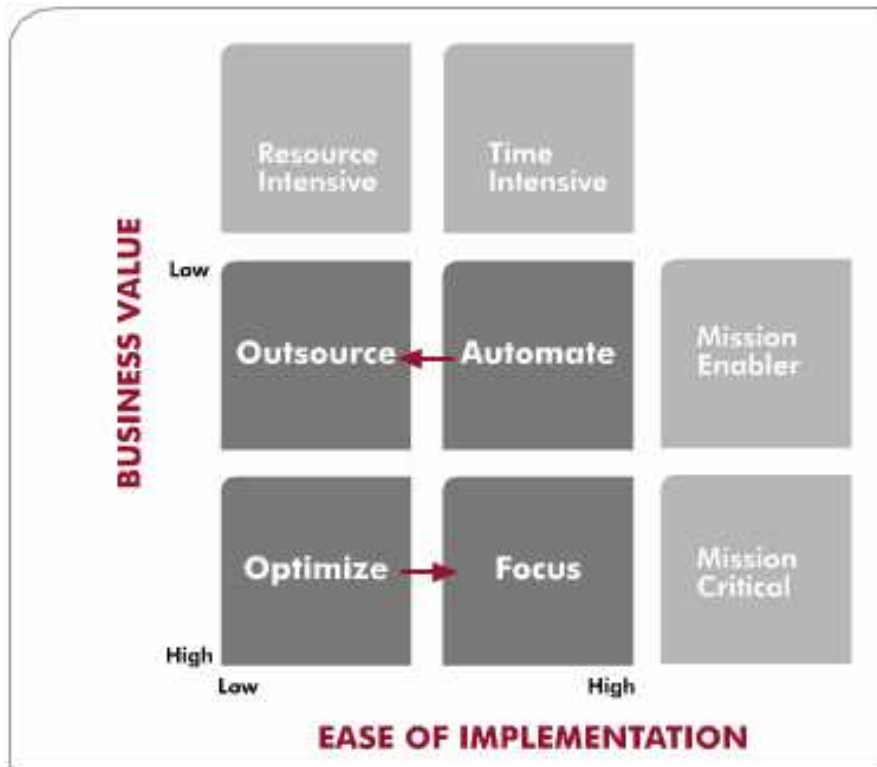
Each Object Oriented Development Project will go through all phases of the Software Development Life Cycle (SDLC) defined procedures. This methodology is used to define the activities and work products for each phase and in projects where the development tasks arrive as work packets. The phases of execution, the associated work products, verification and validation criteria for each of the relevant phases shall be at par with this methodology.

In the Project lifecycle, we use tools, which facilitate or effectively document the following activities: -

- Project Management and Planning (PMP)
- Configuration Management (CM) & Version Controlling
- System Architecture Design
- Automated Testing
- Bug Management

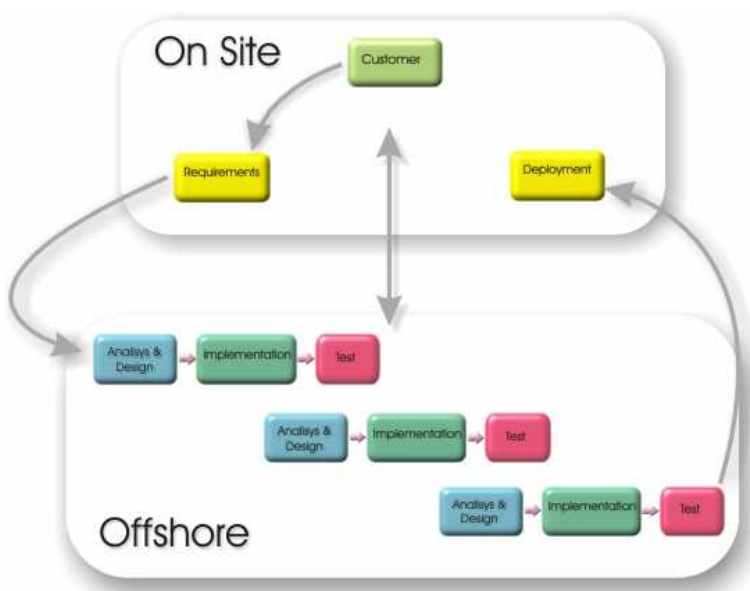


DEVELOPMENT LAB - Offshore Development Services



The steps for the best practice in Offshore Software Development are:

- Implement a Transparent Model that is customer-centric
- Conduct a proper survey to shortlist the best suitable vendor for the project
- Finalize the contract that explicitly defines the Financial terms and states Service Level Agreement
- Fragment the Software Lifecycle in phases- from Inception to Delivery
- Develop and deploy the accomplished tasks in a close collaboration with the Offshore Client.



**Engagement Models:**

- Fixed Cost Projects
- Time & Material based
- Staff Augmentation



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