Enterprise Application Development
Who We Are

ScienceSoft is a provider of custom enterprise applications and IT consulting services with HQ in McKinney, TX

- **32** years in IT business
- **700** employees
- **3,000** implemented projects

Certified quality management system

Security of the customers' data
Our Customers

75% of our revenue comes from 1+ year-long customers
Developers with the average experience of **7-8 years** on complex software projects

- We deeply understand how to work in internationally distributed teams
- We go beyond standard development frameworks and can develop custom ones
- We quickly learn the ins and outs of the project
- We speak the same business language as the Customer

**SCIENCESOFT’S DEVELOPMENT TEAM**
Full-cycle Services

1. Business analysis
2. UI design
3. Architecture design
4. Application development
5. Maintenance

Quality assurance
How We Work

Customer

Business analysts

UX/UI designers

Problem

QA specialists

Solution

Software developers

Cross-Functional Collaboration
During **requirements engineering**, we focus on the following activities:

- **Elicitation**: we capture all project requirements: high-level and detailed, functional and non-functional
- **Analysis**: we prioritize and model requirements (use-case diagrams, business-process models, data flows, etc.)
- **Verification**: we ensure that system requirements are complete, correct, consistent and clear
- **Specification**: we document the final scope of requirements that meet business, project, and strategic goals
Our approach to UI design rests on 3 pillars:

1. Gather, analyze and interpret user information to comply with business needs and user expectations.
2. Plan every user interaction with the software to make it convenient and easy to follow.
3. Design with brand consistency in mind and bring fresh ideas of visually unique solutions.
When developing software architecture, we use a **modular approach** that considers a complex application as a composition of **independently developed components**. This ensures:

- Higher reliability
- Shorter delivery time
- Better maintainability
- Better expandability
Traditional Architecture Design

- **PERSISTENCE LAYER**
  - Business workflows
  - Business components
  - Business entities

- **BUSINESS LAYER**
  - UI components
  - Presentation logic components

- **PRESENTATION LAYER**
  - Access control

- **MULTIPLE EXTERNAL SYSTEMS**
  - Access control

- **DATA SOURCES**

- **COMMUNICATION**
  - CROSS-CUTTING
    - Security
    - Operational Management
    - Logging
Microservices Architecture Design

Users -> Presentation services -> Service #1 -> Data Source
Users -> Presentation services -> Service #2 -> Data Source
Users -> Presentation services -> Service #3 -> Data Source
Users -> Presentation services -> Service #4 -> Data Source
Users -> Presentation services -> Service #5 -> Data Source
Microservices Architecture Example

- **Business Boundary Context A (Microservice)**
  - Full REST API
  - Rich Web Frontend
  - Long Running Jobs
  - Business Handlers
  - Distributed cache

- **Business Boundary Context B (Microservice)**
  - Full REST API
  - Rich Web Frontend
  - Long Running Jobs
  - Business Handlers
  - Distributed cache

- **Business Boundary Context C (Microservice)**
  - Full REST API
  - Rich Web Frontend
  - Long Running Jobs
  - Business Handlers
  - Distributed cache

- **DATACLASS\_LAYER**
  - SQL
  - NoSQL
  - Elastic Search

- **EVENTS LAYER**
  - Logging Microservice
  - Email Microservice
  - Scheduler Microservice
  - Job Microservice
  - Security Microservice
  - Change Tracking Microservice

- **INFRASTRUCTURE LAYER**
  - Enterprise service bus
Application Development

Our development services include:

- Full-cycle application development
- Development of certain application modules, e.g. a BI tool
Our Development Approach

To reduce your time-to-market, we combine iterative development with lean thinking:

Fast software delivery

Continuous improvement

Final release
Challenges We Solve

In developing an enterprise software application, we focus on:

**Reliability and scalability**
To handle large data and traffic volumes, or solve complex tasks quickly

**Information security**
Multilayer protection from intruders and unauthorized access prevention

**Configuration and parameterization**
High level of flexibility and reactivity to changing demands

**Maintainability**
To ensure simple, fast and effective solution modifications in the future
For 32 years, ScienceSoft has been providing end-to-end testing services:

- **Performance testing**
- **Functional testing**
- **Localization testing**
- **Automated testing**
- **Manual testing**

**Test documentation** (test plans, test cases, etc.) to give the Customer a clear view of the application performance in different cases and simplify its modification in the future.
Our goal is to detect and respond to a problem *before* end users even know it exists.
Long-term Maintenance

- Change request processing
- Bug fixing
- 24/7 Help Desk services

Full-service packages for 1, 5 or 10 years, with an option to be prolonged when the service period expires.
What You Get

With every software development project, ScienceSoft’s Customer gets a complete set of deliverables, including:

- The solution tailored to specific business needs
- Full test documentation
- Well-documented source code
- Long-term maintenance
- 12-month warranty
Success Story

Assisted Living Management Software

Customer

US assisted living organizations

Solution

A complex solution consisting of modules for marketing, care team coordination, medication administration, patient health monitoring, risk management, billing and document management

Tools & Technologies

Ext JS, Sass, Java, Spring, Hibernate, Apache Maven, Apache Tomcat, MS SQL Server
Success Story

Mobile Number Portability System

Customer

European telecom provider with 1.4 mln subscribers

Solution

An automatic Mobile Number Portability system that enables users to easily switch service providers without the need to change their number

Tools & Technologies

Java, Perl, Tomcat, log4j, Oracle, JUnit, Spring, Hibernate, Mason
Success Story

The World’s Largest PLM Platform

Customer

A global leader in collaborative solutions for the private label and branded goods industry

Solution

The product lifecycle management solution powering 32 large retailers and 12,000 manufacturers in 110 countries, which drives the development of products with $300+ bn in annual sales

Tools & Technologies

.NET, ASP.NET (WebForms, MVC), Classic ASP, NHibernate, ADO.NET; MicroStrategy, MS SQL Server, T-SQL
Success Story

System for Well-log Data Tracking

Customer

European provider of IT solutions for oil and gas industry

Solution

The solution for automating well development process, which allows extracting, integrating, accessing well data and reporting it to the regulatory authorities

Tools & Technologies

Java, Spring, JUnit, Mockito, Jboss, Red Hat, Ext JS, PostgreSQL
Trade Marketing Planning System

Customer

An international FMCG corporation with 82,000 employees and products sold in over 180 markets

Solution

The system consisting of 2 interconnected applications (a field planning tool and an integrated market platform) allows to create trade marketing plans and monitor them in real time in more than 60 countries

Tools & Technologies

ASP.NET MVC, ASP.NET Web API, WCF, Entity Framework, MS SQL Server; HTML, CSS, jQuery, Backbone.js, Underscore.js, RequireJS, iOS
Success Story

Cancer Drug & TPN Order and Manufacturing Software

Customer

A multinational pharmaceutical company with operations in over 100 countries and $15+ bn revenue

Solution

A centralized solution to cover generic and non-generic short-living chemotherapeutic drugs and TPN production, stock control, client information and financial transactions (direct sales)

Tools & Technologies

.NET, ADO.NET, ASP.NET, AJAX, VB.NET, JavaScript, Infragistics, Citrix server API, Crystal Reports
Success Story

Big Data Analytics Revealing Media Consumption Patterns

Customer

A leading market research company that analyzes media consumption patterns

Solution

Migration to a new analytical system that is 100 times faster compared to the old one and can process 1,000 different data formats to provide insights into media consumption patterns in 10+ countries

Tools & Technologies

Apache Hadoop, Apache Hive, Apache Spark, Python, Scala, SQL, Amazon Web Services, Microsoft Azure, .NET
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