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# INFOSTROY

Information Systems Technologies Research Outsourcing for You

## Public Sector

### *Areas of Expertise:*

*Manufacture, Business  
& E-Commerce*

In the modern world a lot of attention is paid to creating effective solutions for solving different tasks in public and government sectors. This allows state organizations creating clear and cost effective solutions for their work and communication with citizens. Year upon year the amount of different software systems implemented in public sector grows rapidly. In most cases, when developing such systems, the biggest challenge consists in very strict requirements for effective budget use and exact delivery schedule. From side of technologies it is realized in most cases as distributed information system providing abilities for information management and access. During the years of our work for this sector of economics we have collected an extensive experience to deliver cost effective solutions for different organizations in time.



**Information Technologies  
In Public Sector**

**Contact:**  
[info@infostroy-software.com](mailto:info@infostroy-software.com)  
[www.infostroy-software.com](http://www.infostroy-software.com)

## Projects examples:

- Human Resource Management System for Public organization
- Projects Monitoring System
- Monitoring System for Public Service for Citizens

### Human Resource Management System for Public organization

This system was developed for human resources management in a large organization with 100's of employees. The system provides the ability to create organization structure and assign employees for each department.

The system was developed on C# as a module for DNN and uses MS SQL Server database. The application can generate PDF documents through ABCPdf component. The application is developed with the use of AJAX technologies and Telerik components.

### Projects monitoring system

In this project we have developed a monitoring system able to manage a "Project process" and relate subProcess and documentation. Application supports Italian, English and French languages; moreover new languages can be added through special localization system. The system is able to manage those monitoring processes, relate data and perform search on them.

The application has import/export feature in order to share data with third party's application. It has import feature from Excel files via WebServices.

The main process to monitor is called "Program", and the scope of application is to monitor the "Program". The "Program" to manage is just one, and it is divided into N "Project", and each project is composed from some steps to execute as a static workflow. The main scope of application is to monitor resources, i.e. the main task is very simple:

- DataEntry of resources information
- Monitoring (in terms of "approval/refuse/ suspend/etc) of the projects

The Steps of WorkFlow instead are not simple steps to execute, but are real "mini application". For each step there will be a set of possible actions to execute, so it is like each step to supply a specific menu of N

actions that can be executed from users.

The system provides effective role management subsystem where 10 possible user-roles are available with appropriate rights managed by administrator.

The application is developed as a Java based Web Application MySQL database. The application can run under XAMPP or standard APACHE-TOMCAT and MySQL is managed via phpMyAdmin.

### Monitoring system for Public service for citizens

The object of this project is to create a special system that will help citizens who want to open own business.

The application makes different actions connected with own business start-up much easier and accessible through internet. In this sense the application is pretty simple because it allows end users to track step-by-step the process of their business creation.

The main object of the application is the "Procedures management". The procedures are objects which can be configured and after this operation, the user involved can create an instance of it. An instance of procedure is, briefly, a request of a service. After this user can monitor state of their business creation.

The application is developed as a Java based Web Application with data Layer based on MySQL. The application can run under XAMPP or standard APACHE-TOMCAT and MySQL and generate PDF/A documents.

### Technologies

IDE	NetBeans, MS Visual Studio 2005/2008
Programming Languages	C#, ASP.NET, JavaScript, XML, HTML, DHTML, JSP, Java (Java SE6 and Java EE5)
Design	UML, MS Visio
Libraries	JNI, Swing, Hibernate, Telerik, ComponentOne, DevExpress, EJB, JAXB, RMI, JSSE, JDBC, AXIS
Web Platforms	DotNetNuke
Servers	IIS, Tomcat 6
Databases	MS SQL Server®, MySQL®
Operating Systems	Windows OS family, Linux OS family