

Specialization and competence of company experts in software development

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SPECIALIZATION

Principal specialization of the company is outsourced software development, Enterprise level applications, Java-technologies stack based:

- › multifunctional web-applications (internet and intranet solutions);
- › application integration solutions;
- › portal solutions and content management system based solutions;
- › service-oriented architecture and ESB based solutions;
- › high load distributed failover solutions;
- › secure data exchange process arrangement;
- › business process automation;
- › data warehouse development;
- › Big Data;
- › solution based on parallel programming and computing platform CUDA;
- › social network applications;
- › socket and media server based applications.

While solving tasks, our specialists use both open source programs and proprietary software, depending on the software already used in the client company for which the software is developed.

The quality of solutions provided by Ardecs company is determined by the great competence of developers and controlled by test specialists, which conduct various kinds of tests of developed systems.

2 COMPETENCE

Multifunctional web-applications

(internet and intranet solutions)

- › user interface development based on modern Web-frameworks and technologies (Java, JavaScript)
- › server business logic development based on modern frameworks and standards JEE/JSR
- › applications migration to run on various application servers
- › authorization and authentication with the use of different data sources, concerning: database, LDAP, different SSO implementations including authorization based on different services (gmail, yandex, twitter, fb, vk, etc.)
- › development of automated verification tests for user interface and server logic functionality

Application integration solutions

- › development of interaction with external systems methods with the use of SOAP- and REST- services or specialized API, provided by external systems data
- › systems integration using SOAP- and REST-services through interaction “point-to-point”
- › information integration using ESB capabilities
- › data exchange between information systems using message queues
- › data exchange between information systems using batch loading of data

Portal solutions and content management system based solutions

- › design and development of portal architecture
- › portlets development in java in accordance with the standards JSR-168 and JSR-286
- › portlets development in angular.js
- › web-solutions migration to portal platform
- › security policy development
- › source code finishing and update of an open source portal
- › portlets development using specialized API WebSphere Portal / Oracle Portal
- › integration from external systems: sites content, Lotus Domino, Oracle Internet Directory into data portal
- › replacement of search engine built in portal – implementation and use of OmniFind in IBM WebSphere Portal

3 COMPETENCE

Secure data exchange process arrangement

- › ensuring the confidentiality and information integrity control using programs CryptoPro
- › data exchange arrangement using TLS protocol

Interaction with IEIS

- › work with services, published on technological portals
- › registration of service in IEIS

Business process automation

- › analysis and business processes arrangement in a company
- › solutions development for Common Government Services Portal of Russian Federation
- › business processes development in JBoss jBPM jPDL, versions 3.* and 4.*, XPDL
- › business processes development in BPEL
- › architecture design and development of client applications for business processes tasks implementation
- › API development of business processes tasks from external systems management
- › design and development of methods for interaction with external systems in business processes tasks

Service-oriented architecture and ESB based solutions

- › migration of integration solutions from “point to point” implementation to ESB based solution
- › connector adapters development for ESB connecting

4 COMPETENCE

High load distributed failover solutions

- › ensuring failover, scale-out for layers of processing and data storage: cluster of application servers and clusters DBMS creating
- › creating of distributed file storages
- › arranging of automated load testing
- › monitoring facilities adjustment for controlling system operativity and availability

Big Data

- › storage and processing of semistructured data, and dynamic reports generation

Solution based on parallel programming and computing platform CUDA

- › large volumes of similar data processing, including work with images

Data warehouse development

- › design and development of SQL and NoSQL DBMS based file storage

Administration

- › installation and adjustment of Java-servers applications for different operation systems
- › installation and adjustment of portal platforms for various operating systems

Social network applications;

- › implementation of image applications for VK social network

Socket and media server based applications

- › installation and configuring socket- and media-servers, such as: SmartFoxServer PRO and Red5
- › building multi-user systems of online data exchange using Flash/Flex on their basis

EMPLOYED SOFTWARE PROGRAMS

Free software:

Servlet containers:

- › Apache Tomcat, Jetty;

Application servers:

- › JBoss AS, WildFly, GlassFish;

Portal platforms:

- › JBoss Portal, Gateln, Liferay;

Enterprise service buses:

- › JBoss ESB, JBoss Fuse, WSO2 ESB;

Relational (SQL) database management system:

- › MySQL, PostgreSQL, Derby;

NoSQL database management system:

- › MongoDB, Apache Hadoop;

Business Process Management (BPM) Software:

- › jBPM, Activity, WSO2 BPS;

Message Queuing technologies:

- › JBoss HornetQ, Apache ActiveMQ;

Proprietary software :

Application servers:

- › JBoss EAP; GlassFish, Oracle Application Server, Oracle Weblogic, IBM Web-Sphere AS;

Portal platforms:

- › IBM WebSphere Portal, Oracle Portal 10g, Weblogic Portal;

Enterprise service buses:

- › Oracle ESB, WebSphere Message Broker;

Relational (SQL) database management system:

- › Oracle Database, MS SQL Server;

Business Process Management (BPM) Software:

- › Oracle BPEL Process Manager;

Message Queuing technologies :

- › IBM WebSphere MQ, Oracle Advanced Queuing;

SOA:

- › Oracle SOA Suite

TECHNOLOGIES



At the stage of the design and analysis our experts choose technologies, optimally suitable to solving a task.

The specialists of the Ardecs company work with a great number of modern server and client-side technologies of application development:

- › JDBC
- › JPA / Hibernate
- › EJB / CDI
- › Spring
- › ADF
- › JSP / JSF
- › Wicket
- › Vaadin
- › GWT
- › jQuery
- › AngularJS
- › Node.js

OUR TEAM



Currently our team contains 12 experts in development :

2 Project management



8 Web-applications development



1 Tools development



1 Testing



Our team contains specialists experienced in project managing, including geographically distributed team management. Moreover, our employees have great skills in project and supporting documents writing, especially regulated by GOST standards of the Russian Federation. Finally, our experts have participated in scientific researches.



Thank you for your attention

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