



Development of BioPAT Collaborative Knowledge Repository (CKR)

Case study

Customer profile



AIMES Grid Services CIC is an industry leading commercial data centre service provider, based in the North West of England.

Need & Challenge

The company turned to Qulix Systems with the request to develop the BioPAT Collaborative Knowledge Repository (CKR) tool for the BioPAT project consortium.

Business objectives

Create a unified database - Collaborative Knowledge Repository (CKR) - to gather data about bioprocesses for therapeutic antibodies.

Project overview

The system is based on the use of the Process Analysis Technology (PAT) and developed as an Improvement of the Bioanalysis Tools program.

The BioPAT system uses complex internal logic and algorithms for data analysis and interpretation.

The developed application incorporates three modules:



The client also requested the high performance (real-time redrawing) of the graphical charts used for visual analysis of the trends on scientific data. For this purpose, specific ActiveX controls were developed (in .NET).

Result

Qulix delivered the BioPAT solution utilizing ASP.NET 3.5 as the base development technology. Libraries from Telerik (RAD controls) were used for GUI forms to provide an attractive look & feel (AJAX based).

Several ActiveX controls were also developed specifically for Chart Drawing functionality. The system was hosted on an IIS 6 application server with Oracle 10g as the RDBMS.

Tools and Technologies

- ASP.NET 3.5
- MS SQL Server 2005,
- IIS Application server
- C#, AJAX
- XML/XSL
- SOAP
- Telerik RAD controls
- ClickOnce technology
- JavaScript

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