



MAKE YOUR FUTURE CLEAR

.NET development

Crystal System has extensive expertise in employing .NET technologies for obtaining optimal results. Our team of certified programmers has excellent knowledge of all the features needed to produce state-of-the-art software.

Our team is constantly evolving as new persons are hired every month. The core of our .NET team consists of a set of five certified senior programmers.

Adrian Cioclei	70 229	Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition
	70 315	Developing Web Applications with Microsoft Visual C# .NET
Bogdan Patru	70 316	Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET
Sorin Ciurea	70 229	Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition
	70 316	Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET
George Tale	Brainbench	Microsoft ASP.NET Certification
	Brainbench	Oracle Forms 6
Radu Cernea	70 315	Developing Web Applications with Microsoft Visual C# .NET
	70 316	Developing and Implementing Windows-based Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET
	70 306	Developing and Implementing Windows-based Applications with Microsoft Visual Basic .NET and Microsoft Visual Studio .NET

Projects

NBDO Edipower SpA - Italia

Description:

Edipower SpA one of Italy's nationwide electricity companies, has been developing a project intended to enhance the management capabilities by using an NBDO (Nuova Banca Dati Operativa).

NBDO is an intranet website supporting simultaneous access from more than 200 users. A strong security has been created to ensure that each user can read and execute only the operations allocated to him.

Working side by side with IBM consultants Crystal System has successfully created and delivered the required Intranet web application.

Technologies:

- **ASP.NET 1.1 (C#)**
- **SQL Server Reporting Services**
- **SQL Server 2000**
- **HTML, CSS, XML, JavaScript**

Delivery:

The delivery consisted in all the codes developed for the company.

Main activities:

- **Developing web forms**
- **Developing business logic layer**
- **Creating complex reports using SQL Server reporting**
- **Administering SQL Server database**
- **Managing database synchronization (structure and data) across multiple environments (development, test, deployment)**
- **Forms authentication**

Duration: 12 months

Persons involved: Adrian Alexandru, Adrian Cioclei, Bogdan Patru, Sorin Ciurea

Problems / Features (if any):

- **Dates were saved in UTC format to ensure compatibility across different countries**
- **To keep track of the two changes that happened every year (switching from daylight saving time (DST) to non DST and back) we used a convention to make the distinction between two dates (if the current time was between the two hours in one of those two days we put 333 as fractions of a second).**



FactoryHR - Romania

Description:

FactoryHR is an application developed for assisting software services vendors by offering access employees' database to check if the company could offer consultancy for different IT areas and if there were any persons available.

Using a laptop/desktop with an Internet browser or a mobile device (mobile phone, palms, etc.) and using an username and password the person could see a list of all employees with all their competences, or even search them according to different criteria.

Technologies:

- **ASP.NET 1.1 (C#)**
- **MySQL 4.0 database server**
- **HTML, CSS, XML, JavaScript**

Delivery:

The delivery consisted in the actual website.

Main activities:

- **Developing web forms**
- **Developing business logic layer**
- **Administering MySQL 4.0 Server database**
- **Forms authentication (role based authorization)**
- **Creating a framework to be reused in other companies with related applications**

Duration: 5 weeks

Persons involved: Bogdan Patru, Lorena Tiu

Problems / Features (if any):

- **Given the fact that the database of the application can be changed we decided to use only SQL92 standard in all our queries and to introduce a new layer to work with back-end database. This way any change of database means changing two parameters in our configuration file**



AMS 4 Twin Hawks di Visintin Luigi e C. s.a.s. - Italia

Description:

AMS (Agency Management System) is a system designed to manage the activity of a personnel recruitment company for marketing/merchandising activities. The agency establishes relations with clients that require few persons, with sales points where the persons will present clients' products and with the collaborators interested in doing the activity of marketing/merchandising.

The application has few modules:

- **Nomenclatures** manages all data related to clients, sales points and collaborators
- **Events** allows managing of all the processes related to an event. An event represents a campaign (promotion) initiated by a client. This module allows creating the event, association with sales points and collaborators, tracking of activities and registering results for it and closing of the event
- **Accounting** manages all financial part of the system: the invoices for a client and the salary for the collaborators.
- **Reports** creates different reports for clients, sales points, collaborators and the agency.

Technologies:

- **ASP.NET 1.1 (C#)**
- **SQL Server 2000 database**
- **HTML, CSS, XML, JavaScript**
- **Crystal Reports 9**

Delivery:

The delivery will consist in the website. The CD will contain the source code of the website, the database creation scripts and an MSI file to install the website's code on the server. A user's manual will also be available.

Main activities:

- **Developing web forms**
- **Developing business logic layer**
- **Developing data access layer**
- **Administering SQL Server 2000 database**
- **Forms authentication (role based authorization)**
- **Creating a framework to be reused by all users during the project**

Duration: 01.06.2005 - still working

Persons involved: Bogdan Patru, Lorena Tiu, Radu Cernea

Problems / Features (if any):

- **All SQL queries must be tracked regarding the time needed for execution. The same happens with the page execution. The results are displayed as HTML comment at the end of the output generated by the web server. This allows us to see what queries take a lot of time to execute and to see also how much time is required for page execution. This way we can apply a tuning on our application to optimize server's output.**