



To succeed in business it is necessary to make others see things as you see them.

Microsoft
GOLD CERTIFIED
Partner

SOA and Business Process
Business Intelligence
Mobility Solutions
Custom Development Solutions

Biological Age Test - Integration with CardioCheck



Case Study

Client Profile

A device manufacturer in Netherlands providing cardiovascular device that monitors vascular health of the user by taking various measurements from the pulse in the finger. Especially helpful for people suffering from heart disease as the device checks the health of the main arteries by measuring their elasticity.

Business Need

The client wanted to widen the usage of “**CardioCheck**” device for the common people and thus wanted to develop an online interface (web-interface) for the device to help users get their biological age.

Solution

Team Gateway developed an application to provide online monitoring using the CardioClip and display cardiac data in the graphical format using GDI+ libraries. The developed application was integrated with the proprietary software component that analyzes the changes of the infrared light sent by CardioClip through the fingertip. External communication made possible using TCP/IP protocol to measure pulse wave and compare it with a database of multiple cardiovascular profiles. Gateway quickly and successfully developed following versions:

- **API Version:** This enables partners (like Medical portals) to provide an interface wherein device users can login to monitor vascular health. Each Partner has their own interface to access APIs. The server authenticates and logs every request coming from different clients.

- **iFrame Version:** It enables Partners to implement User Interface; Under this version, partners provide device related functionality to their users and enabling users to view real time device results in the waveform.

In addition, Gateway implemented features like Blogs to allow users CREATE their own section visible to other user community on the portal. Forums were created to allow users to be in touch through online Messaging & Discussion to share experience and knowledge.



Challenges

- Integration of the application with CardioCheck device and display data in graphical format on the application
- Communication with Windows Service and sending signals to start/stop the device

Case Study

Benefits

- Gateway's experience and know how in the development of web applications assisted client in rapid development of online application, thus enabling the client to widen the usage of the device faster.
- Creating competitive advantage for the client by combining the best of online and offline testing.
- Unique Installer packages for Partners which facilitates their consumers to download Installer from their websites.

Technology

- .NET Framework 2.0 (ASP.NET, C#)
- MS SQL Server 2005 Enterprise Edition
- IIS 6.0+, Firefox compatibility

Gateway TechnoLabs defines designs and delivers IT-enabled business solutions that help Global 2000 companies win in a flat world. These solutions focus on providing strategic differentiation and operational superiority to clients. Gateway creates these solutions for its clients by leveraging its domain and business expertise along with a complete range of services

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