

Do-It-Yourself Applications

Taking Advantage
of the DIY Web

Jelle Ferwerda,
President/CEO
LogicNets, Inc.

Agenda

- Background
- Current Changes
- What These Changes Mean for You
- What's Available
- Taking Advantage of the Tools
- LogicNets and Knowledge
- Who Is Using The Tools
- Case Studies
- Q&A

Background

- Creating any application or system used to require software programmers.
- With the ubiquity of computers in organizations worldwide, business users are willing to try to create their own solutions if given the tools to do it.

Current Changes

- The do-it-yourself (DIY) Web, or Web 2.0, is poised to completely change the way software applications are developed.
- Software available on the DIY Web allows non-programmers to create applications that fit their needs.
- These tools allow users to more quickly create and customize the applications they need for their organizations.

These Changes and You

- All of the DIY applications can help you be more productive, especially the knowledge-centric ones.
- As engineers you have the ability to think in a structured and methodical ways.
- DIY knowledge-centric systems help you map your knowledge into applications others can use.

The DIY Application Market

- The DIY software market includes tools from new web page publishing and management tools to general application development products.
- Small companies are making the first moves in the DIY market.
- This market contains users in small and large businesses as well as individual users with varied levels of technical expertise.

What's Available

- DIY tools from multiple companies allow users to create their own applications, including:
 - Web Pages
 - Collaboration Sites
 - Data-Centric Applications
 - Knowledge-Centric Applications

Web Page Development

- Multiple companies provide users tools to create professional, customizable websites.
 - Companies like SiteKreator and Homestead Technologies are focusing on small companies.
 - Domain name registrars and hosting companies like Network Solutions and GoDaddy.com offer website tools to customers purchasing domain names.

homestead

SiteKreator

Network**Solutions.**



Collaboration Tools

- Collaboration tools allow the Internet to go beyond a source of static information into a shared, changing information space.
 - Wikis, like Wikipedia.com, allow users to collaborate, edit, update and append pages with new information, all without knowing HTML.
 - JotSpot (now Google) and Socialtext both provide wiki creation applications.



Data-Centric Applications

- Key offerings on the DIY Web are data-centric application development tools.

- DabbleDB, an AJAX-driven spreadsheet and database platform, allows users to create database applications online using a web interface.
- Zoho offers tools for creating and sharing database applications, spreadsheets, online presentations, wiki tools, a schedule planner, email, and chat functionality.
- Caspio offers tools to allow users to create database-driven applications without requiring programming skills.



Data-Centric Applications

- Additional data-centric applications come from these groups:
 - Coghead created a DIY application development product for tech-savvy users.
 - With Ning, users create applications by copying existing templates and customizing them.
 - Adobe is alpha testing a cross-operating system runtime for developers to leverage Flash, Flex, HTML, JavaScript, Ajax to create Internet desktop applications.
 - Teqlo uses a drag-and-drop "mashup" platform to allow users to build small applications.



Knowledge-Centric Systems

- Importantly for this group, there are DIY knowledge-centric systems available.
 - LogicNets, the only web-based, DIY expert system application currently available, allows users in all fields to take basic process-flow-type building blocks and create applications that fit each expert's needs exactly.

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Taking Advantage of the Tools

- With DIY knowledge-centric systems, you can capture your specific knowledge and share it with others.
 - Build
 - Publish
 - Monitor
- Let users:
 - Make decisions based on key input.
 - Quickly diagnose product or system glitches
 - Follow standardized steps for fixing these glitches.
- Reduce your basic troubleshooting so you can focus more fully on high-level issues.

LogicNets and Knowledge

- As a knowledge-centric application, LogicNets allows users to create a wide range of applications based on their own specialized expertise.
- Users can create applications that provide:
 - Call Center Operation Applications
 - Detailed Instructions
 - Document Generation
 - Financial Calculations
 - Input-Guided Advice
 - Product Configuration
 - Return on Investment Calculations
 - Technical Troubleshooting

Who Is Using The Tools

- LogicNets' customers are in a range of fields, and all have detailed expertise in their fields.





Case Study 1: Troubleshooting

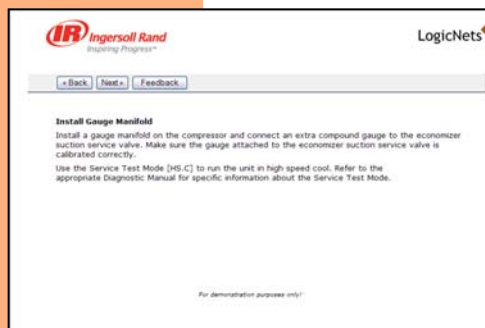
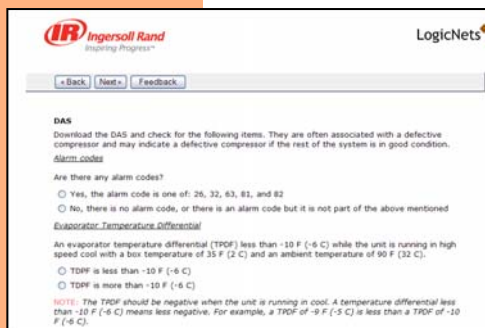
- Thermo King Corporation used LogicNets to create a troubleshooting application for the SB400 unit.





Case Study 1: Troubleshooting

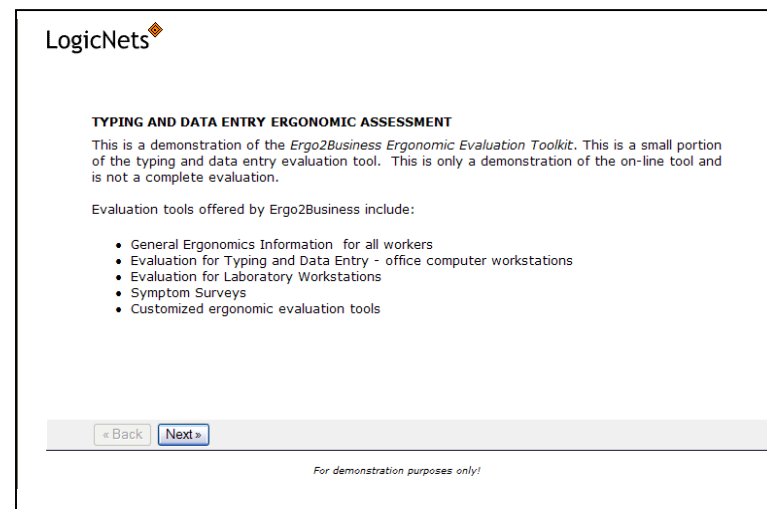
- The application walks technicians through a series of questions and provides the appropriate actions or conclusions based on their input. It also provides instructions on how to repair the product if it is broken.
- This application standardizes the tests each technician performs and the actions each takes.





Case Study 2: Ergonomics

- Fox News used LogicNets to create an ergonomics application as part of its corporate Health and Safety program.





Case Study 2: Ergonomics

- The application allows users to enter key information about their workstation/desk setup to evaluate key ergonomic factors.
- Users and evaluators get back a detailed report with suggested changes or improvements to better meet ergonomic guidelines.

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Keyboard
Is there an adjustable keyboard tray?
 yes
 no

Wrist Device
Does the keyboard have a wrist rest device?
 yes
 no

Ergonomics
Does the keyboard have an ergonomic design?
 yes
 no

Angle
As viewed from the side, which sketch best describes the angle of the keyboard from horizontal?

flat medium high

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Hand/Wrist Position
Hand/wrist position: check the one that best describes the position of the forearm, hand and fingers. Side view

left hand right hand left hand right hand left hand right hand

Hand Angle
Hand angle position: check the one that best describes the position of the Right and Left hand shown separately.

Left hand Right hand



- NASA signed a Space Act Agreement (SAA) and is beginning work with LogicNets to develop an intelligence modeling and runtime environment for autonomous robotic systems.

Case Study 3: R&D





Case Study 3: R&D

- The intelligence models will be embedded into a variety of vehicles, and will control the vehicles during various missions and tasks in different environments.
- The test-bed framework will also provide a means for testing new exploration technologies, procedures, and techniques.

Questions?