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Your Legacy System

Gentlemen, we can rebuild it.

We have the technology

We have the capability to build your companies most *powerful software*.
Your legacy system will be that software.
Better than it was before,
Better... stronger... faster.

©1973 Six Million Dollar Man

Accelerating Software Development and Modernization

The **CloudServices24x7** Challenge

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Today's Speaker

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In this Session

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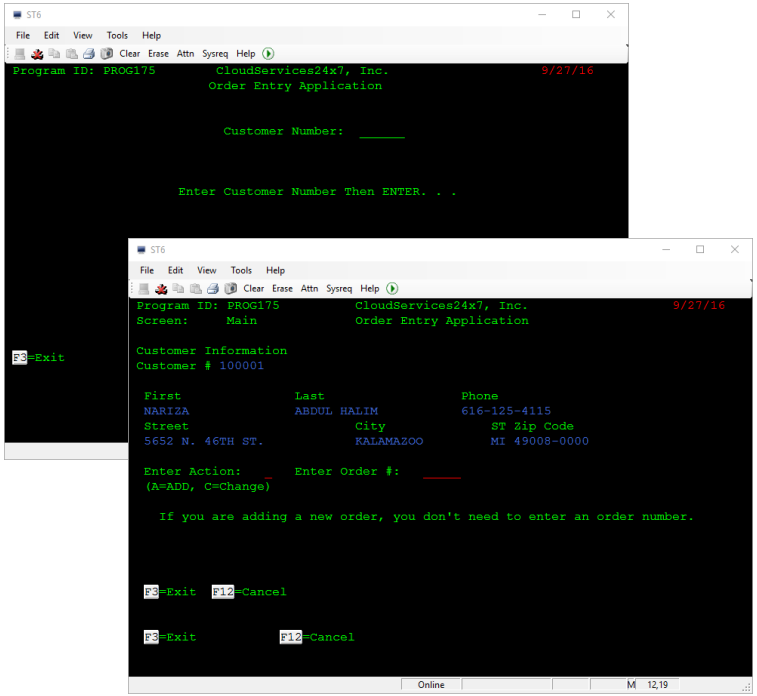
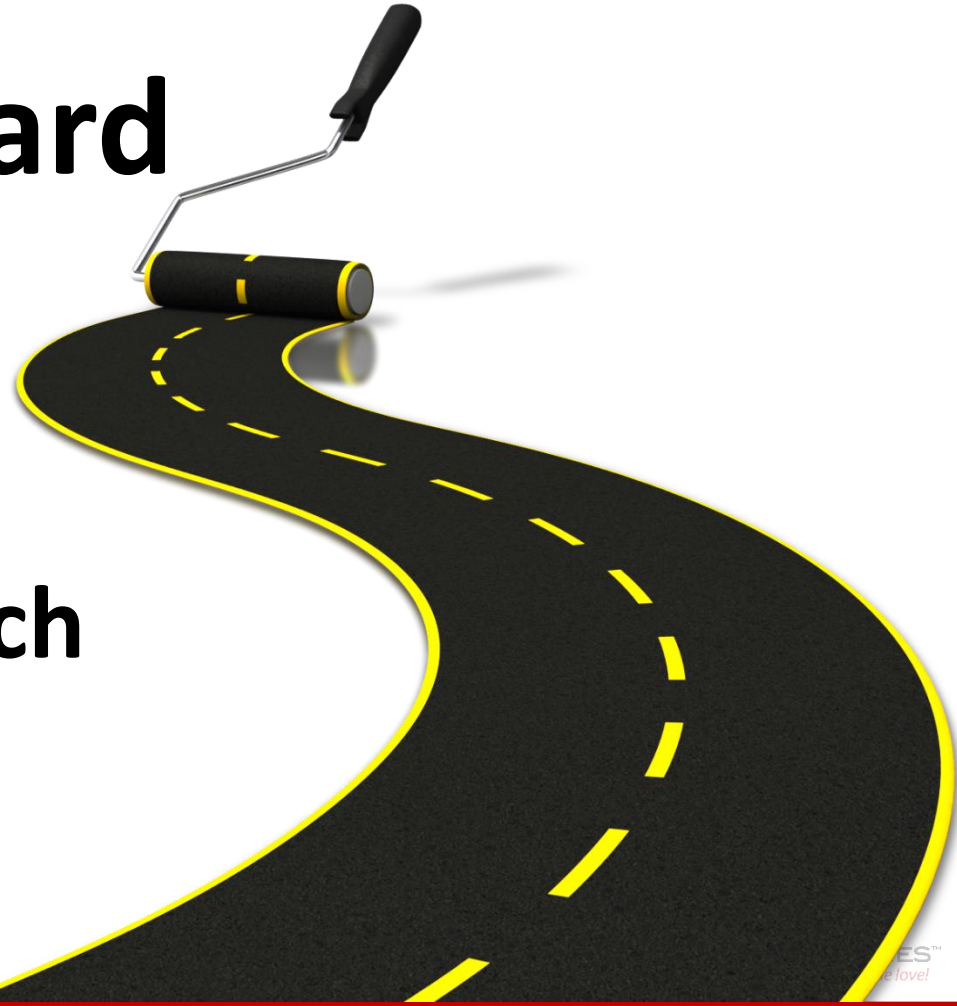
We will use the CloudServices24x7 Legacy System



Shipping Weight: 1st 3 positions are pounds; last 2 are ounces
Is Active: Y or N
Reorder Code: Blank or R
Product Type:
- LPC – Laptop Computer
- HEN – Home Entertainment
- GSP – Gaming System Parts
- NET – Networking
- MON – Monitor
- PSP – PC System Parts
- OFS – Office Supply
- PRT – Printer

The Way Forward

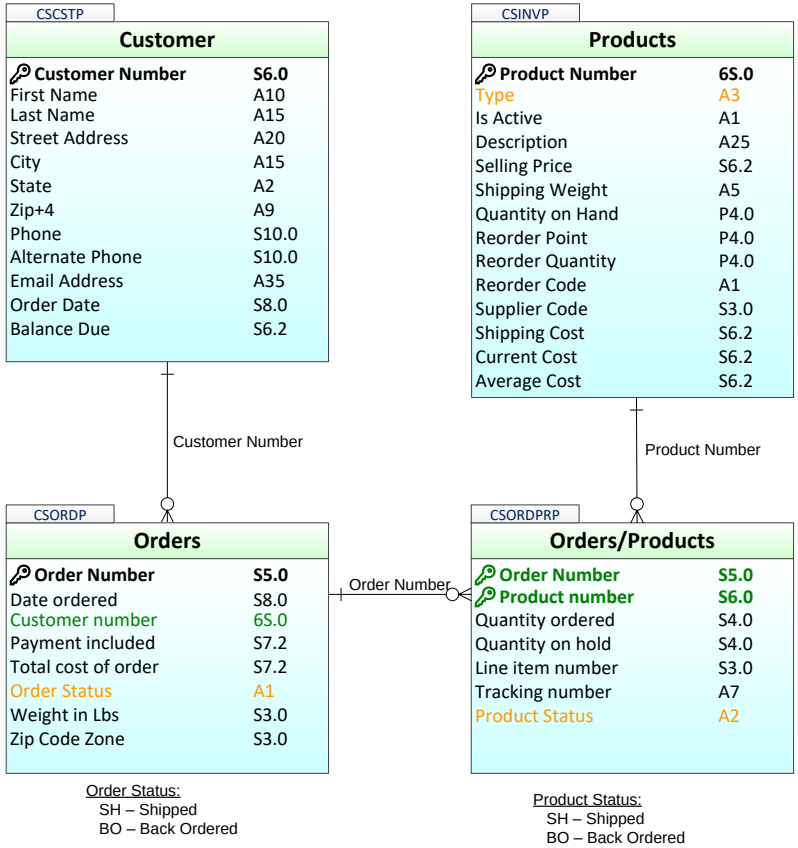
A Modern Approach
To Software Modernization



Define the Problem

CloudServices24x7
Legacy System

- 4 Physical Files
- 45 Fields
- 3 File Relationships

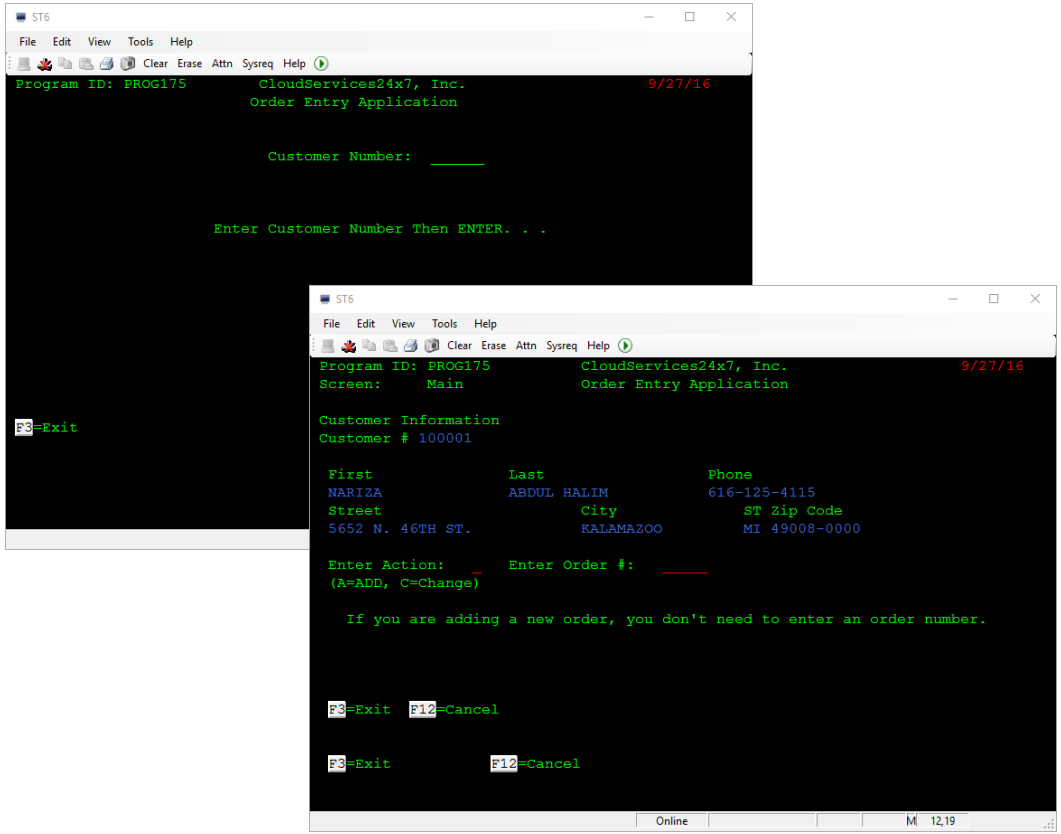


Define the Problem

CloudServices24x7

Legacy System

- 1 Program
- 5 Screens
  + one Prompt



Define the Problem

CloudServices24x7 Legacy System

- Navigation is clunky and confusing
- Limited Functionality
  - No way to browse (Work With) Customers.
  - No maintenance on Customers or Products
  - Property-type field values do not have look ups
    (Order Status, Product Item Status, Product Type, …)
- No support for Images

Challenge Requirements

1. This application must prompt for a Customer number. If the customer number is valid, the application will present a screen that will allow the user to change an order or enter a new one.
2. The application must allow the user to add, change, and delete orders.
3. Orders must allow for multiple line items.
4. The order items should include an image of the part.
5. An order should be exportable to a spreadsheet directly from the screen.

Building the Application

- Prep before getting here
  - Created Company and App Logo's
  - Found images for Products and Customers (created an image file)
  - Built Open Generation Technology, OGT, Plug-in
  - Hmmm? Nope, nothing else. That was it.

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Building the Application

What we will do here today

- Generate **Windows**, **Web** and **Mobile** Apps
  - Software will be NEW well-architected software.
  - Software will be FULLY-FUNCTIONAL
    (not just partial software)
- Demo generated apps

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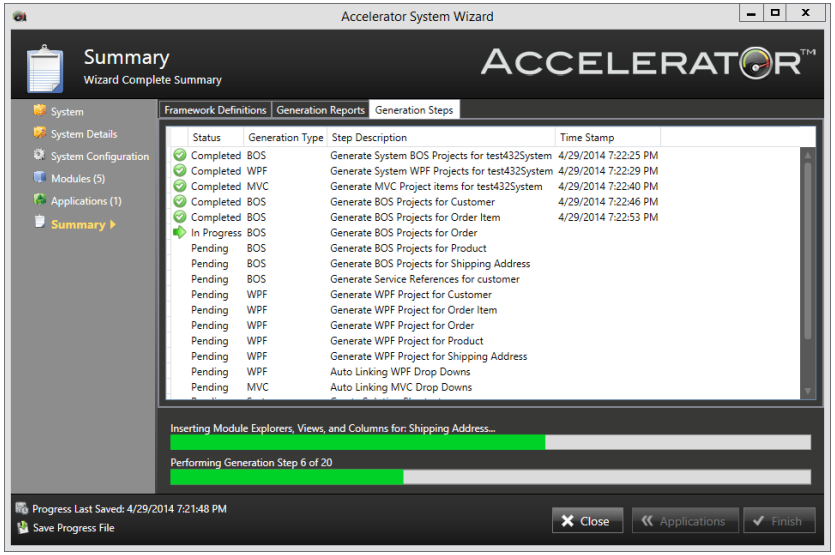
Development Accelerators

- Software Generation
  - Software Generation Wizards
    - System Wizard – Generate brand new systems
    - Application and Module Wizards – Generate new functionality for existing system
  - Open Generation Technology (OGT)
    - Standards Configuration
    - Template Substitution
    - Generation Wizard Plugin



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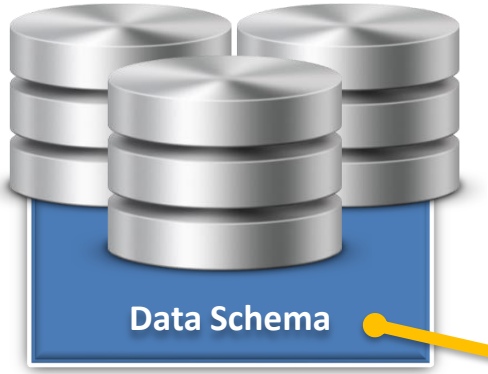
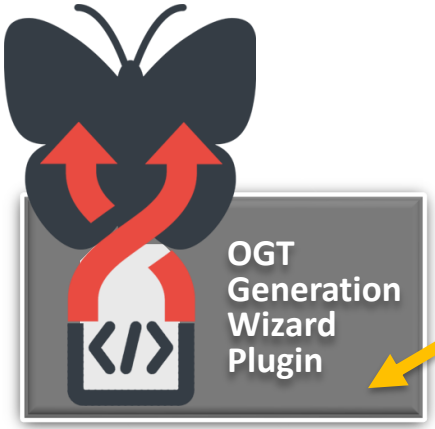
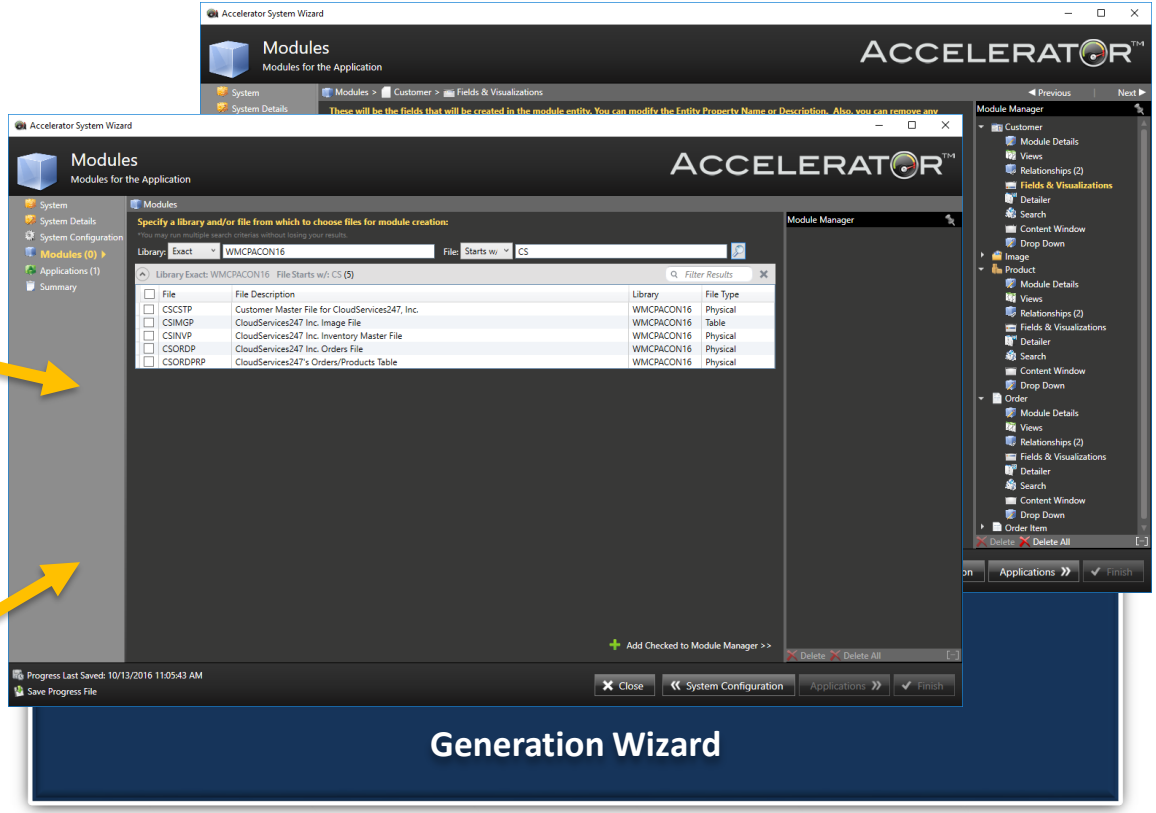
OGT - Generation Wizard Plugin







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OGT - Generation Wizard Plugin

Examples from this Challenge

- Removed keywords from file description to get a meaningful module name
- Changed all column/field descriptions to use title case
- Added module relationships
- Added joins to the image file based on module relationships
- Added virtual fields that concatenated any names or addresses

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OGT - Generation Wizard Plugin

Examples from this Challenge

- Added a column rule for dates to use DateTime data type and date picker visualization
- Added column rules to set visualization, formatting and validation for Currency, Phone Numbers, Email, Checkboxes, Radio Buttons, etc.
- Set the checked state and sequence for all module options (Fields included in Searching, Data Grid Display, Detail Display, etc.)
- Added additional Accelerator Views (Accelerator Views allow an end user to select a preset sort and column arrangement)

Demonstration

Building Software Efficiently and Effectively

Starting with

Complete System Generation

Demonstration

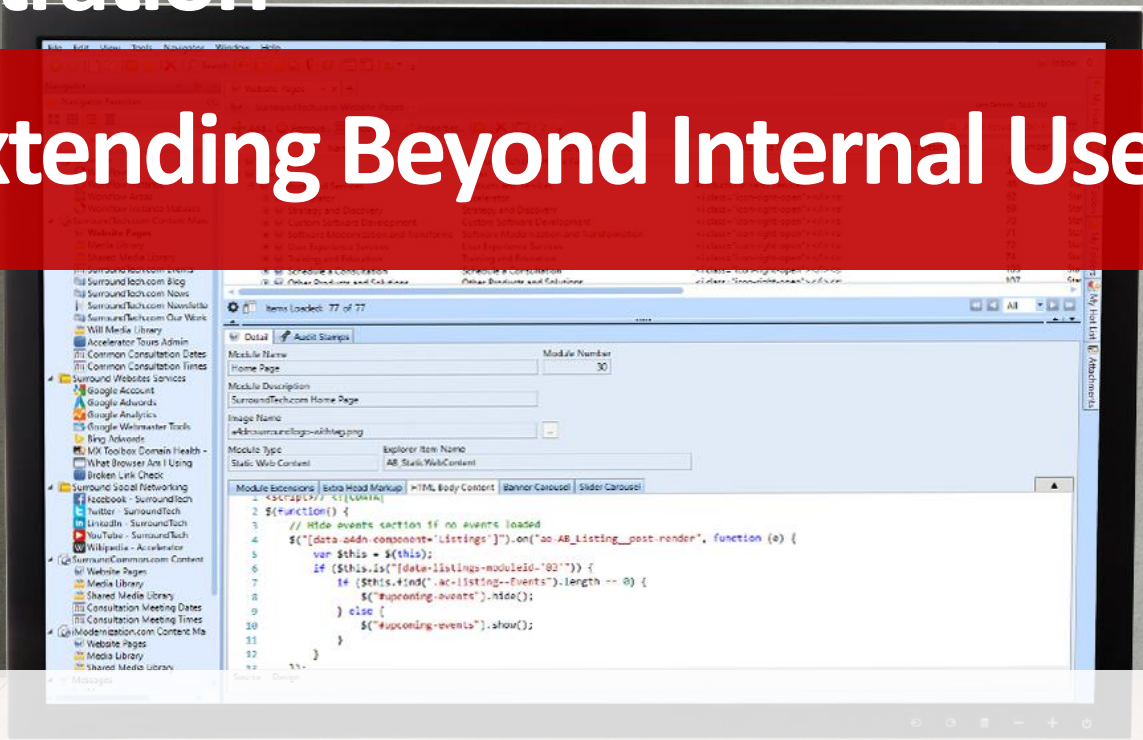
Providing Robust Applications to your Users

Responsive Web Desktop-style and Mobile Application

Windows Desktop Application

Demonstration

Extending Beyond Internal Use



A CMS for Websites and Portals

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What we did different

- NOT just the UX
- Rewritten application with new architecture
- Web Service Enabled
- Both Windows and Desktop Style Web/Mobile Web
- eBusiness Website
- UX Design
- No additional Technical Debt

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What we did different

- No additional Technical Debt
- No Proprietary Technologies
- No Limitations
- No Technology Lock-in

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How long did it take

- OGT Plugin (1 hour)
- Generation (15 min)
  We did it here in front of you. Did you time it?
- CMS based Website (4 hours)
- What would be next
  - Deployment (will take about 30 min)
  - You can see all of this again at http://cloudservices24x7.surroundtech.com

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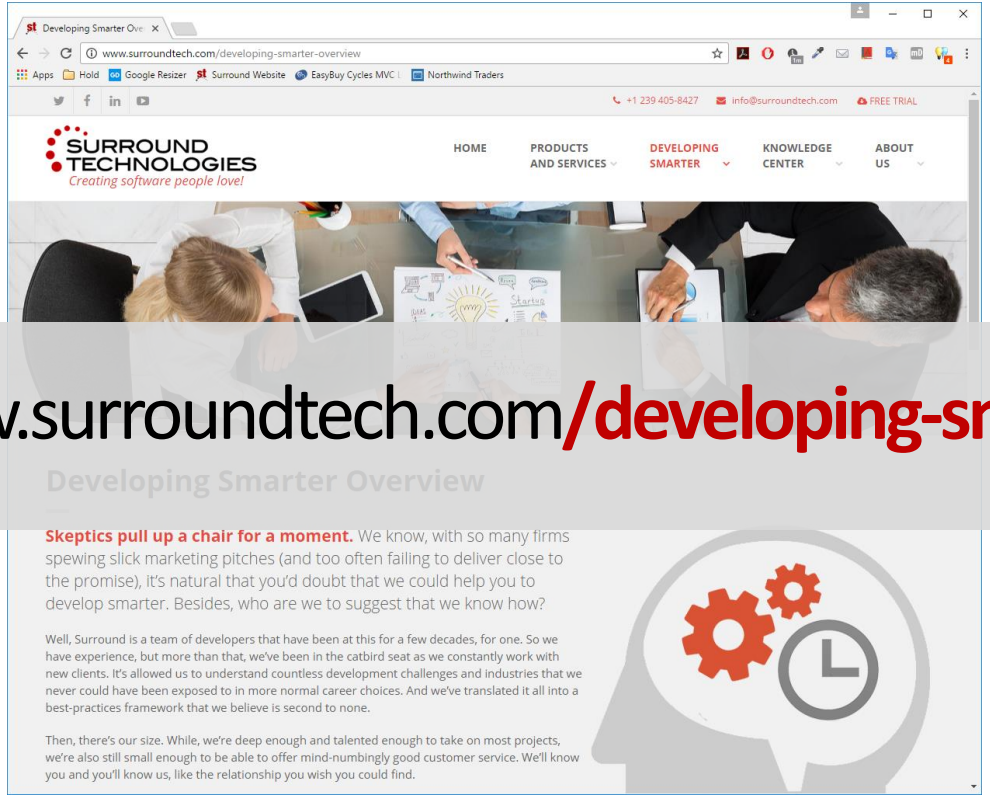
Developing Smarter



http://www.surroundtech.com/developing-smarter-overview

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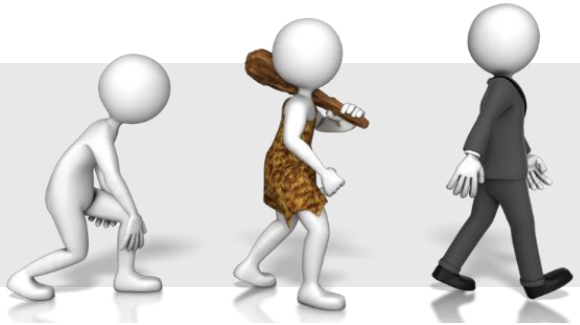
Our Strategies

We apply our broad industry experience to analyze and assess where you are today and where you wish to be in the future to provide an agile phased strategy to getting there over a timeframe that makes sense for your business.

- Tactical and Strategic
  (Evolve and adapt)



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Our Core Strategy

- **Accelerated Software Development**

  Build Great Software – Fast

  http://www.surroundtech.com/accelerating-software-development

- **Applied To Modernization**

  The Faster, Smarter Way Forward

  http://www.surroundtech.com/accelerating-application-modernization

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Tool Enablement

Develop Software People Love - Fast

http://www.surroundtech.com/accelerator

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Modernization Options

- Accelerator
  - Architecture
  - Frameworks
  - Generation
  - Development Accelerators
  - User Experience

- Fresche Legacy's Looksoftware
  - Reuse legacy 5250 and 3270 Uis
  - **Plugs into Accelerator-based Apps**
    Provides strategic approach with rapid, tactical, low-risk return

- Fresche Legacy's X-Analysis
  - Detailed analysis of Current State
  - File/Module Relationships
  - Screen Designs, Relationships and Layouts
  - Business rule extraction and code conversion
  - **Feeds Accelerator Generation**
    Significantly reduces re-write development effort and time

ACCELERATOR™ Flexibility

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Deliver the **right application**
to the **right user**
on the ***right device***

- Line Of Business
- Customer Self-Service
- Ecommerce
- Mobile
- Tablet
- Kiosk
- Etc …

ACCELERATOR™ Options

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Develop what you need at **your pace** when **you need it.**

- Write new software
- Rewrite existing software
- Extend existing software
- Reuse and integrate with existing programs
- Reuse and transform existing 5250/3270 “Green Screen” User Interfaces
- Rapidly deliver enterprise Windows, Web and Mobile applications
- Evolve legacy systems to new modern applications at your pace.
- Combine new, legacy and other systems into one seamless unified user experience.
- Stop building more legacy and accumulating even more technical debt.
- Advance developer skills, learning the most modern technologies quickly.
- Use best practices software design and architecture.
- Have superior application performance and reliability.
- Eliminate your change request backlog.

ACCELERATOR™ Freedom

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No Proprietary Technologies

No Limitations :: No Dead Ends

DEVELOP

FASTER BETTER MORE

SMARTER

The future
is clear
ACCELERATOR™
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Reach your
Software Superhero Status!

Create Software Users Will Love

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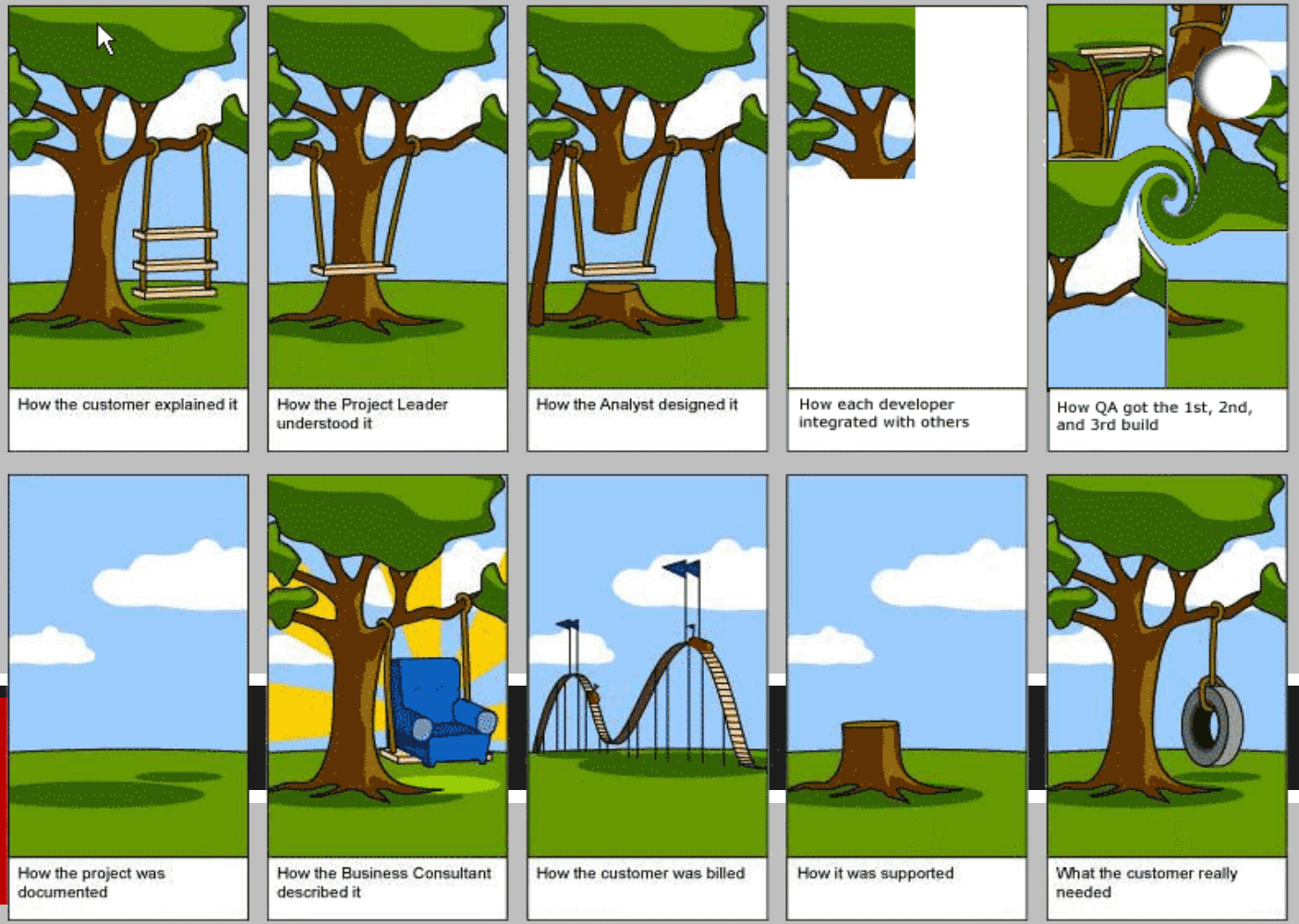
We believe that **you can be a software superhero** by creating software your users will love, and your business will see value and return.

Q&A


How the customer explained it
How the Project Leader understood it
How the Analyst designed it
How each developer integrated with others
How QA got the 1st, 2nd, and 3rd build
How the project was documented
How the Business Consultant described it
How the customer was billed
How it was supported
What the customer really needed

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Thanks for listening

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