A Small Online Business Built with PERL

Abacus Wellness Online, LLC

www.AWOhealthcare.com

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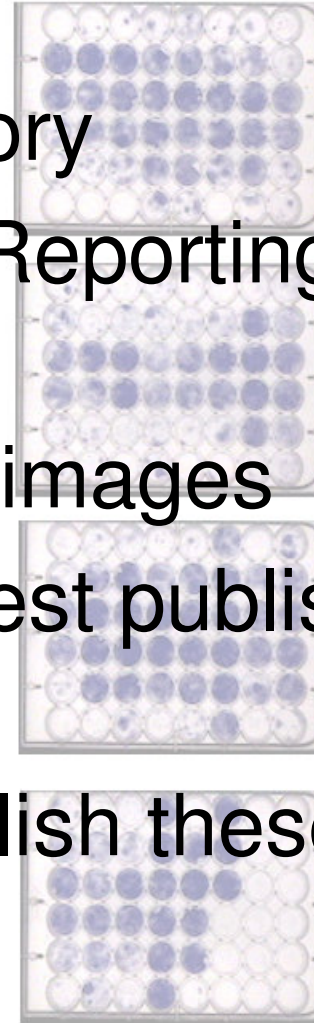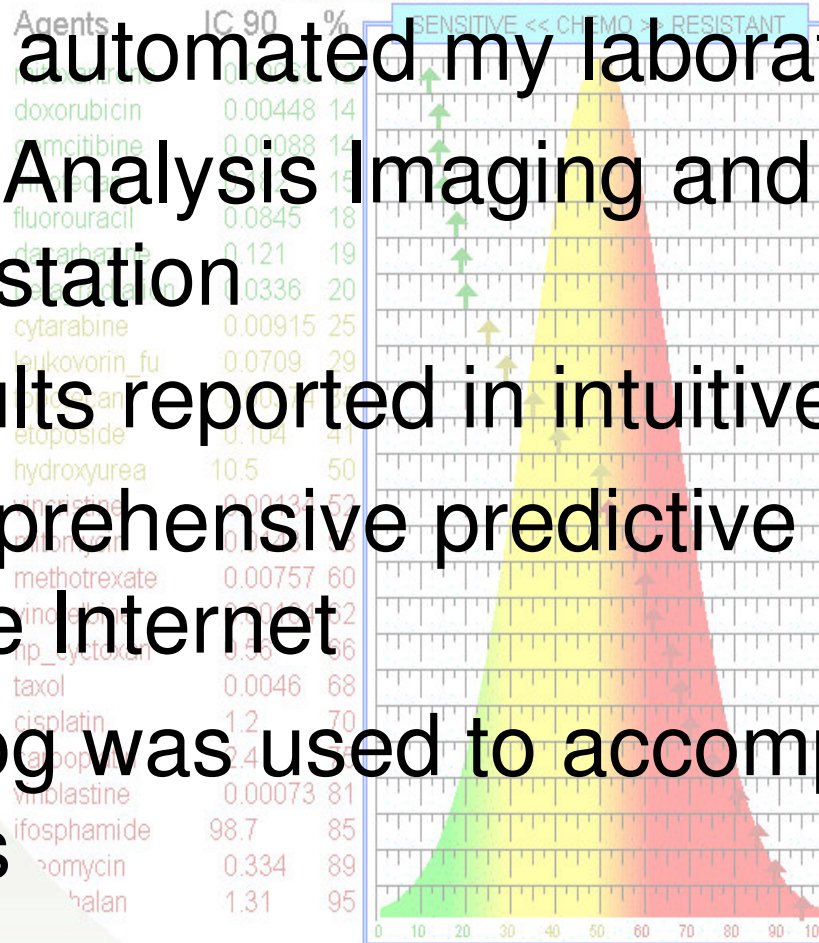
713.202.2503

Some History

- Earned Ph.D. in Physiology From Queen's at Kingston
- Engaged a cancer research career in 1973
- Discovered new method to grow malignant cells in vitro
- Developed and validated a new Cancer Chemosensitivity test at MD Anderson Cancer Center
- Test was licensed to International Clinical Laboratories in 1986
- Smith Kline Biosciences acquired ICL in 1989
- SKB owned a competing technology and shut mine down
- Opened a private CLIA certified clinical laboratory near the Texas Medical Center in 1989
- Operated the lab for 11 years … increasingly stringent reimbursement forced closure in 2000

Early Programming Activity
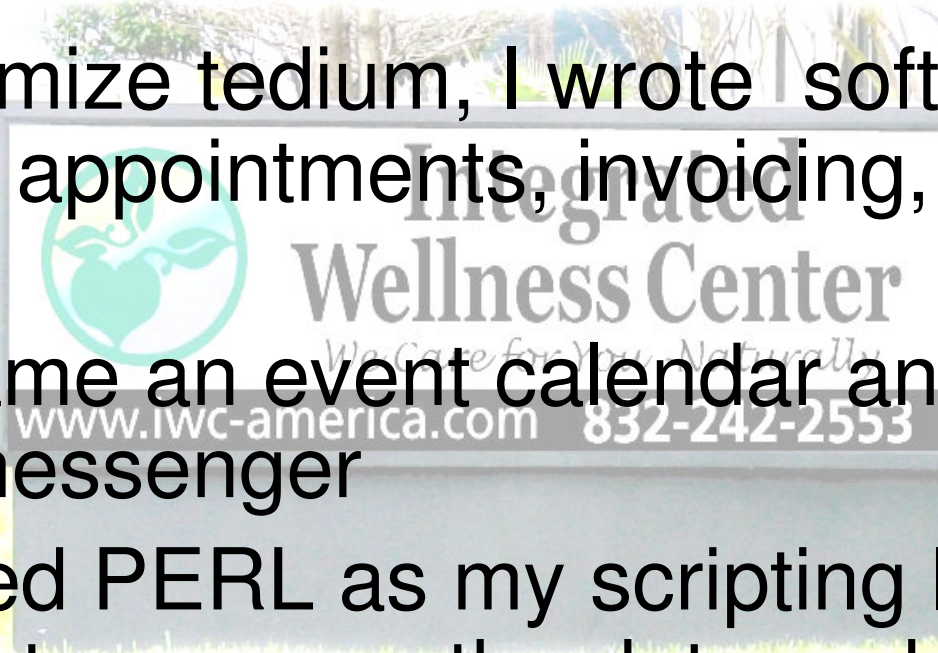
- Fully automated my laboratory
- Built Analysis Imaging and Reporting (AIR) workstation
- Results reported in intuitive images
- Comprehensive predictive test published to the Internet
- Prolog was used to accomplish these tasks

Serious Programming Activity

- Cofounded and managed the Integrated Wellness Center of Houston in 2000
- To minimize tedium, I wrote software to handle: appointments, invoicing, and payroll
- Next came an event calendar and an email messenger
- I adopted PERL as my scripting language, mySQL to manage the data and encountered the need to use JavaScript

CAM-Admin was Born

- CAM is short for Complementary and Alternative Medical: examples include naturopathy, acupuncture, massage, etc.

- Added the LifeStyle Monitor®, a public portal for clients to monitor their wellbeing

- Began marketing my program in 2007

- Added: an Apothecary, tabbed Client Consultation screen, Client Processing, and numerous utilities

Abacus Wellness Online, LLC

- Acquired a Business Manager, Bob Vinson, MBA
- Incorporated in 2011
- Added Marketing Website
    www.AWOhealthcare.com
- Registration and Account Setup fully automated
- Credit Card Processing added
- Adapted to run on Tablet computers
- Home Healthcare Mobile Menu added
- Support System completed
- Third Party Reimbursement currently being added

CAM-Admin Main Menu

- **Reception**
  – Call Notes
  – Appointment Book
  – Scheduling
  – Will Call

- **Payroll**
  – Time Clock
  – Practitioner's Fees
  – Employee Payroll

- **Apothecary**
  – Process Consultation
  – Services Manager
  – Product Manager
  – Purchasing Orders

- **Settings**
  – Appointment Types
  – Practitioner Schedules
  – Company Profile
  – Uploads

- **Consultations**
  – Consultation Screen
  – Notebooks
  – Client's Wellness Chart
  – Quick Consult Invoicing

- **Claims**
  – Payer Credentials
  – Insurance Credentials
  – Eligibility Check
  – Claim Submission

- **Marketing**
  – Email List Manager
  – Messenger
  – Event Calendar
  – Newsletter

- **Client Portal**
  – Account Management
  – Wellness Questionnaires
  – Daily Diary
  – Crises & Vital Signs Log
  – Nutritional Calculator

- **People**
  – Client Management
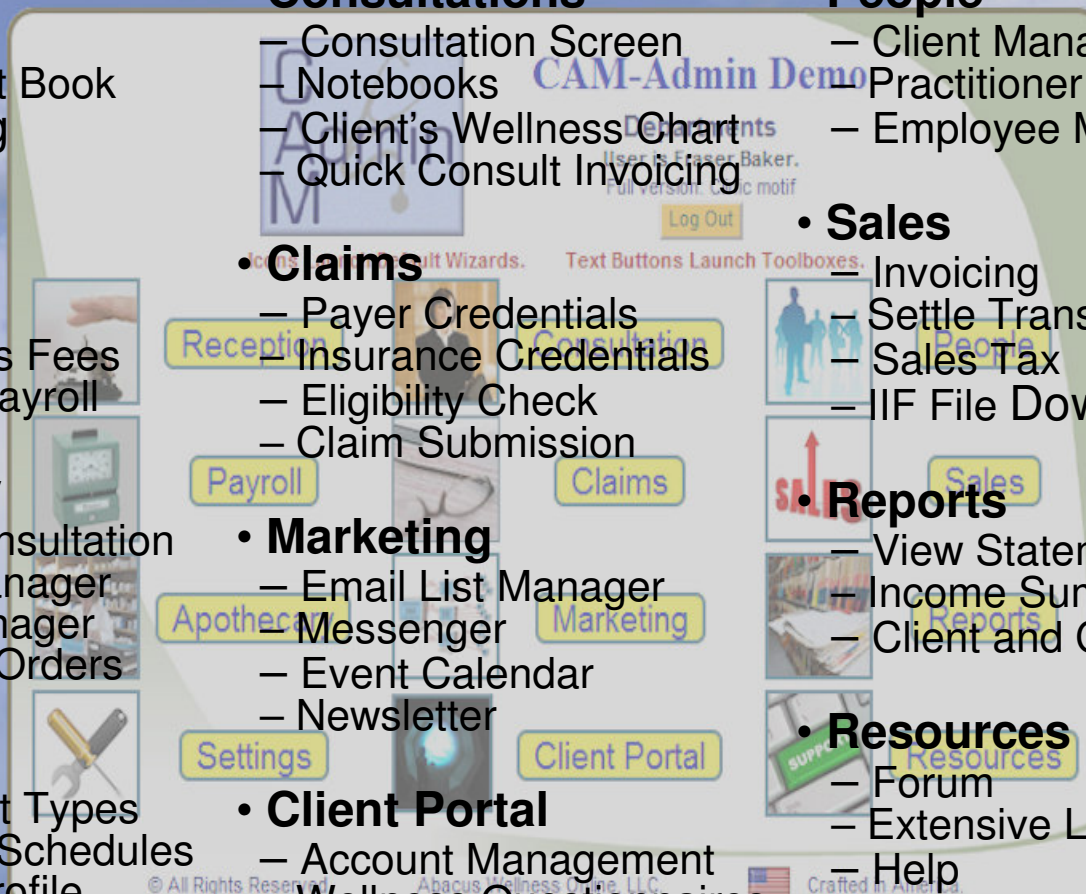 – Practitioner Management
  – Employee Management

- **Sales**
  – Invoicing
  – Settle Transactions
  – Sales Tax
  – IIF File Download

- **Reports**
  – View Statements
  – Income Summaries
  – Client and Clinic Activity

- **Resources**
  – Forum
  – Extensive List of Forms
  – Help
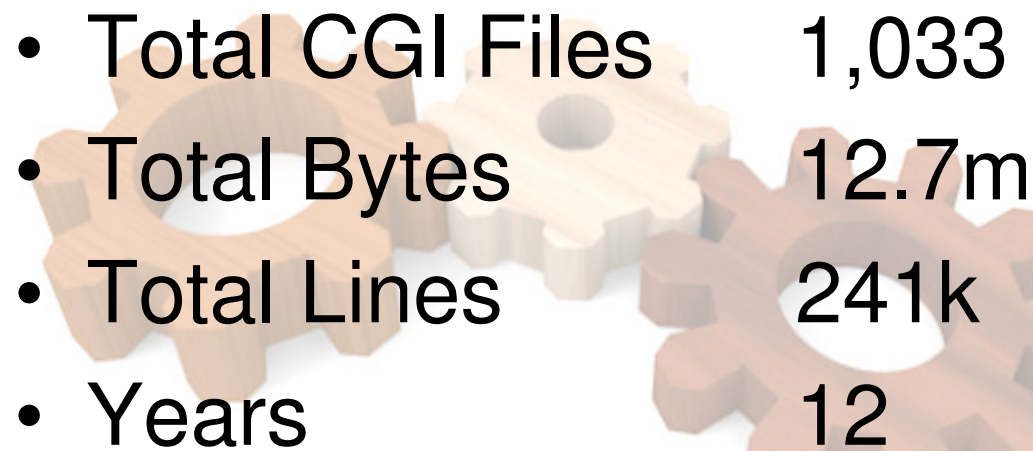 – Mobile Application Links
  – Support

Markets

- CAM Practices
  - Naturopathy
  - Homeopathy
  - Acupuncture
  - Massage
  - Holistic Healthcare
  - Herbologists
  - any Cash Wellness Enterprise that sees clients by appointments
- Chiropractics
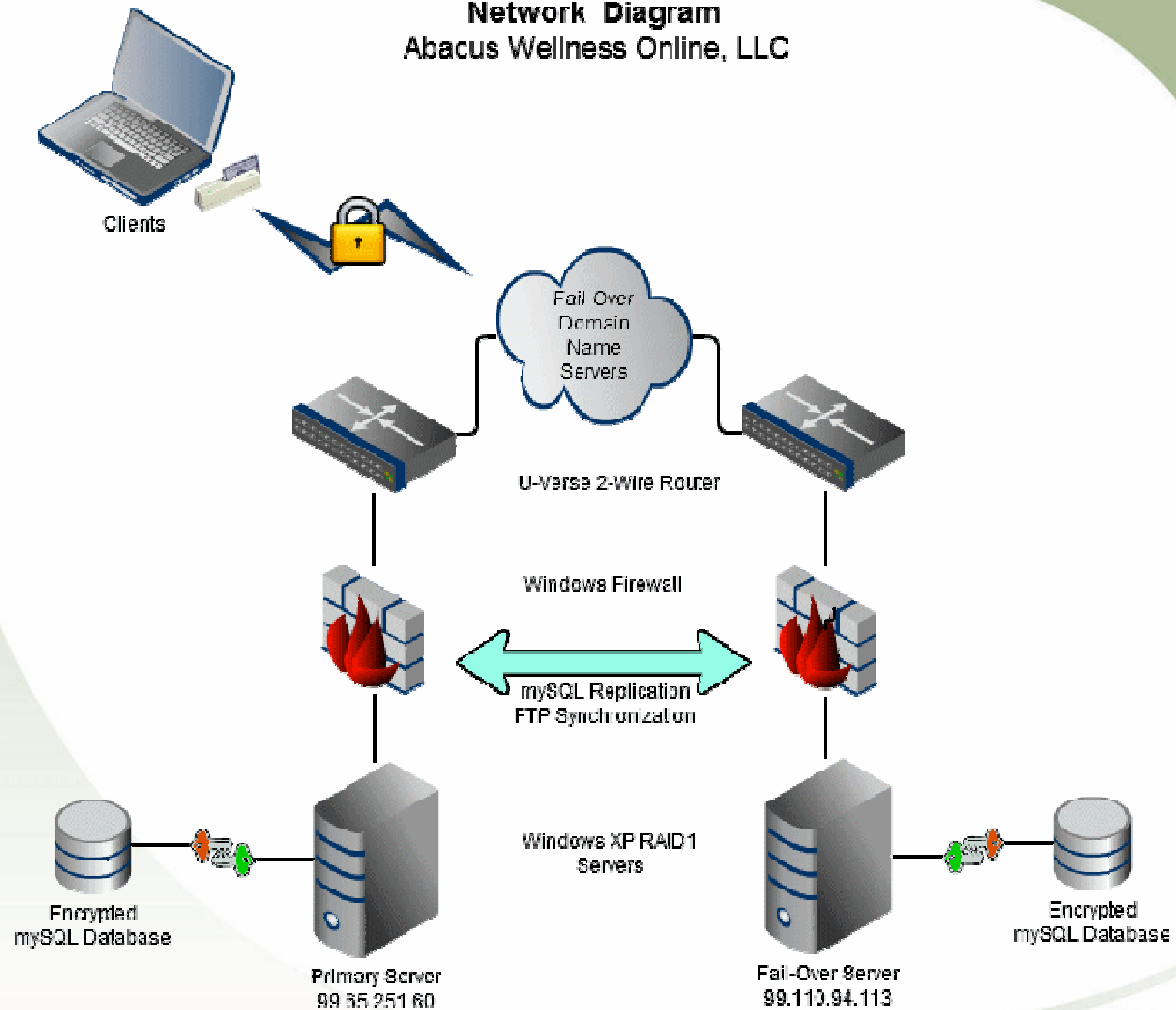- non-medical Home Healthcare Agencies

Some Numbers

- Total CGI Files   1,033
- Total Bytes   12.7m
- Total Lines   241k
- Years   12

Network Diagram
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Clients

Fail Over Domain Name Servers

U-Verse 2-Wire Router

Windows Firewall

mySQL Replication
FTP Synchronization

Windows XP RAID1 Servers

Encrypted mySQL Database

Encrypted mySQL Database

Primary Server
99.65.251.60

Fail-Over Server
99.113.94.113

What did PERL have to do with all this?

- PERL was easy to learn
- PERL is hugely supported
- PERL is used to access mySQL via DBI
- PERL prepares data and launches HTML
- PERL easily and quickly manages text
- my PERL is pretty simple

Challenges Encountered

- Conceiving a Program / Function
- Getting PERL to collect and organize data
- Getting HTML / CSS page to look good
- Getting JavaScript to trap data entry error
- Getting JavaScript to dynamically update page
- Eliminating Server Errors
- Eliminating User Generated Errors

Demonstration Account

CAM Administration Logon

To LogOn to your account, enter your Account ID, User Name, and Password. Please review our Privacy Policy, then check the box to the right of the link to the Privacy Policy.

- Domain   www.cam-admin.com
- Account ID   camDemo
- User Name   camDemo
- Password   camDemo (cs)

Account ID   camDemo   ☑ Remember my Account ID.

User Name   camDemo

Password   •••••••

Privacy Policy   ☐ I agree after reading Privacy Policy.

Menu   ○ Legacy Main Menu   ● Departments Menu

Help!

- I believe CAM-Admin is a viable product
  - Presently has some 20 users
- Need Technical Partner
- Need Marketing Partner
- Need Development Partner
- Need to Retire

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