**Background**
Paychex sales staff give live demonstrations of various Human Resources and Payroll products to potential clients.

Sales representatives collaborate with system administrators to rig up demos tailored to individual corporations.

**Motivation**
- The demonstration process is difficult to set up for sales representatives
- Data integration between applications is hard to demonstrate live
- Customizing data for specific demos is a time consuming and laborious process

**Features**
- Fast setup of applications to demo using Amazon EC2
- Easy data customization for clients
- Monitoring of EC2 instances
- Real-time data integration across applications

**Components**
- Web Application
- Setup and customize demos
- EC2 instance management
- Job Queue
- Spawn EC2 instances
- Data generation for applications
- Windows Services
- Queue watchdog
- Periodic instance actions

**User Interface**
- Launching a Demo
- Demonstration Mode
- Admin Demo Dashboard
- Industry Data Editor

**Architecture**
- EC2 Instance
  - Payroll
  - Time & Labor
- Applications
- Database

**Demo Creation**
- Setup
  - Choose Apps
  - Choose Industry
- Boot
  - Boot EC2 Instance
  - Start Apps, DB
- Demo
  - Single Sign On
  - Demo Mode

**Process: Scrum**
- 7 sprints, 2 weeks each
- User stories as acceptance tests
- Planned sprints with sponsors
- Test driven development

**Technology**
- Amazon Elastic Compute Cloud (EC2)
- ASP.NET MVC 2, SQL Server 2008
- Scrum Backlog Organizer
- Pivotal Tracker
- Hudson

**Future Plans**
- R&D department to hook in real applications
- Proprietary database integration
- Enhanced EC2 instance management
- Deployment to sales representatives