Computer Assisted Self Interview

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Problem
• Survey Data was taken via paper forms. Takes employee time, and data entry is error prone

Solution
• An iPad application can retrieve survey data from a server, and automatically submit subject responses reliably and efficiently

Technologies: C#, ASP.NET, MS SQL Server, Objective-C (Cocoa), OpenSSL, SQLite, SQLCipher, C++, Blowfish

![Diagram of the process]

- User Authentication
- Survey Information Retrieval
- Answer Submission
- Web Service
- Create a new Survey
- Get Survey/Store Response
- SQLite
- iPad Application
- Survey Builder
- MS SQL

Survey Builder
• Survey Author creates a Survey to be deployed across all iPads.

Web Services
• Web Services provide a SOAP/XML interface to transmit Survey structures to iPads, and intercept Survey responses.

iPad
• Intercepts Survey structure and builds a tree in memory.
• Allows a user to take a Survey, changing the tree path based on answers in real time.
• iPad will submit responses back to Web Service if Internet connection is available.