

Research

Basic Mobile Technology for Basic Support

Health and Wellbeing Breakout

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Mobile Emerging Market Overview

- Two types of market (3.3B cellphones WW)
 - City center / USA and European (10%)
 - Rural and urban (90%)
- Rural / Urban characteristics (BOP)
 - Very large numbers of people / Socially based systems
 - Very low income / Low value transactions
 - Little or no technology, skills or infrastructure
- Technology Availability
 - Basic cell phone (voice and SMS)
 - Low cost handset and no data plan
- Business models
 - Government to citizen
 - Heath, agriculture, Social Services, Education
 - Telco, Finance
 - Consumer to Consumer



Health and Well Being

- Simple and basic Health Care support and advice can be difficult to obtain:
 - Access to Hospitals, Clinics and Pharmacies
 - Distance
 - Transportation
 - Lines and availability
 - Little or no technology or infrastructure support
 - Internet
 - Computers
- Very large numbers of people require healthcare information
 - Scale
 - Cost
- Real time healthcare information is important and difficult to obtain



- Simple health care information available from a cell phone
 - Patient phones local access number from basic cell phone
 - Provided with voice menu system which provides simple healthcare information
 - Configured for local healthcare issues
 - In local language using local terms and descriptions
 - Using locally available medicines and treatments
 - Minimal health care professional impact
- Result: Improved health care at a very low cost

Internet style health care on the cell phone

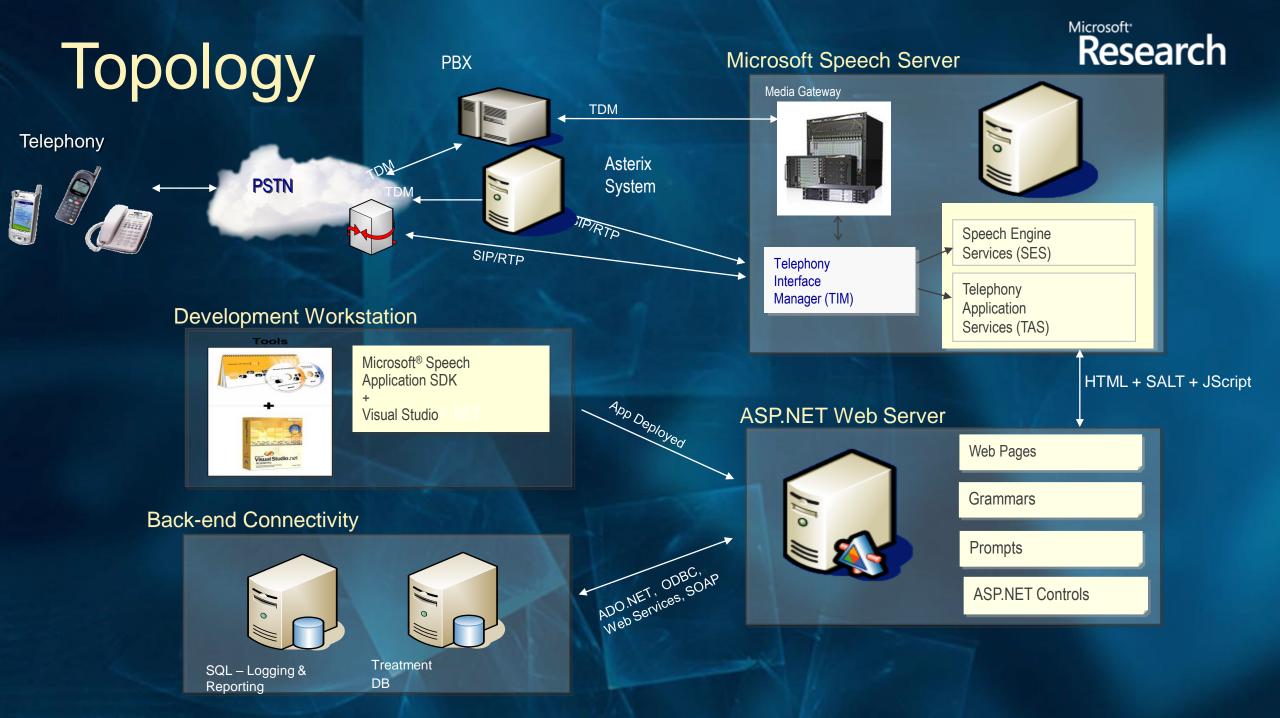
Healthcare Applications

- Voice Web pages
 - Provide same information on Web and phone
- Illness information
 - 70% of people want to understand medical problems
 - Rapid growth of web based medical information systems (WebMD etc)
- Health and lifestyle advice
 - Preventative medicine
 - AIDS / Sexual / Diet / Exercise
 - Standard and customized
- Treatment planning
 - Outpatient and long term care



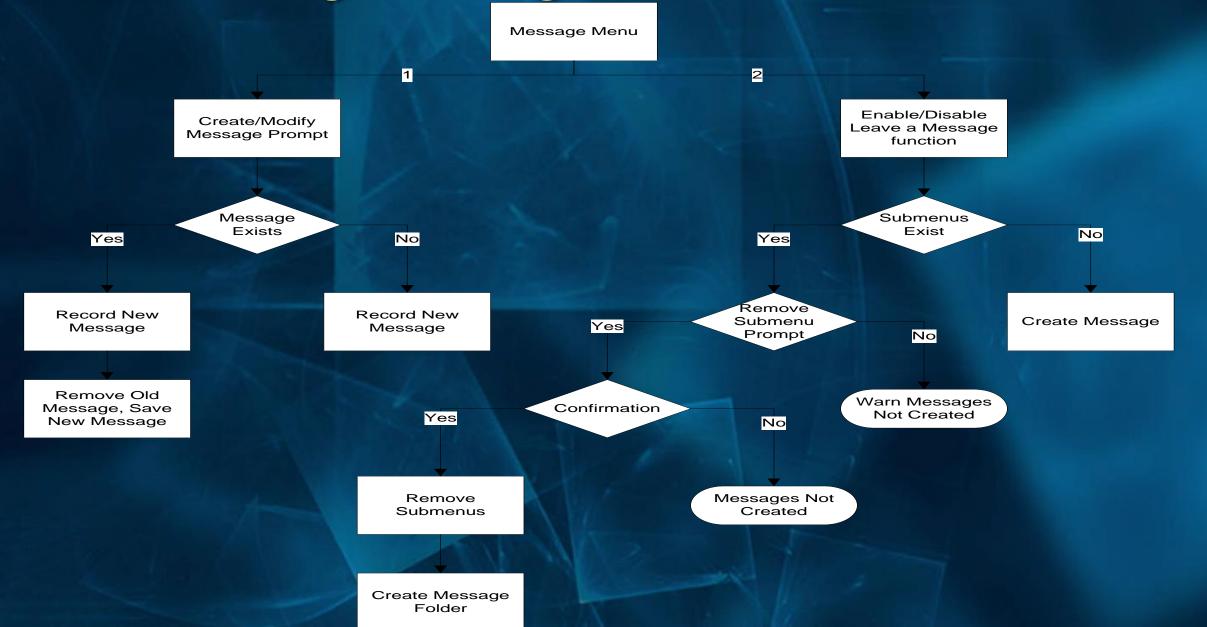
Asynchronous Voice

- Voice Based Service (IVR) with voice based programming model
 - Low cost implementation
 - Scalable
 - Basic and feature phone client support
 - Language and Education agnostic
 - No programming skills required
 - Based on Speech Server
 - Cloud service



General Programming Workflow

Research



Integration

- Doctor / healthcare professional
 - Provides information (like a web site)
 - Not a replacement for a Doctor
 - No legal implications
- Emergency and Call Center
 - Not a replacement
 - Call center filtering
- Phone and internet
 - Local phone number in Hospital / Clinic
 - Internet connectivity
 - Service in the cloud

Project Details

 Media gateway in Local Hospital attached to local phone line and Broadband

- Application provides
 - Menu and navigation system
 - Voice and text storage and replay
 - Ability for Medical professional to:
 - Configure and update
- Minimal cost, skills and time
- Pilot testing in a few locations in a few Countries (Mexico and Peru)
- Understand technical, social organizational and health constraints
 - Validate approach



Conclusions

- Success
 - Social
 - Huge demand
 - Simple for end users
 - Provides real low cost healthcare
 - Scales to millions
 - Sparks new applications
 - Technical
 - Basic Phone
 - Voice
 - Voice programming
 - Cloud service

Issues

- Scale to billions
- Economic sustainability
- Business model
- Politics

Research

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