Alpha Demonstration
Mobile Health Management System

Team Medtronic
CSE 498, Collaborative Design

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Project Overview

- Mobile Health Management System
- Improve health and prevent future health problems
- Two applications to track health:
  - iPhone Application
  - Web Application
- Input food and exercise information
- Select goals to track
- Display user’s progress on graphs
- Suggest healthier food choices
Architecture Illustrated

- Internet Platforms (Google, Healthvault, etc.)
- Integrative Wellness Web Application
- External Data (Consumer Devices, PHR Data, Non-MDT IMD Data)

- Weight & Diet Management
  - Caloric Intake vs. Expenditure
  - Dietary guideline
  - Target Weight
  - Body Mass Index
  - Resting Metabolic Rate
  - Daily Caloric Needs

- Exercise Management
  - Activity level
  - HR, % of Max
  - Target HR Zones

- Stress Management
  - Autonomic Coherence
  - Respiratory Training

- Personal Growth
  - Changing Habits
  - Emotional Awareness
  - Performance Management

- Other 3rd Parties
- Social Network
- Patient
- Health Coaching
- IM Research
- Personal Development

- IMD Data
- Consumer Input
  - Diet
  - Thoughts
  - Emotions
  - Behavior
Screen Shot
What’s left to do?

• Add more goals to track
  – Heart Rate
  – Blood Sugar
• Add device data
• Suggest food
• Only show goal specific information
• Account registration
• Edit account information
• Correlation of graphs
• Alerts when user has not entered data in