Project Plan
WhiteCaps: Mobile Whiteboard Capture Solution

The Capstone Experience

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Spring 2011
Project Overview

WhiteCaps

- Mobile devices that capture whiteboards and other information
- Cloud to hold whiteboard images and metadata
- Web client to manage user profiles and whiteboard captures as stored on the cloud
Functional Specifications

• Mobile apps must take whiteboard captures and upload to the cloud.
• Users must be able to attach text and voice notes to each capture.
• The device should be able to detect its location and attach it to the capture as well as allow the user to type in a location and scan a QR code to associate with that location.
• Users must be able to add a hash tag for the meeting name that will be used for searching and associating captures to each other.
• Need to be able to interpret QR codes, to retrieve location data.
Design Specifications

• Simplistic and clean mobile application
• Want to be able to capture a whiteboard and upload in < 30 seconds
• The desktop web browser will have more content than the mobile application
• All three applications should follow the Model, View, Controller pattern
Screen Mockups
Screen Mockups
Technical Specifications

• iPhone app must be compatible with iOS v3.1+
• Android app must be compatible with Android v2.1+
• The web interface must work with all major web browsers.
• The back-end must run on Windows Azure Cloud Service.
System Architecture

- Send Image and Whiteboard meta-data to the cloud
- Azure server serves up images, and allows user to create and modify groups to view varying levels of content
- Web Browser Application
- The Azure server will also serve data and images to the mobile devices as well

Android Application  
IOS Application
System Components

- **Hardware Platforms**
  - iPhone
  - Android enabled smartphones
  - A desktop computer with a web browser

- **Software Platforms / Technologies**
  - Microsoft Windows Azure
  - Android SDK
  - iPhone SDK
Testing

• Lots of input on design of mobile app from client contact.
• Going through use cases multiple times.
• Having client contact go through the use cases multiple times.
• Distribute development versions to TechSmith employees for testing and feedback.
Risks

• Unknown results if multiple users manipulate an image simultaneously
  ▪ Mitigation: Discuss possible solutions with client contact and within our team

• Sending data from a mobile phone to an Azure server.
  ▪ Mitigation: Create a simple application to accept data from mobile phones and store it on the server.

• Figuring out the Android SDK and java for Android
  ▪ Mitigation: Go over as much documentation and tutorials as possible, and write simple apps.

• Making sure the Android app is compatible with different android devices.
  ▪ Mitigation: Test on other phones than the test phone given to us by TechSmith.

• Staying on the same page as client contacts.
  ▪ Mitigation: Constant contact between us and the client contact so we can deliver the product they want.