

**MICHIGAN STATE**  
**UNIVERSITY**

# Beta Presentation

## WhiteCaps

[The Capstone Experience](#)

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*From Students...  
...to Professionals*

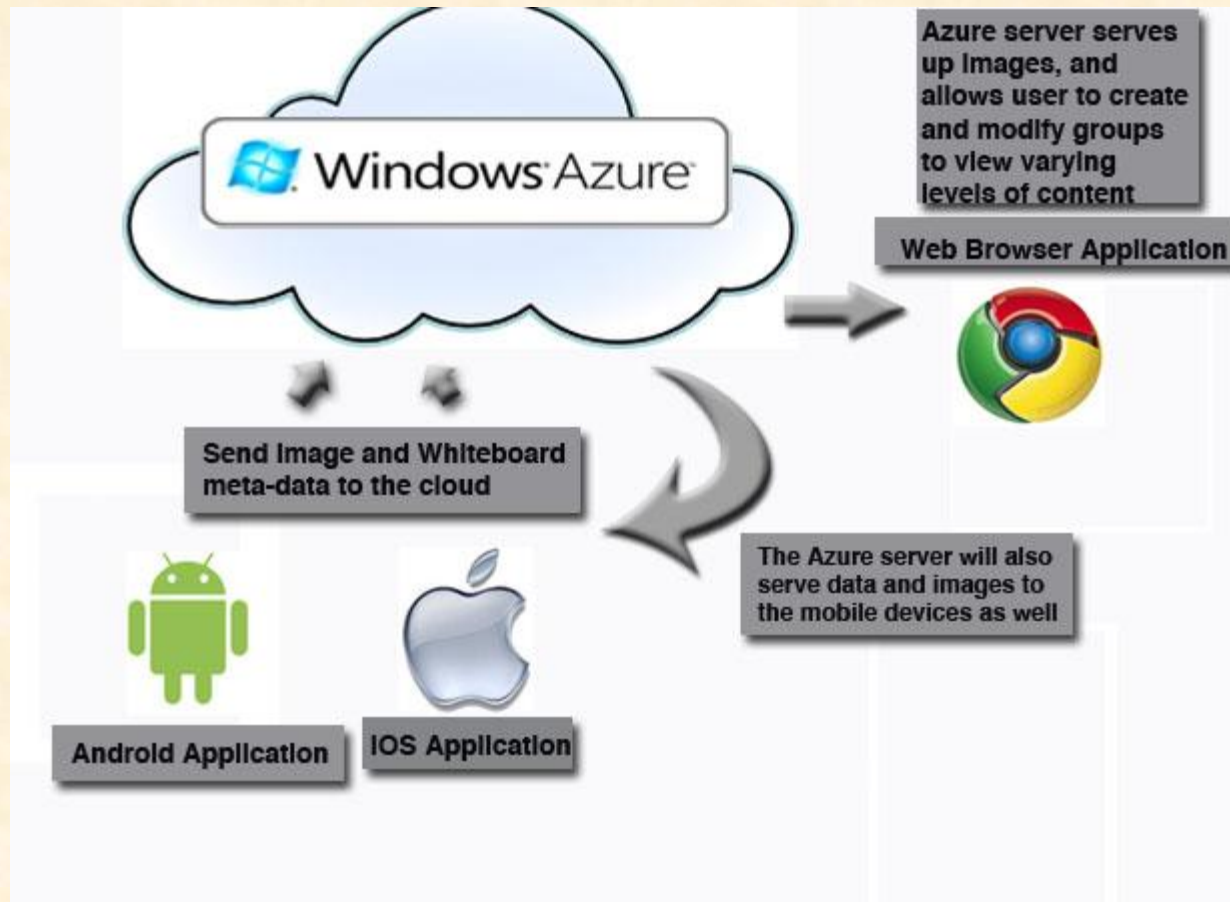
# Project Overview

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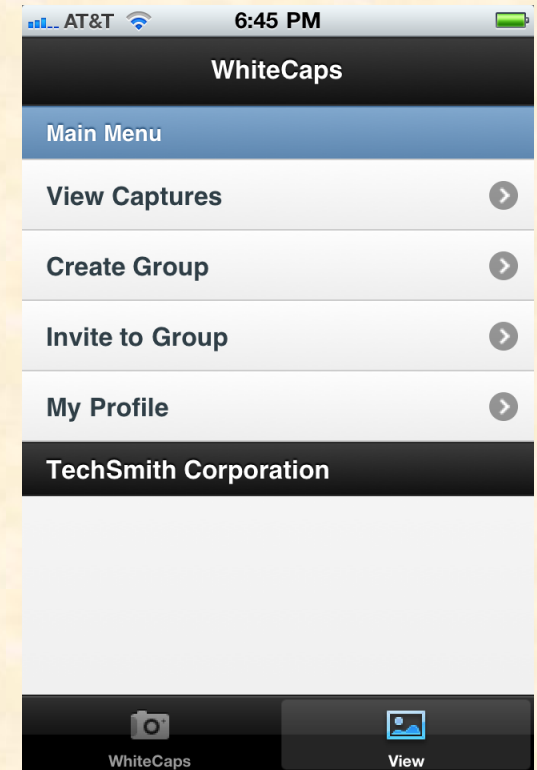
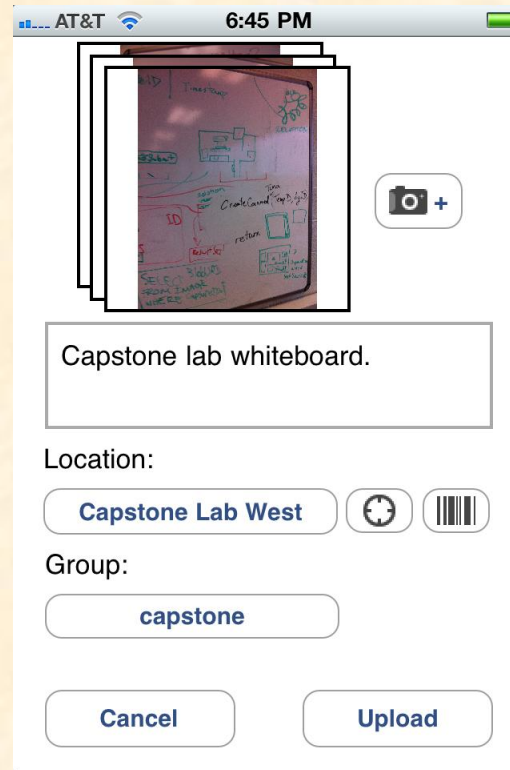
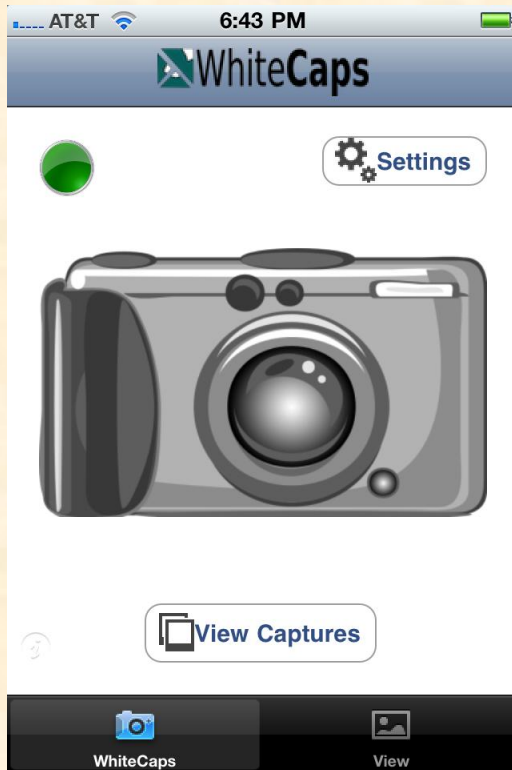
- WhiteCaps
- Mobile devices that capture whiteboards and other information
- Cloud to hold whiteboard images and metadata
- Web client to manage user profiles and whiteboard captures as stored on the cloud



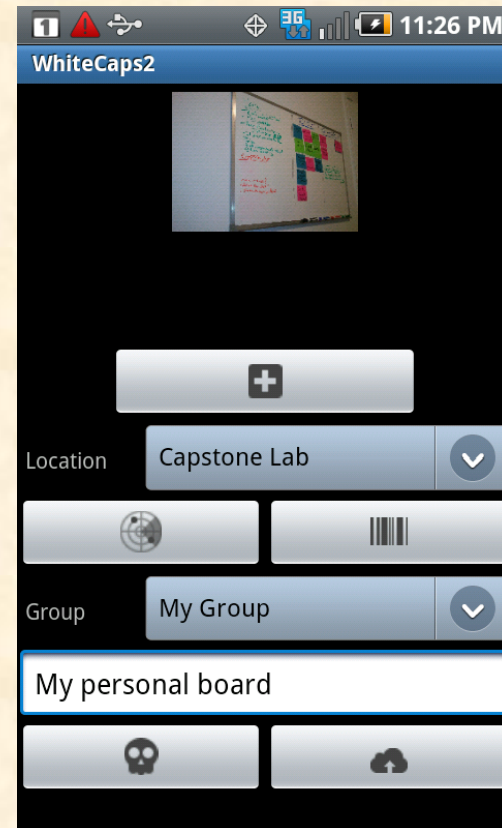
# System Architecture



# iPhone Application



# Android Application



# Web Application

The screenshot displays the WhiteCaps web application interface. At the top, a dark blue header contains the WhiteCaps logo on the left and the text "Welcome, Rob! [ Logout ]" on the right. Below the header is a dark grey navigation bar with "Home" and "About" buttons. The main content area is white and features a "Home" heading. On the left side, there is a vertical menu with links for "My Caps", "My Groups", and "Whiteboards". The central part of the page is titled "HERE ARE SOME RECENT UPLOADS!" and displays four thumbnail images of whiteboards and a laptop screen.

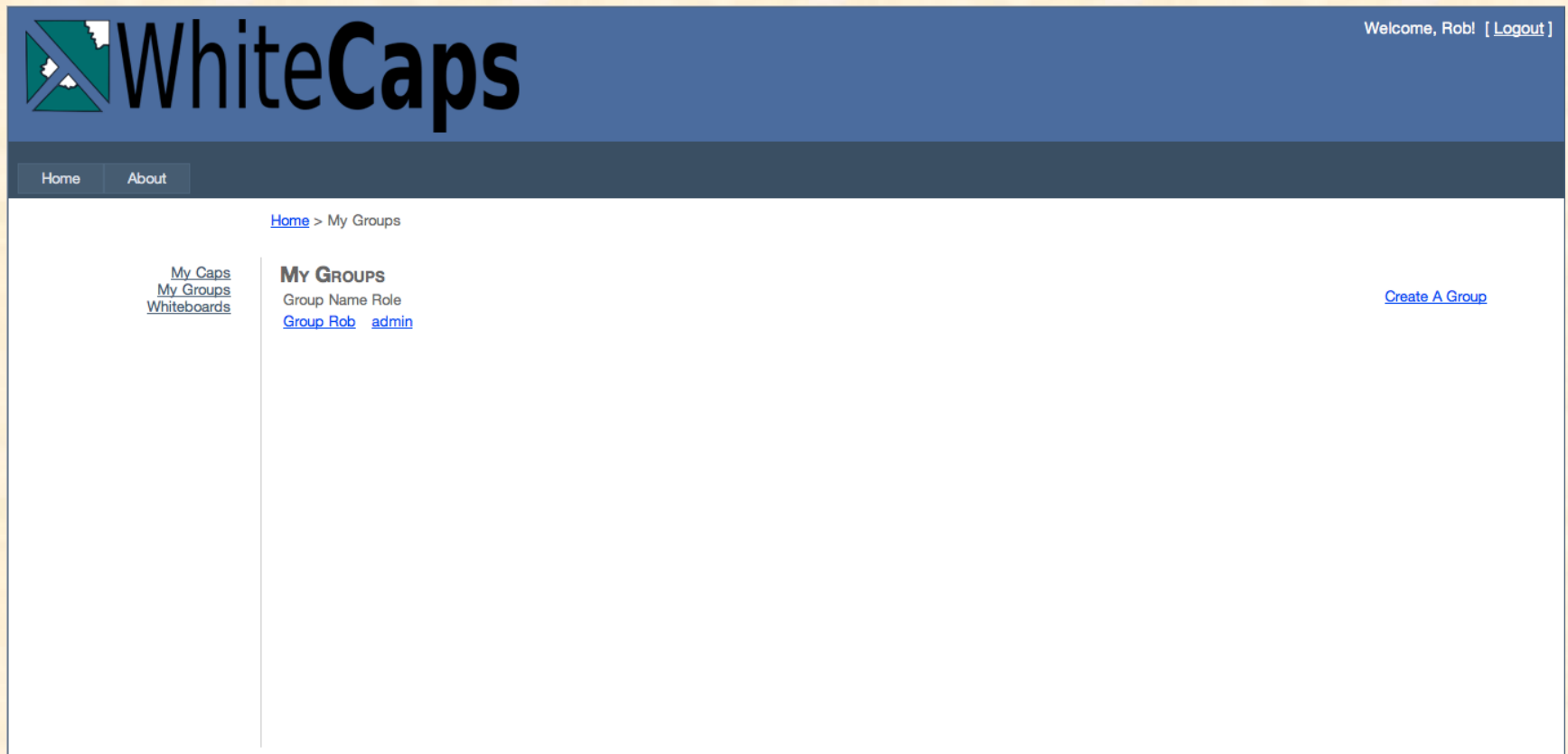


# Web Application

The screenshot displays the WhiteCaps web application interface. At the top left is the WhiteCaps logo, which consists of a green square with a white 'X' and a white mountain peak. To the right of the logo, the text 'WhiteCaps' is written in a large, bold, black font. In the top right corner, the text 'Welcome, Rob! [ Logout ]' is displayed. Below the logo and navigation links, there is a dark blue header bar containing two buttons: 'Home' and 'About'. The main content area is white and features a breadcrumb trail '[Home](#) > My Caps'. Below the breadcrumb, there is a sidebar on the left with three links: 'My Caps', 'My Groups', and 'Whiteboards'. The main content area is titled 'MY CAPS' and contains two images: a laptop and a whiteboard with handwritten text.



# Web Application



The screenshot displays the WhiteCaps web application interface. At the top, a dark blue header contains the WhiteCaps logo on the left and the text "Welcome, Rob! [ Logout ]" on the right. Below the header is a navigation bar with "Home" and "About" buttons. The main content area features a breadcrumb trail "Home > My Groups" and a left sidebar with links for "My Caps", "My Groups", and "Whiteboards". The central section is titled "MY GROUPS" and contains a table with columns for "Group Name" and "Role". A single row is visible with "Group Rob" and "admin". A "Create A Group" link is positioned to the right of the table.

Welcome, Rob! [ Logout ]

Home About

[Home](#) > My Groups

[My Caps](#)  
[My Groups](#)  
[Whiteboards](#)

**MY GROUPS**

Group Name	Role
<a href="#">Group Rob</a>	<a href="#">admin</a>

[Create A Group](#)



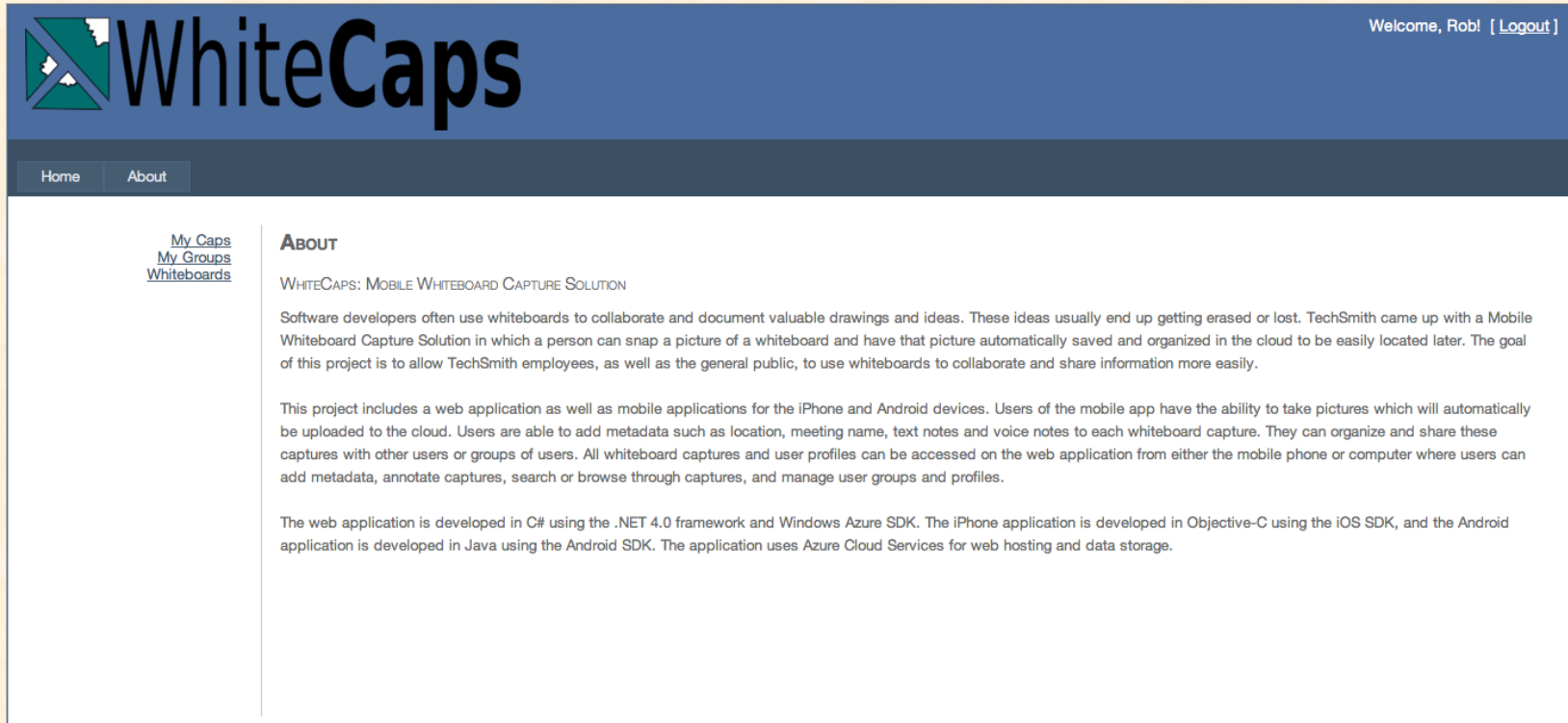


# Web Application

The screenshot shows the WhiteCaps web application interface. At the top left is the WhiteCaps logo, which consists of a green square with a white 'X' and the text 'WhiteCaps' in a large, bold, black font. To the right of the logo, in the top right corner, it says 'Welcome, Rob! [ Logout ]'. Below the logo and welcome message is a dark blue navigation bar with two buttons: 'Home' and 'About'. Below the navigation bar is a white content area. At the top of the content area, it says 'Home > Display Whiteboards'. On the left side of the content area, there is a vertical list of links: 'My Caps', 'My Groups', and 'Whiteboards'. The 'Whiteboards' link is underlined. In the center of the content area, there is a section titled 'DISPLAY ALL WHITEBOARDS' in bold. Below this title, it says 'Click a whiteboard to generate a new QR code.' and there is a link 'Capstone Lab' below that. On the right side of the content area, there is a link 'Create Whiteboard'.



# Web Application



The screenshot shows the WhiteCaps web application interface. At the top, there is a dark blue header with the WhiteCaps logo on the left and a user greeting "Welcome, Rob! [Logout]" on the right. Below the header is a navigation bar with "Home" and "About" links. The main content area is white and features a sidebar on the left with links for "My Caps", "My Groups", and "Whiteboards". The main content area has a section titled "ABOUT" with the following text:

**ABOUT**

WHITECAPS: MOBILE WHITEBOARD CAPTURE SOLUTION

Software developers often use whiteboards to collaborate and document valuable drawings and ideas. These ideas usually end up getting erased or lost. TechSmith came up with a Mobile Whiteboard Capture Solution in which a person can snap a picture of a whiteboard and have that picture automatically saved and organized in the cloud to be easily located later. The goal of this project is to allow TechSmith employees, as well as the general public, to use whiteboards to collaborate and share information more easily.

This project includes a web application as well as mobile applications for the iPhone and Android devices. Users of the mobile app have the ability to take pictures which will automatically be uploaded to the cloud. Users are able to add metadata such as location, meeting name, text notes and voice notes to each whiteboard capture. They can organize and share these captures with other users or groups of users. All whiteboard captures and user profiles can be accessed on the web application from either the mobile phone or computer where users can add metadata, annotate captures, search or browse through captures, and manage user groups and profiles.

The web application is developed in C# using the .NET 4.0 framework and Windows Azure SDK. The iPhone application is developed in Objective-C using the iOS SDK, and the Android application is developed in Java using the Android SDK. The application uses Azure Cloud Services for web hosting and data storage.



# What's left to do?

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- Polish user interface
- More extensive testing
- Improve usability
- Potentially work for stretch goals
- Implement security measures

