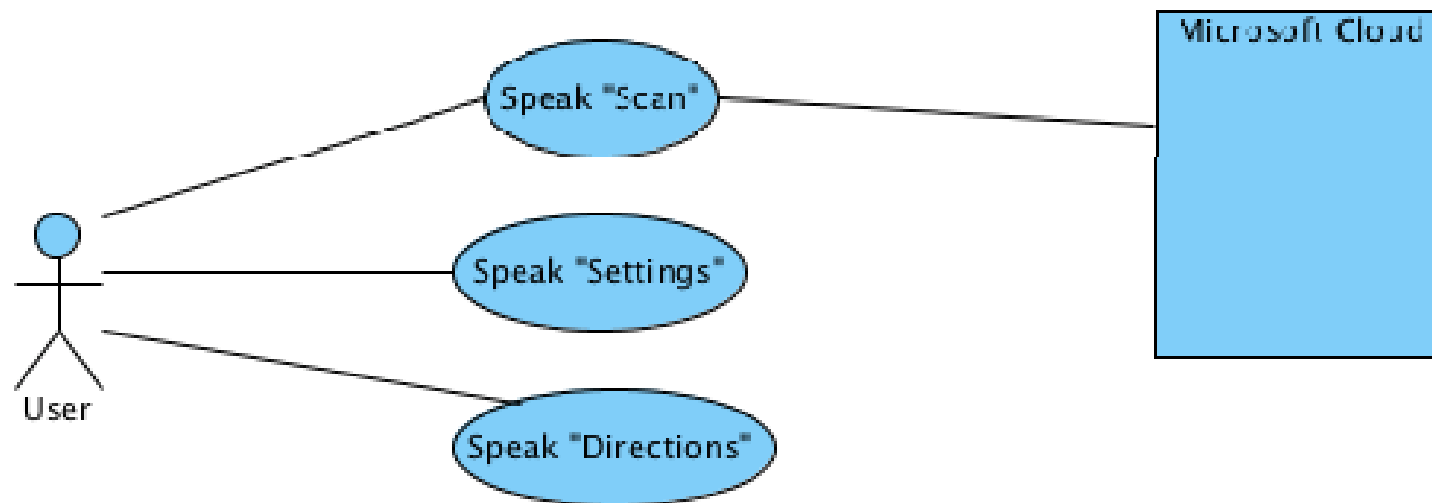# Southern Sweethearts

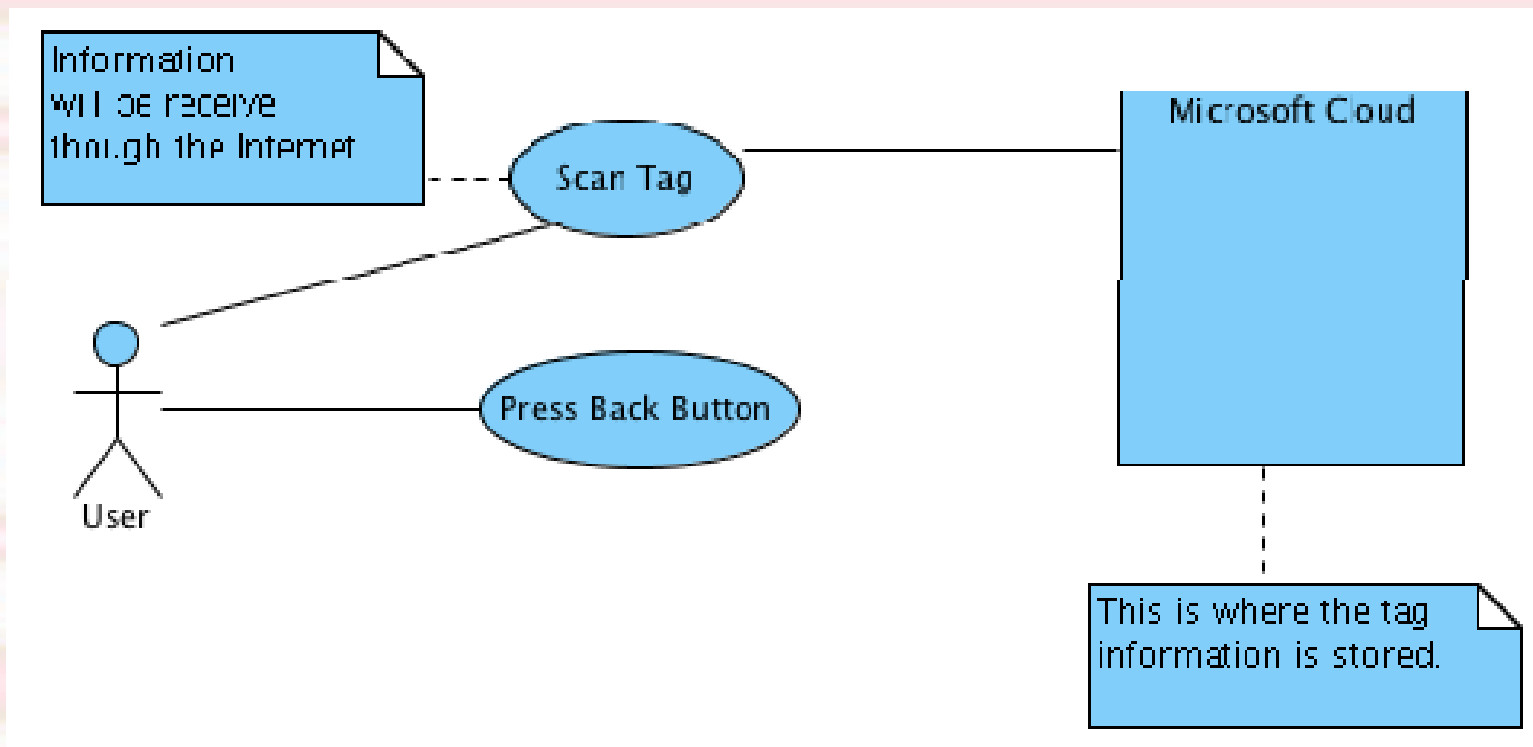# digital eyes

Elizabeth Williams

Leah Boling

Andrea Torske

Melissa Bowman
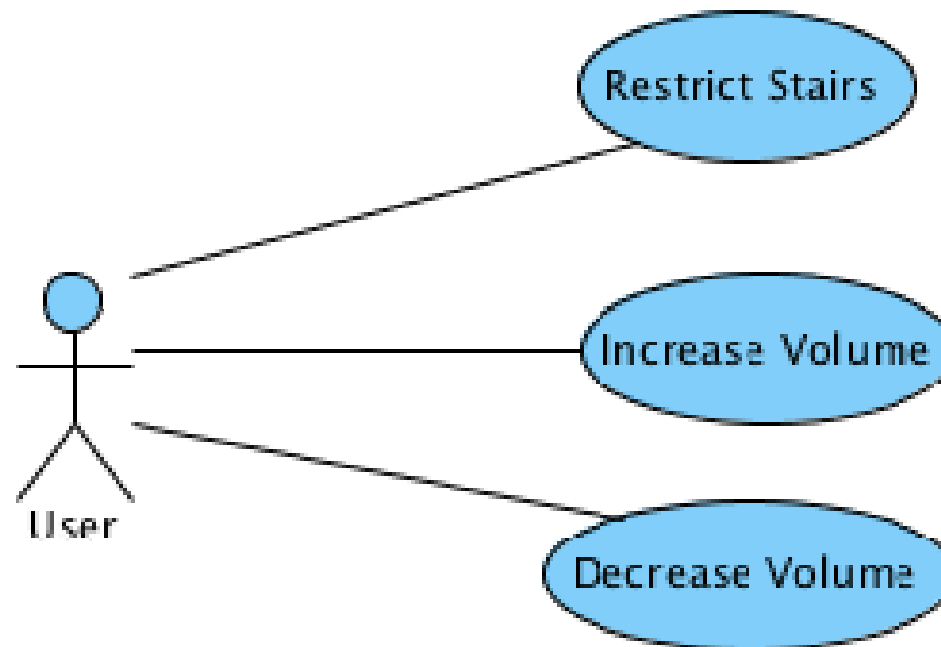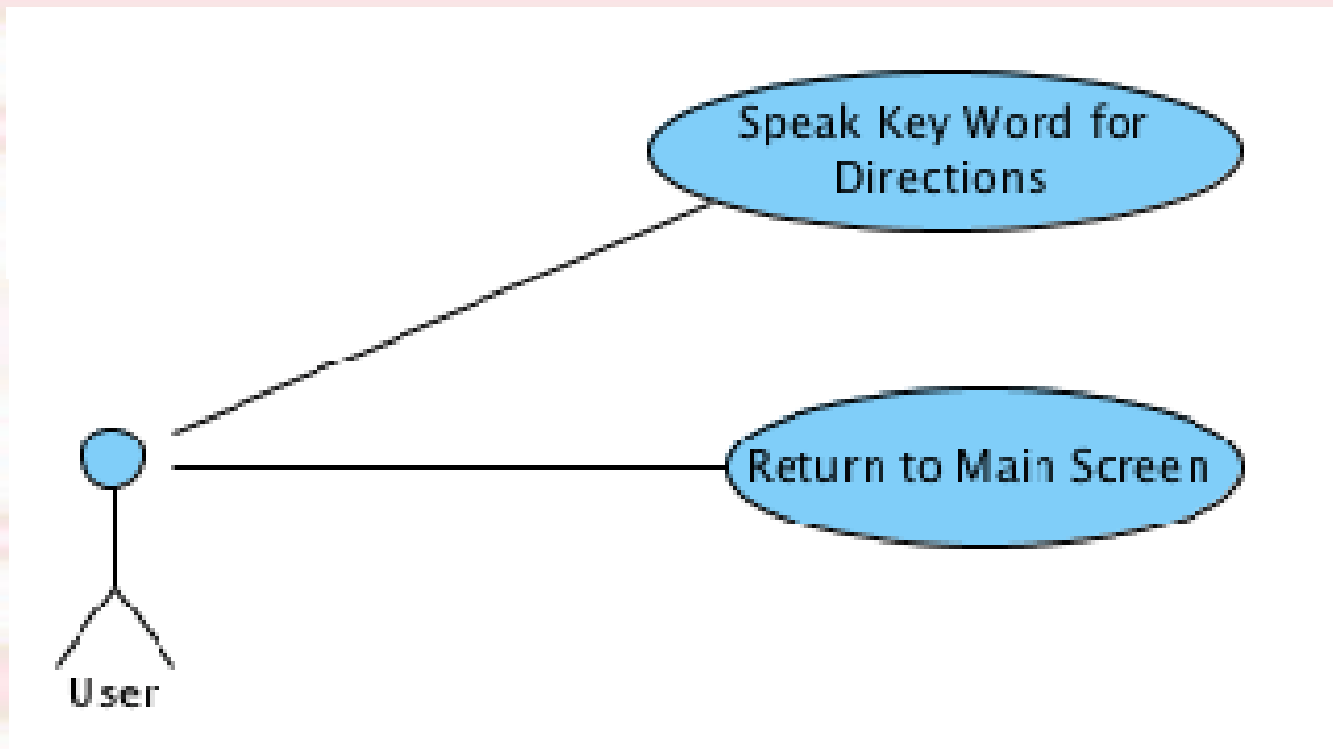
High Level Use Case Diagram

Speak "Scan" Use Case Diagram

Speak "Settings" Use Case Diagram

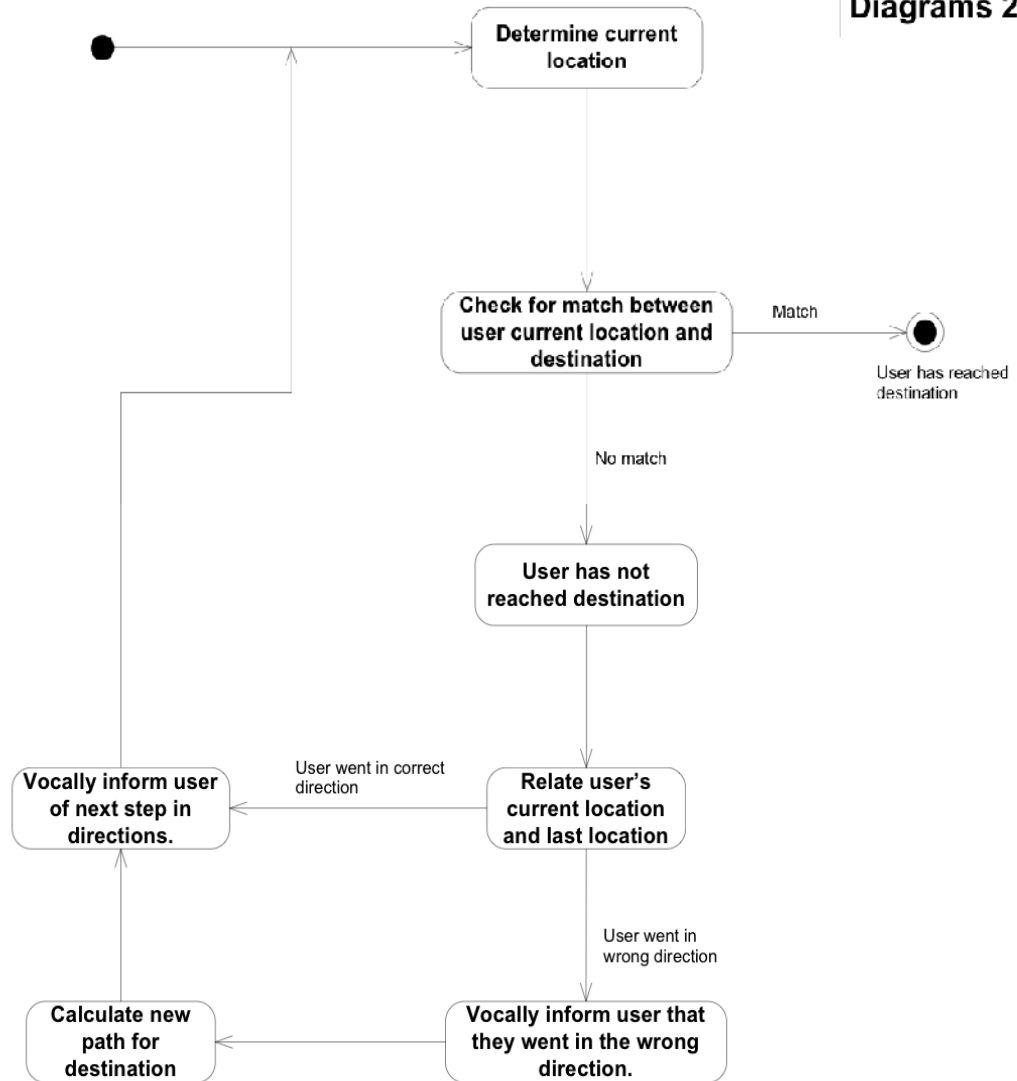# Speak "Directions" Use Case Diagram

Activity Diagram 1

Setting Destination

Match Incorrect

User vocally identifies destination (preceded by voice command 'destination')

App searches database for possible matching destination

No Further possible matches

Application
Cannot direct user

App presents most likely (new) match

Match
Correct

Current is
Last location

User asked if last known location is their current location

Proceed

Current is not
Last location

Tag found

Load information associated with tag

Scan for Microsoft Tag (voice command 'scan')

User asked to scan a nearby Microsoft Tag

Tag not found

Overall Activity Diagram

Activity Diagram for Path Calculation

Activity Diagram for Determining Current Location of User
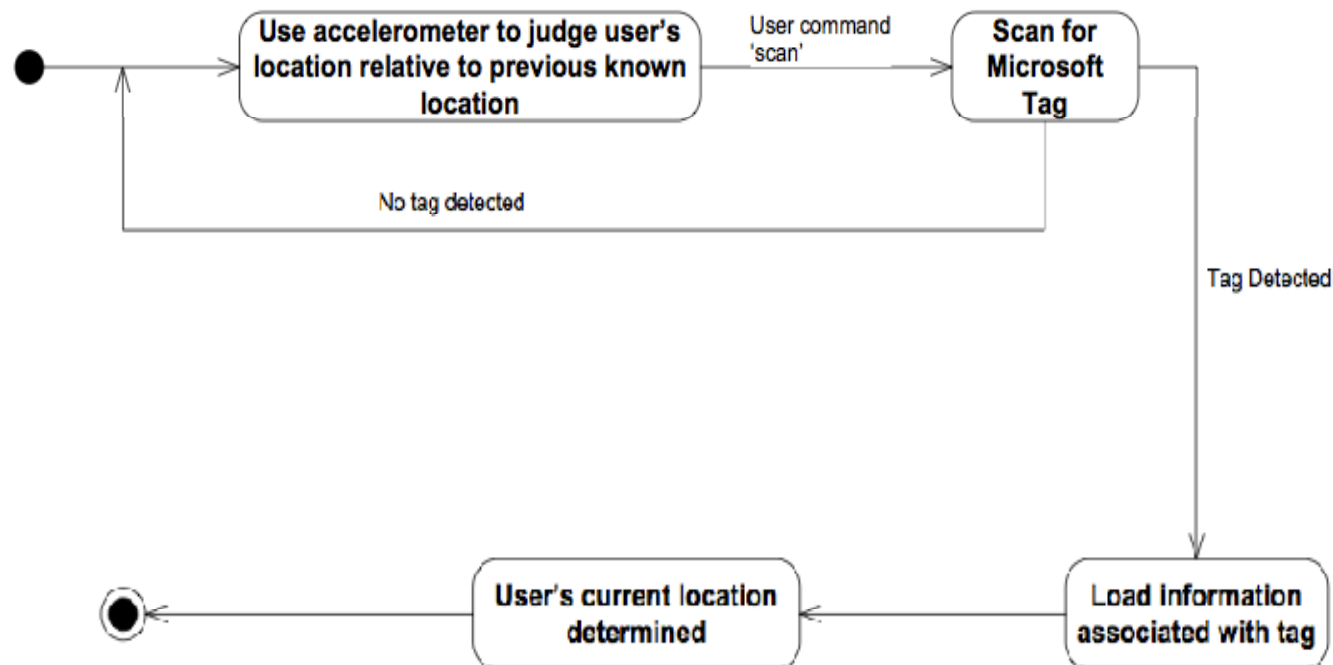
Classification of Functional Requirements

Functionality	Type
Gather information from Microsoft Tags	Essential
Read free-form text from Microsoft Tag scan	Essential
Speech to text capabilities	Essential
Text to speech capabilities	Essential
Use of accelerometer to determine distance	Desired
Display map of building on home screen	Optional
Ability to generalize for building other than the test building	Desired

Important Dates

03/21/11	Project Design Due	
03/07/11	Windows Phone 7 Round 1	
03/14/11	Software Design Round 2	
03/21/11	Project Design Due	
03/23/11 – 04/09/11	Software Design Voting Period	
03/28/11 – 04/27/11	Windows Phone 7 Round 2	Worldwide Finals Qualifying
04/06/11	Project Progress Demos	
04/11/11	Undergrad Research Poster Competition	
04/22/11	Project Video due	
04/25/2011 – 04/26/11	Implementation due & Final Demos	
07/08/11 – 07/13/11	Windows Phone 7 Round 3	Worldwide Finals

Questions or Comments?