

# Evaluation of a Location-Linked Notes System

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# Location-Aware Applications

- Location as part of context
- Customize behavior depending on context
- Several new genres of applications possible
- How to determine location
  - GPS, RFID, 802.11, SeeVT



# Location-Linked Notes

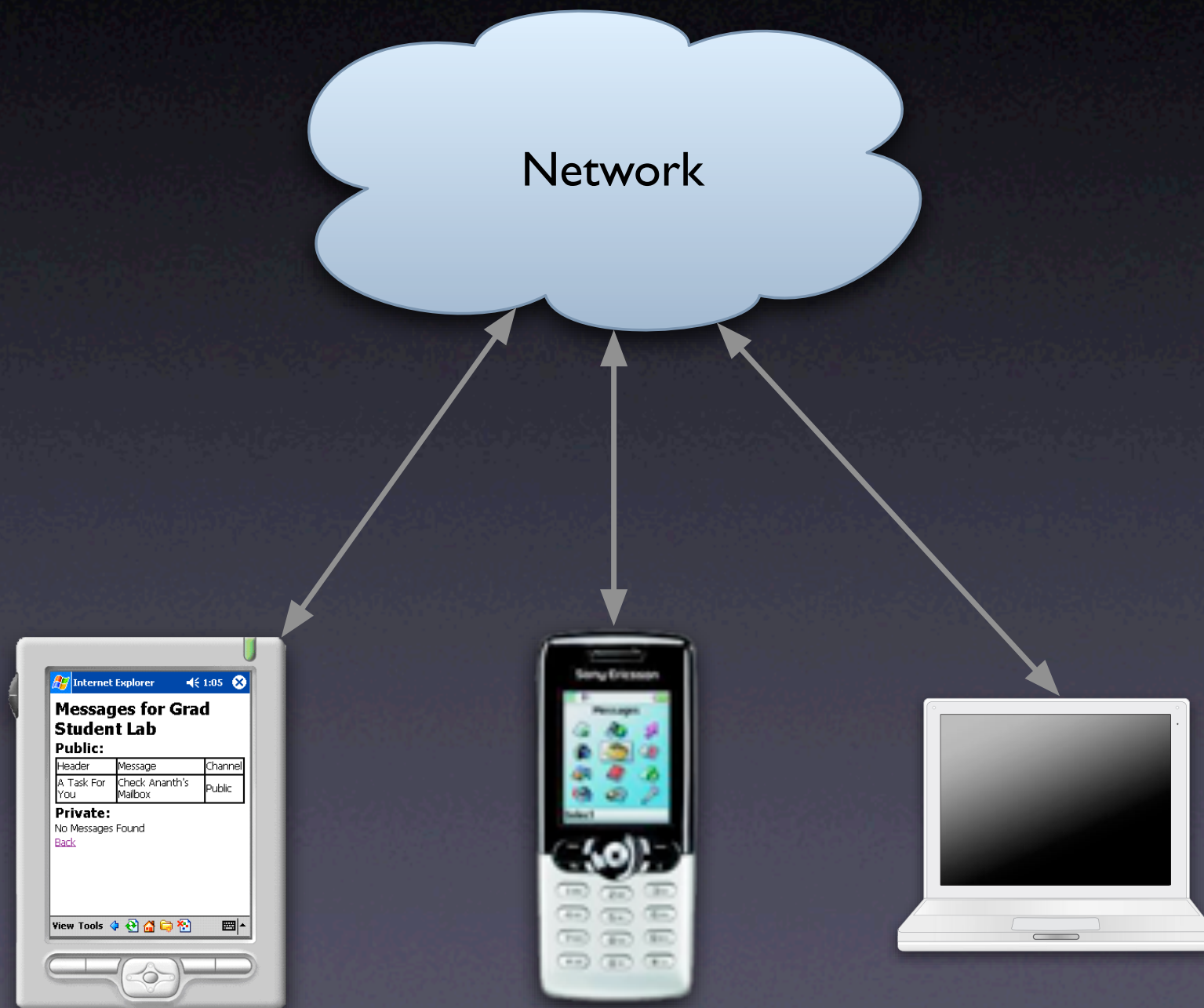
- Messages to others at a given location
- Importance of location
  - Is location always important?
- Importance to a campus community
- Artificial restrictions in prior systems

# Design Factors

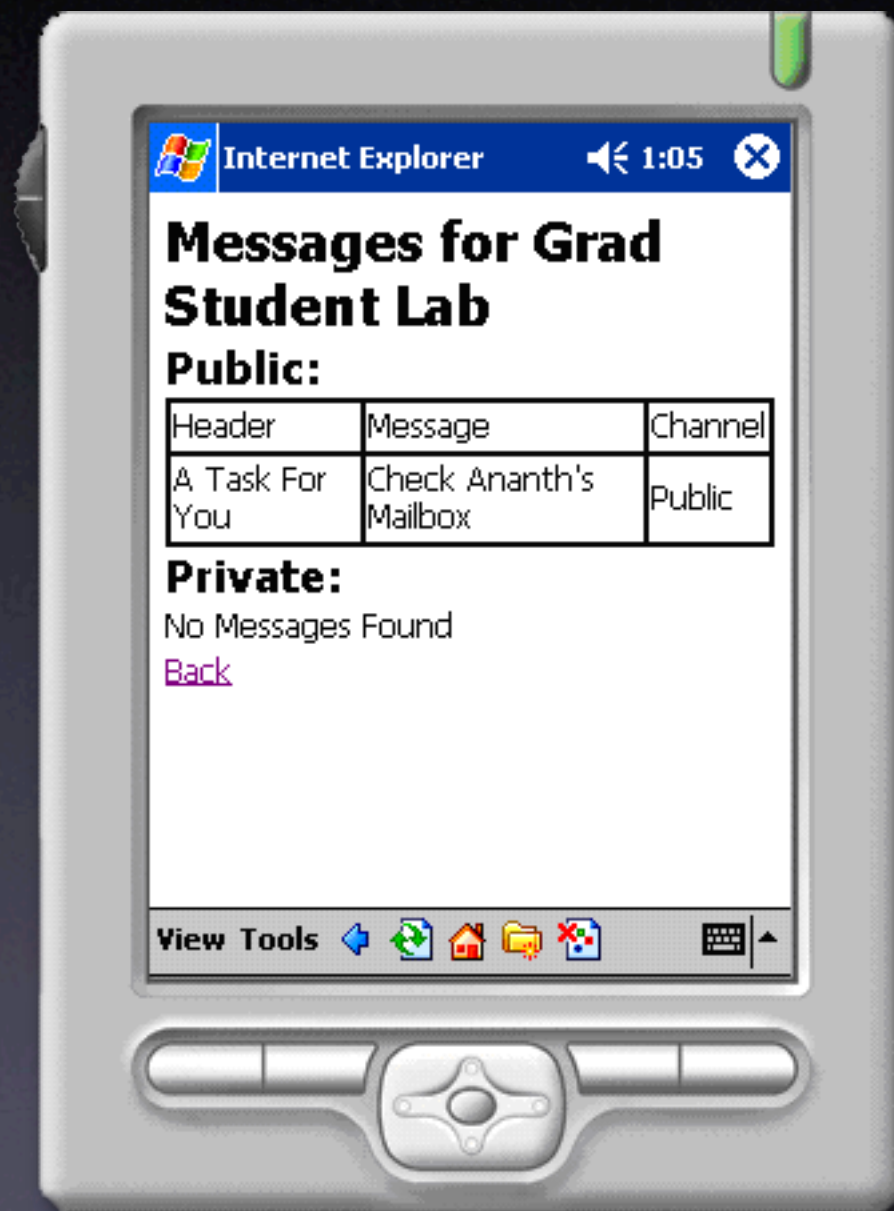
- Domain: public or private (to groups)
- Message expiration
- Messages about a location vs. messages at a location
- Remote versus in-situ authoring
- Remote versus in-situ access
- Push versus pull access strategy



# Architecture



# PDA Interface





# Wizard of Oz

- A prototype that works by having someone behind-the-scenes who is pulling the levers and flipping the switches.
- User does not know that the responses are being generated by a human, not a computer.
- Allows testing of difficult interface concepts before a system is fully working.

# Research Questions

- What are our users' opinions and perceptions of:
  - Remote authoring / In-situ authoring
  - Remote access / In-situ access
  - Push / pull access



# Method: Survey + Study

- Survey to assess potential uses
- Users: Students (5 grad, 1 high-school, 1 middle-school) and a Professor.
- Satisfaction Questionnaire

# Tasks

- 2 at specific location
  - Note at the Grad Lab
  - “Leaving for lunch”
- 2 from any location
  - Note for yourself at the Student Center
  - Check notes at a professor’s door



# Results from Survey

- Most users would use it daily
  - 1 user: weekly
- Notes for oneself are useful only if pushed

# Results from Study

- Users preferred being able to write/access notes from a remote location
- Priority to leave notes for:  
yourself > friends > professors > public



# Findings

- Even in location-aware systems, there is value in remote access
- Need not be there to retrieve messages
- Need not be there to leave messages

# Questions

