lostNfound

CS 528 Mobile and Ubiquitous Computing

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Motivation

Lost items cost Americans $5,591 over a lifetime!

Motivation - continued

- Can be costly!
- Time lost searching
- May not be replaceable
- Data is hard to replace
- Emotional value of items or contents
Sadness caused by lost items

- Bank or credit card
- Laptop
- Smartphone
- ID
- Purse/wallet
Motivation - Communication Gap

- Extra resources required
- Space considerations
- Privacy concerns
Related Work

- **Pixie** - phone app to keep items found
- **Mozy** - backup devices so data is never lost
- **Lost or Found**
- **Have it Back**
Methodology - Goals

- Automatic tagging of item descriptions
- Automatic marking of item location
- Improve communication
- Quick and easy to use!
Methodology - Modules Used

- Camera (4 points): take a picture or video of item
- Location (4 points): Pin on a map where item was found
- SMS system (4 points): Subscribe to a notification to hear if item is found, based upon keywords
- Mobile vision (6 points): automatic tag generation
- Firebase (4 points)
- 5 screens (4 points)
- 22 points total!
Implementation Plan - Found Item

Lost

Found

Map location
- Choose new location

Automatic tags, optional additional tags

Drop off location
Contact me
Implementation Plan - Lost Item

- Lost
- Found
- Keyword
- Location
- Radius
Implementation Plan - Lost Item

- Image
- Description

OR

- Pick up location (e.g., police station or library)
- Contact information
Timeline

- **Week 1**: Design
- **Weeks 2-4**: Coding
- **Week 5**: Testing & Validation
Evaluation Plan

- Testing by friends and family
- Independent third party evaluation
- Timed analysis
- Ease of use
- Bug testing
References


● “Mozy”, https://mozy.com/about/news/reports/lost-and-found/


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● “Lost or Found”,

● “Lost and Found”, https://www.youtube.com/watch?v=K4KgnNI0vO4

● “9 Proven Ways To Narrow The Communication Gap”,
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References - continued

- “Searching for something to do next Saturday” http://arcadiawindber.com/searching-for-something-to-do-next-saturday/
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