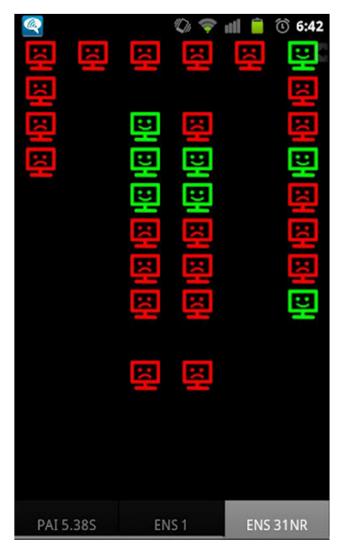
CS378 - Mobile Computing

App Project Overview

App Project

- Teams of 2 or 3 students
- Develop an Android application of your choosing subject to instructor approval
- Application must run on class dev phones, API Level 15



App Milestones

- App Proposals
 - written 10/1
 - posters 10/1, 10/3, or 10/5 depending on assigned poster session
- Teams and app choice, 10/8
- Paper prototypes, 10/15
- Alpha Release, 11/9
- Alpha Evals, 11/19 (Individual)
- How to, 11/26 (Individual)
- Beta Release, 11/30
- Web ad, 12/5
- Beta Evals, 12/7 (Individual)

App Proposals

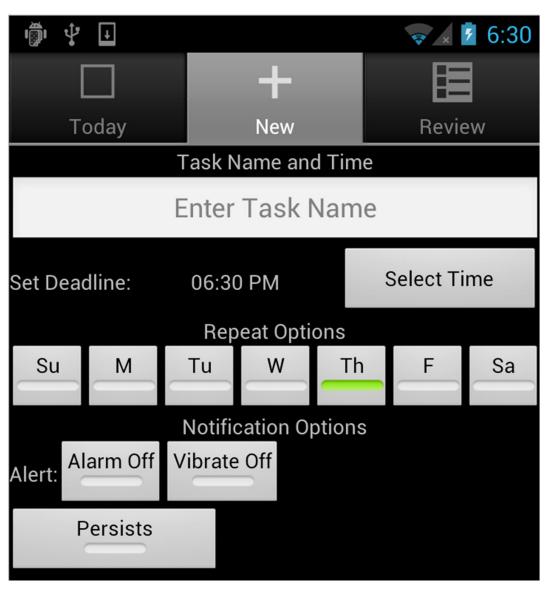
- individual assignment
- every student proposes two applications
- one service oriented, one profit oriented
- written due in class on 10/1
- posters due day of assigned session
 - -10/1, 10/3, 10/5
 - compelling reason for a given day, email meASAP
- Posters polished, not hand drawn

Team and App Choice

- By 10/8 via email to Mike
- App requires instructor approval
- teams of 2 or 3 people
- solo students will be grouped together at random or assigned to a team

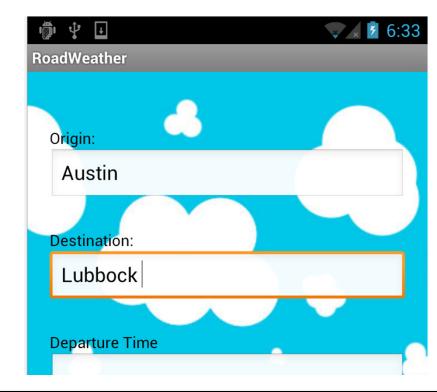
Alpha Release

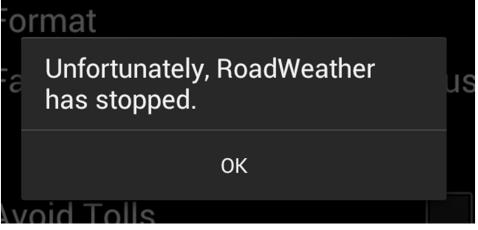
- 11/9
- Focus on BasicUI andFunctionality
- turn in APK and readme file



Evals

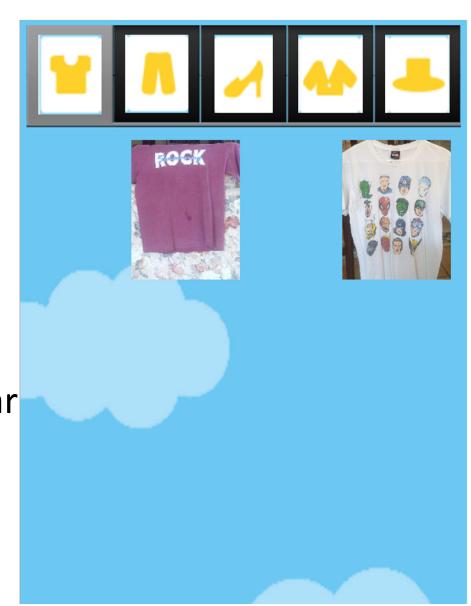
- For alpha and Beta releases each student reviews 3 other apps
- feedback provided to team
- good, bad, ugly, suggestions, ERRORS





Beta Release

- 11/30
- Fully Functional
- Polished
 - UI polished
 - icon
 - graphics if necessary
 - menu options / action bar
 - sound / feedback
 - persistence
 - responsiveness



Web Ad 12/5

LET'SMEETHERE

Home test

Walton Choy

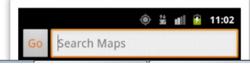
Description

Plan an event with your friends by searching for a place and customizing event name, time, and description.

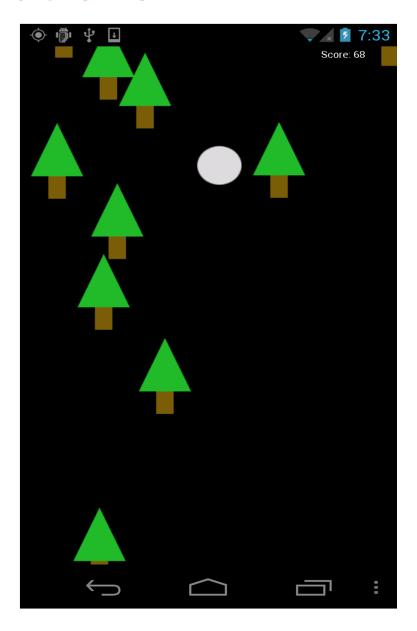
Major Features

- Functional use of Google Map
- Creation of an event (name, description, time, location)
- Ability to search for nearby places (restaurants, coffee, etc.)
- Ability to physically type in address of meeting
- Ability to place pin on map to find meeting place
- Ability to send out event to multiple people (via SMS or email)

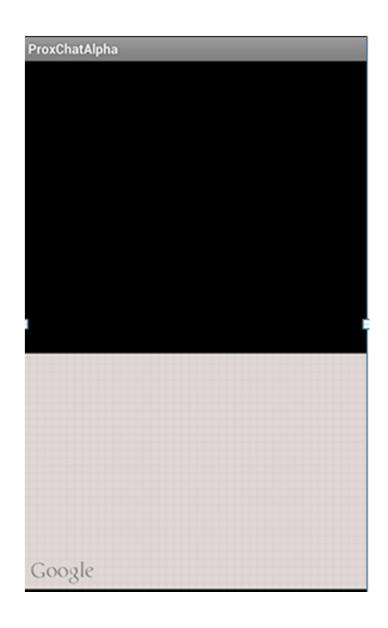
Screenshots



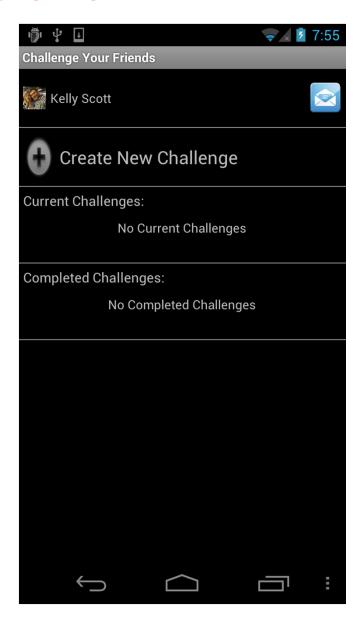
- Based on my own experience (and bias)
- Pick something you are interested in
- ... but that is reasonable!
- Better to have simple idea / app that can be improved and extended
- .. than a non functioning pile of garbage



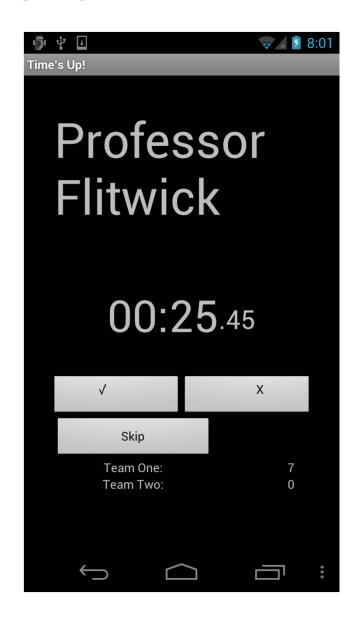
- Games are okay
- Apps designed for kids are okay
- Okay to use APIs / libraries
 - but no silver bullet
 - integration is hard and time consuming
- Don't try to learn new technologies
 - if you want your own web server, but don't know how to set one up, now is NOT the time to learn



- Avoid plain graphics
- Avoid social media
 - probably my bias, but kind of boring and high barriers to entry
 - sharing stuff to social
 media okay, but should not
 be focus of app
- Avoid apps with lots of initial data entry

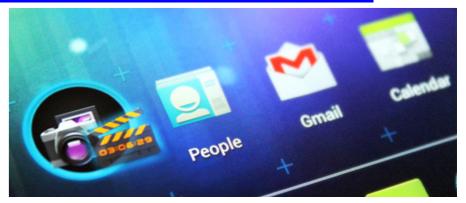


- Use features of the mobile device such as:
- Location / Maps
- Sensors
- Gestures / Touch Screen
- Contacts
- Camera
- Network
- Available applications / services



Android Design Guidelines

- Create Vision!
- Enchant Me!
- Simplify My Life!
- Make ME Amazing!
 - http://developer.android.com/design/index.html

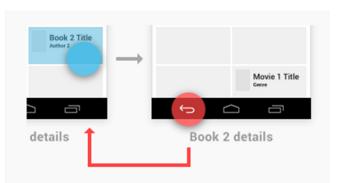


Create Vision

- Delight me in surprising ways
- Real objects are more fun than buttons and menus
- Let me make it mine
- Get to know me

Simplify My Life

- Keep it brief
- Pictures are faster than words

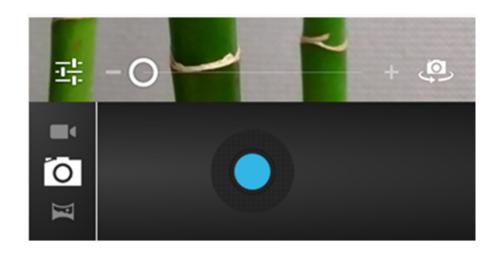


- Decide for me but let me have the final say
- Only show what I need when I need it
- I should always know where I am
- Never lose my stuff
- If it looks the same, it should act the same
- Only interrupt me if it's important

Make Me Amazing

- Give me tricks that work everywhere
- It's not my fault
- Sprinkle encouragement
- Do the heavy lifting for me
- Make important things fast

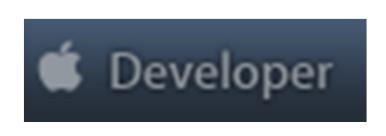
Turn off your phone, remove the battery, and carefully insert your SIM card with the gold contact side down. The cut-off corner should end up furthest away from the battery.



Apple App Guidelines

- The Display Is Paramount, Regardless of Its Size
- Device Orientation Can Change
- Apps Respond to Gestures, Not Clicks
- People Interact with One App at a Time
- Preferences Are Available in Settings
- Onscreen User Help Is Minimal
- Most iOS Apps Have a Single Window

http://tinyurl.com/3yj7b5y



Apple Human Interface Principles

- Aesthetic Integrity
- Consistency
- Direct Manipulation
- Feedback
- Metaphors
- User Control

User Experience Guidelines

- Focus on the Primary Task
- Elevate the Content that People Care About
- Think Top Down
- Give People a Logical Path to Follow
- Make Usage Easy and Obvious
- Use User-Centric Terminology
- Minimize the Effort Required for User Input
- Downplay File-Handling Operations
- Enable Collaboration and Connectedness
- De-emphasize Settings

User Experience Guidelines

- Make Search Quick and Rewarding
- Entice and Inform with a Well-Written Description
- Be Succinct
- Use UI Elements Consistently
- Consider Adding Physicality and Realism
- Delight People with Stunning Graphics

