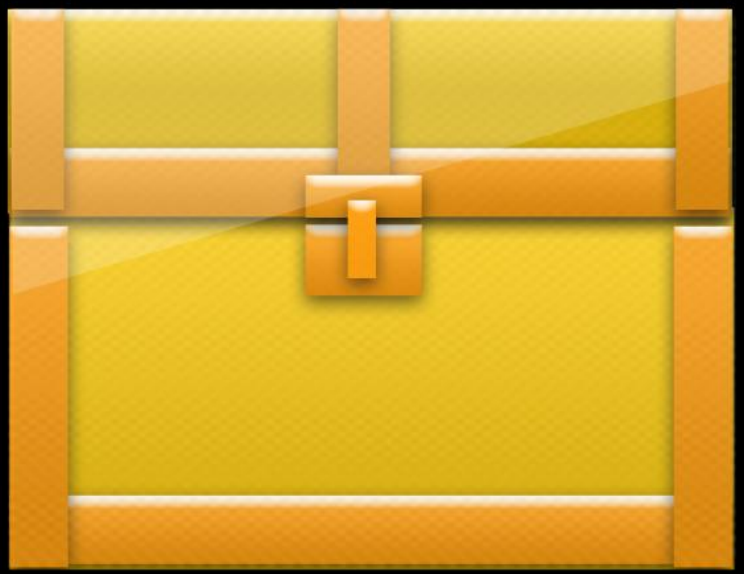
CampuSeek



"The Ultimate Weight-Loss Adventure"

Steve Hanson | Scott Lee | Fernando Salazar | Prince Woodrow

Contents

- Introduction
- Alternatives
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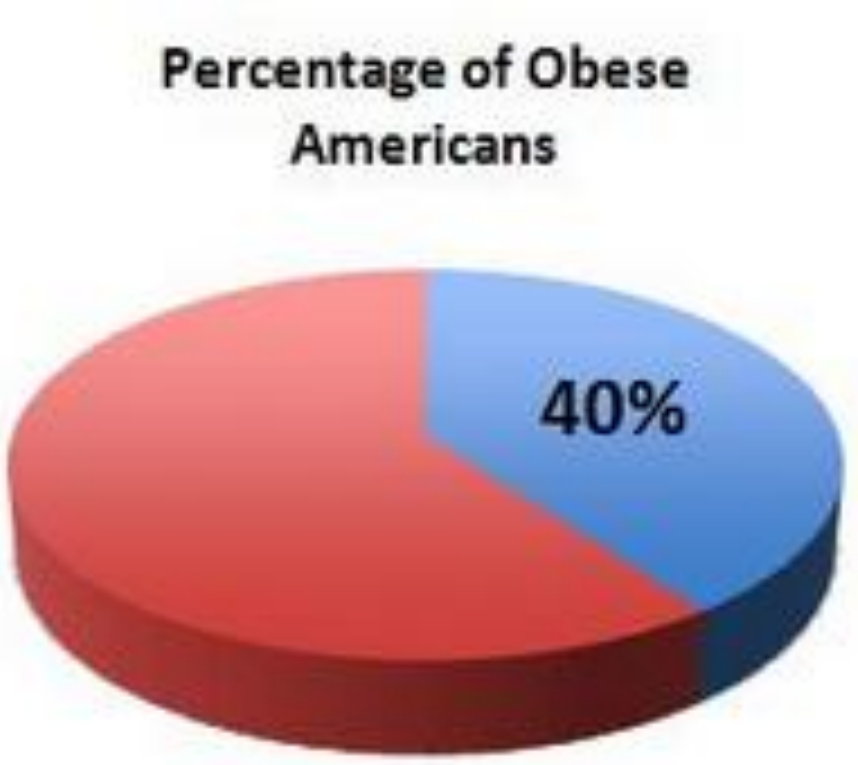
- Team Management
- Social, Ethical, Political, Economic Concerns
- Results

Problem Background

- Obesity is rampant and rising
- Working out can be difficult, straining
- This leads to a lack of motivation to work out
- We want to promote an active lifestyle, provide motivation



Need Statement

- There is a need to promote healthy activity among students in a way that is fun, so that participants are more motivated to continue a workout regimen

Goal

- Our goal is to create a mobile, collaborative social game that will encourage users to be active and give them motivation to continue to pursue an active lifestyle while having fun

Objectives

- Should be unique
- Easy for user to use
- Charts need to be self-explanatory
- Efficient/fast interface
- Seamlessly integrate mobile platform with collaborative environment
- Should be FUN!

Considered Alternatives

- Platform
  - Facebook vs. own social site
  - Android vs. iPhone
- Motivational style
  - Game format
    - Running race
    - Scavenger hunt
  - Results-based format
    - Workout tracker

Considered Alternatives

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    - **Scavenger hunt**
  - Results-based format
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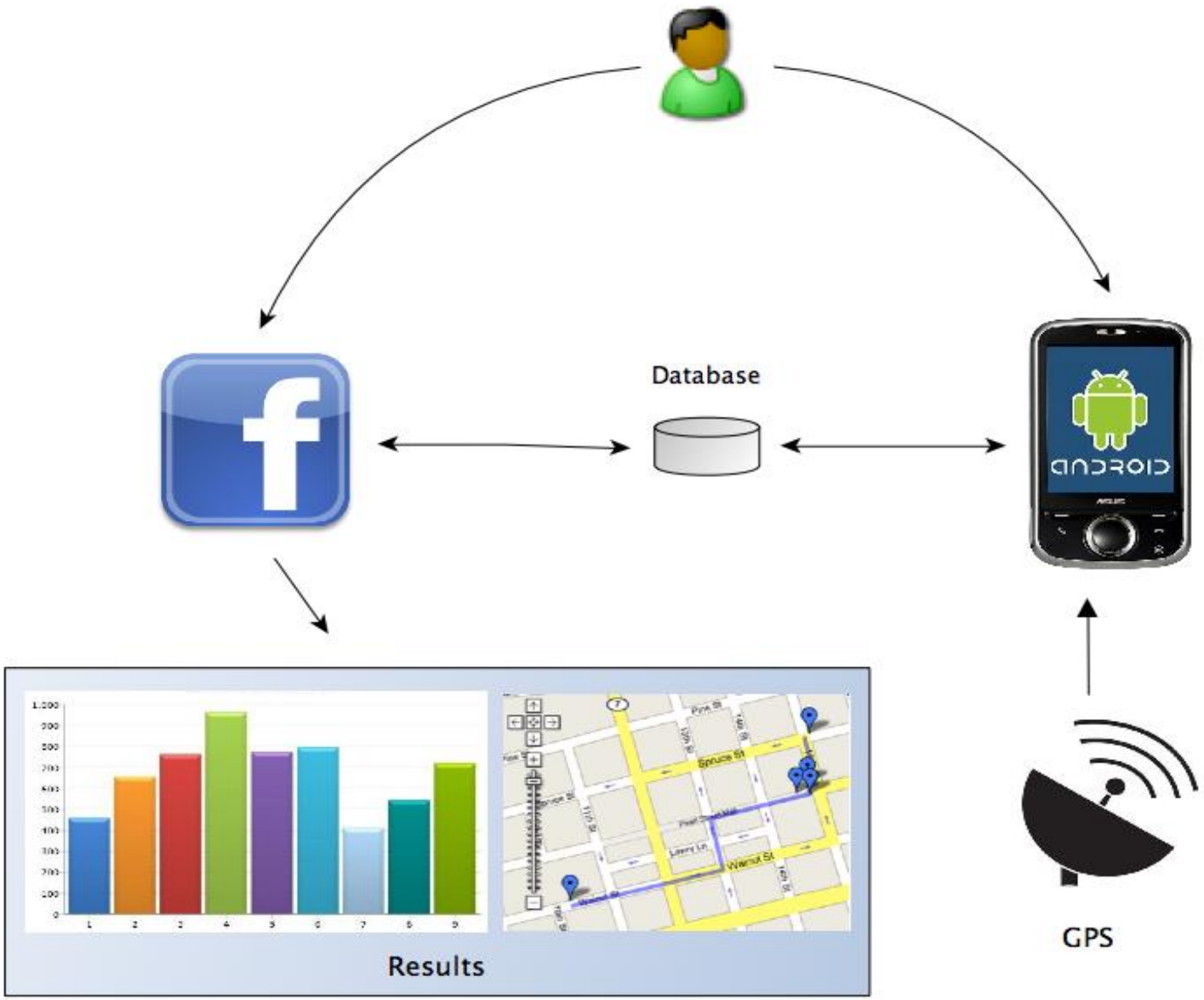
Design Constraints and Feasibility

- GPS necessary
- Battery life concerns
- Physically holding phone while playing
  - User may not want to hold phone while walking/running

System Description

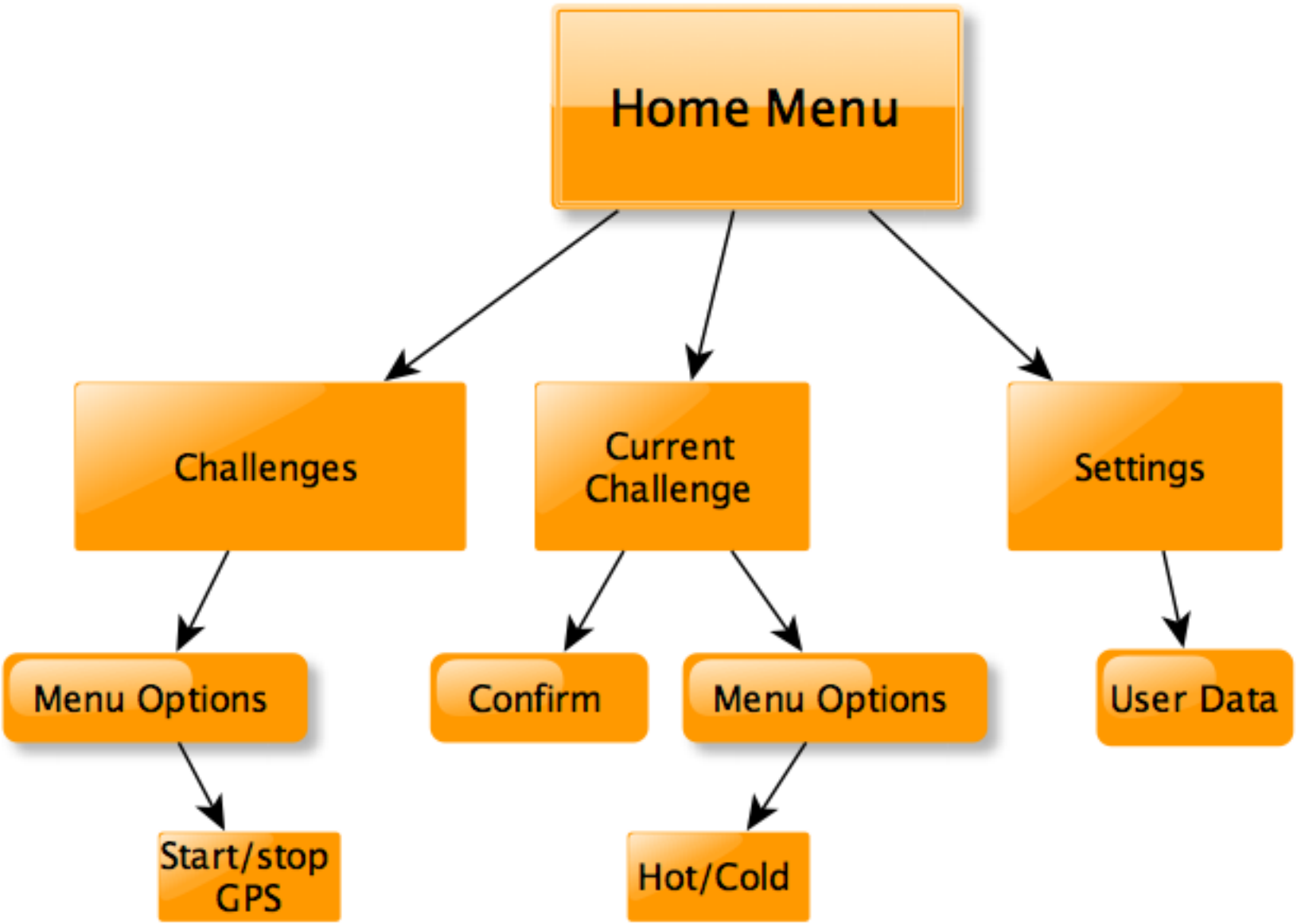


Android Design Specs

- Java based
- Tracks user location using GPS in background service
- Updates central database with user information
- Facebook Single Sign-on

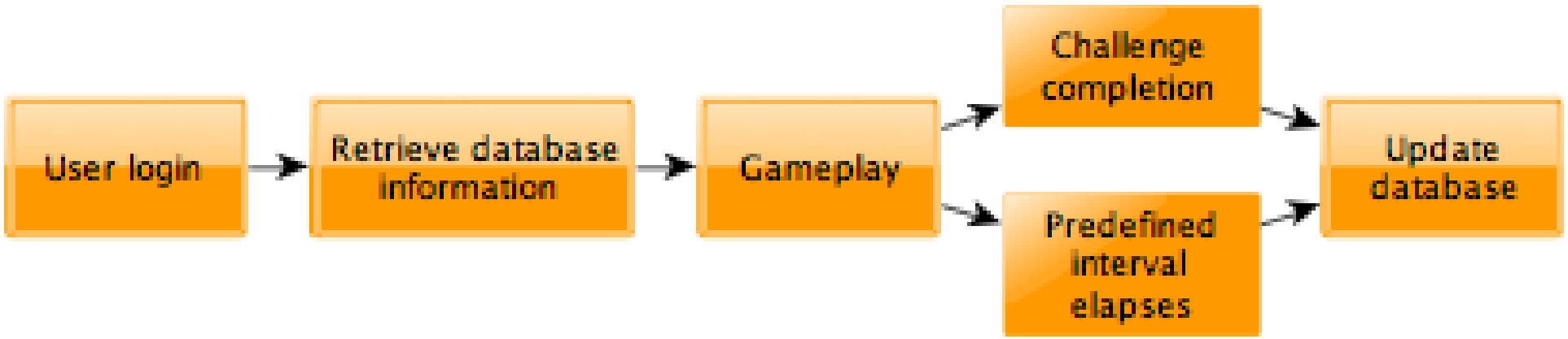
System Description

- Android Interface



System Description

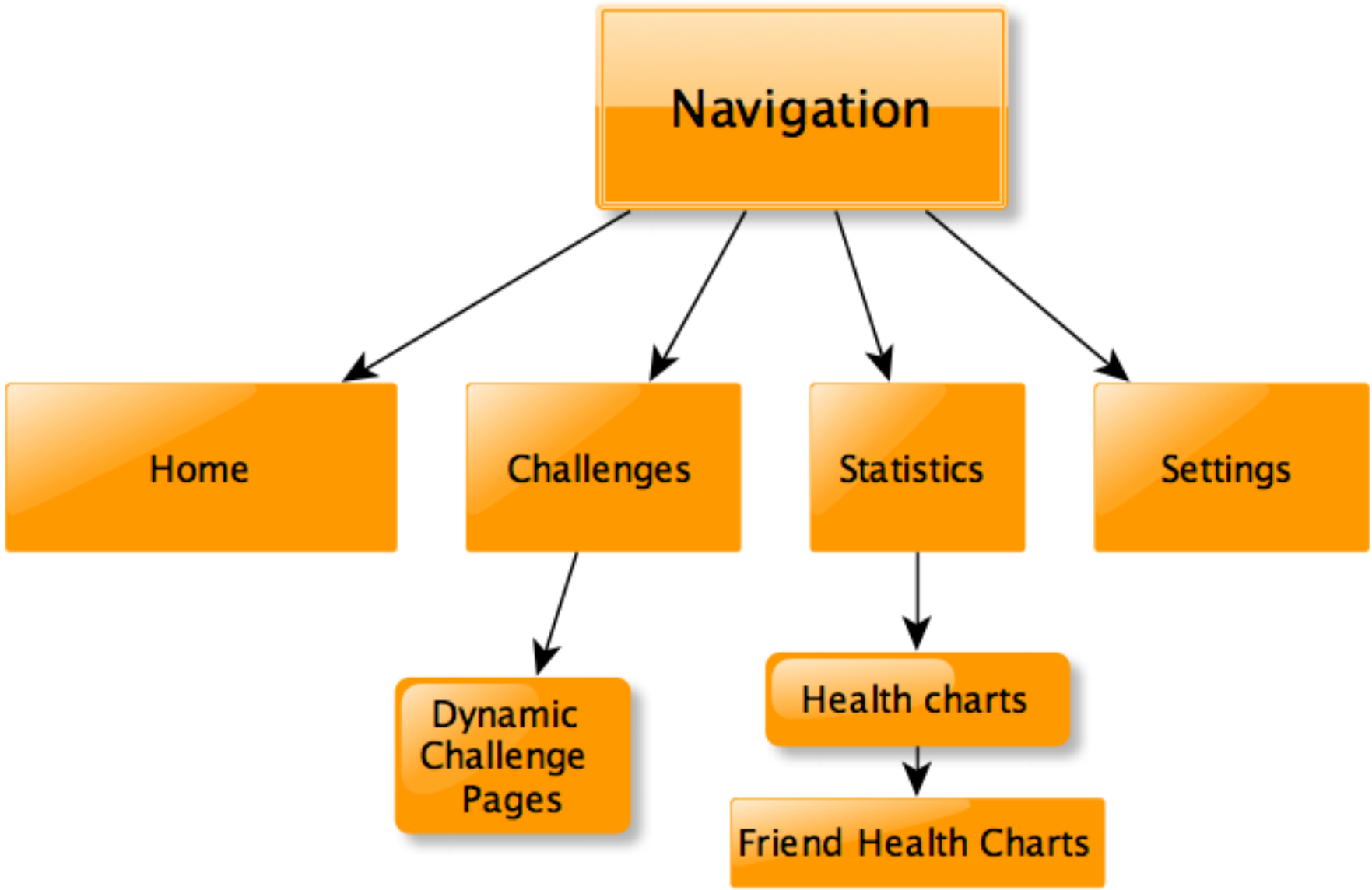
- Android Data Handling



- Database updates include:
  - Updated distance, hotter/colder time, challenges completed

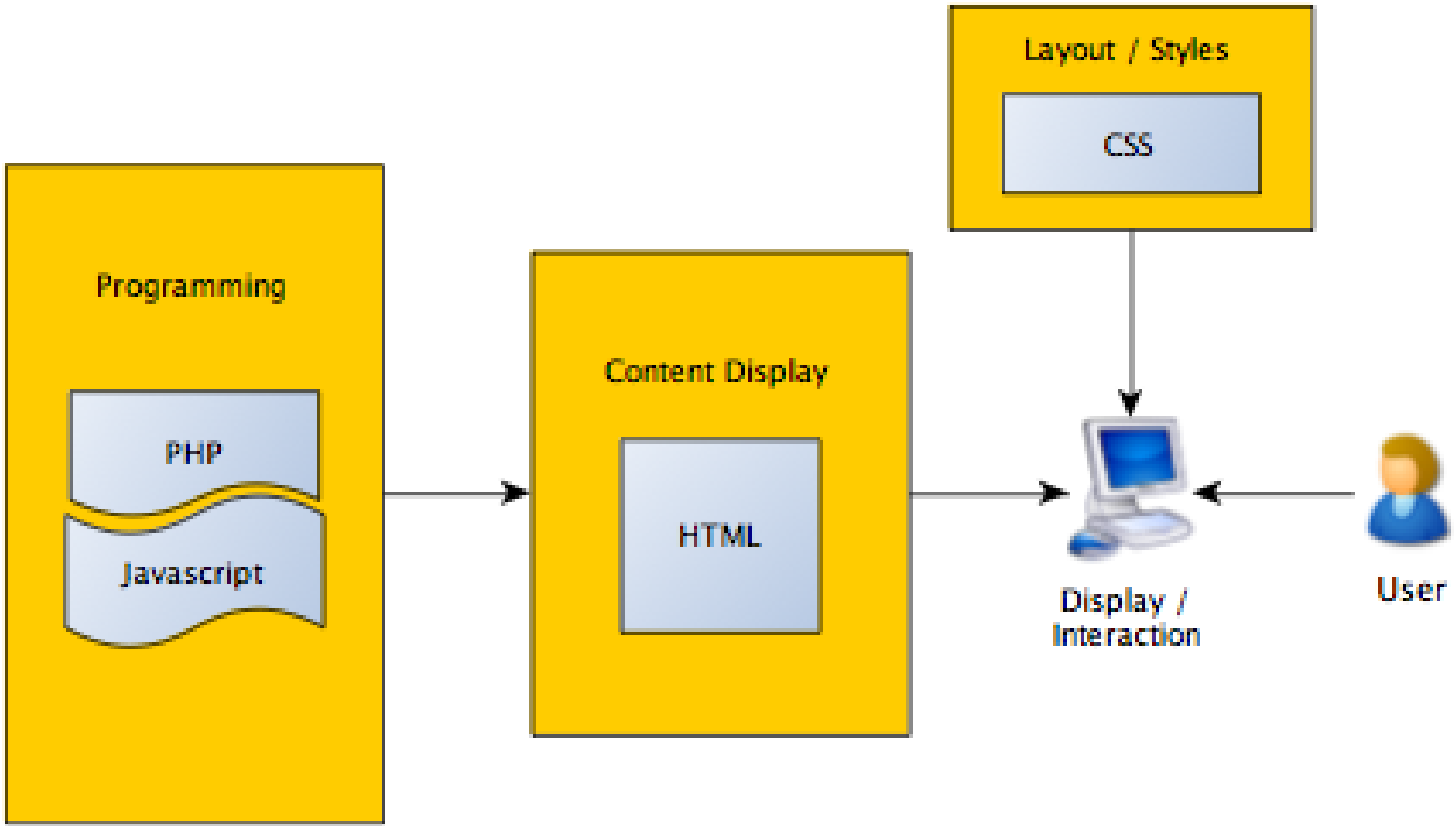
System Description

- Facebook Application



System Description

- Web language interplay



Database Design

Users		Challenges	
Attributes	Data Types	Attributes	Data Types
id	long	id	long
name	varchar	level	integer
android	boolean	description	varchar
level	integer (1,2,3)	image URL	varchar
challenges completed	list	latitude	double
current challenge	integer	longitude	double
calorie goal	integer		
calories burned	integer		
weight	integer		
height	integer		
distance travelled	integer		
following (list of ids)	list		

Design Validation

- GPS Test
  - GPS location data tested accurate to 1 meter, testing against Google Maps data using various phones
- Intuitiveness Test
  - Ease of use of Android, Facebook applications
  - Had friends play game

Team Roles

Steve	Fernando
- Team leader - Facebook friend following / PHP scripting - Android App	- Facebook App - Display health/distance statistics - Challenge creation
Scott	**Prince**
- Android App - Android GUI - GPS tracking - Background services	- Android App - Facebook Single-Sign-On - GPS tracking and logging

Team Management

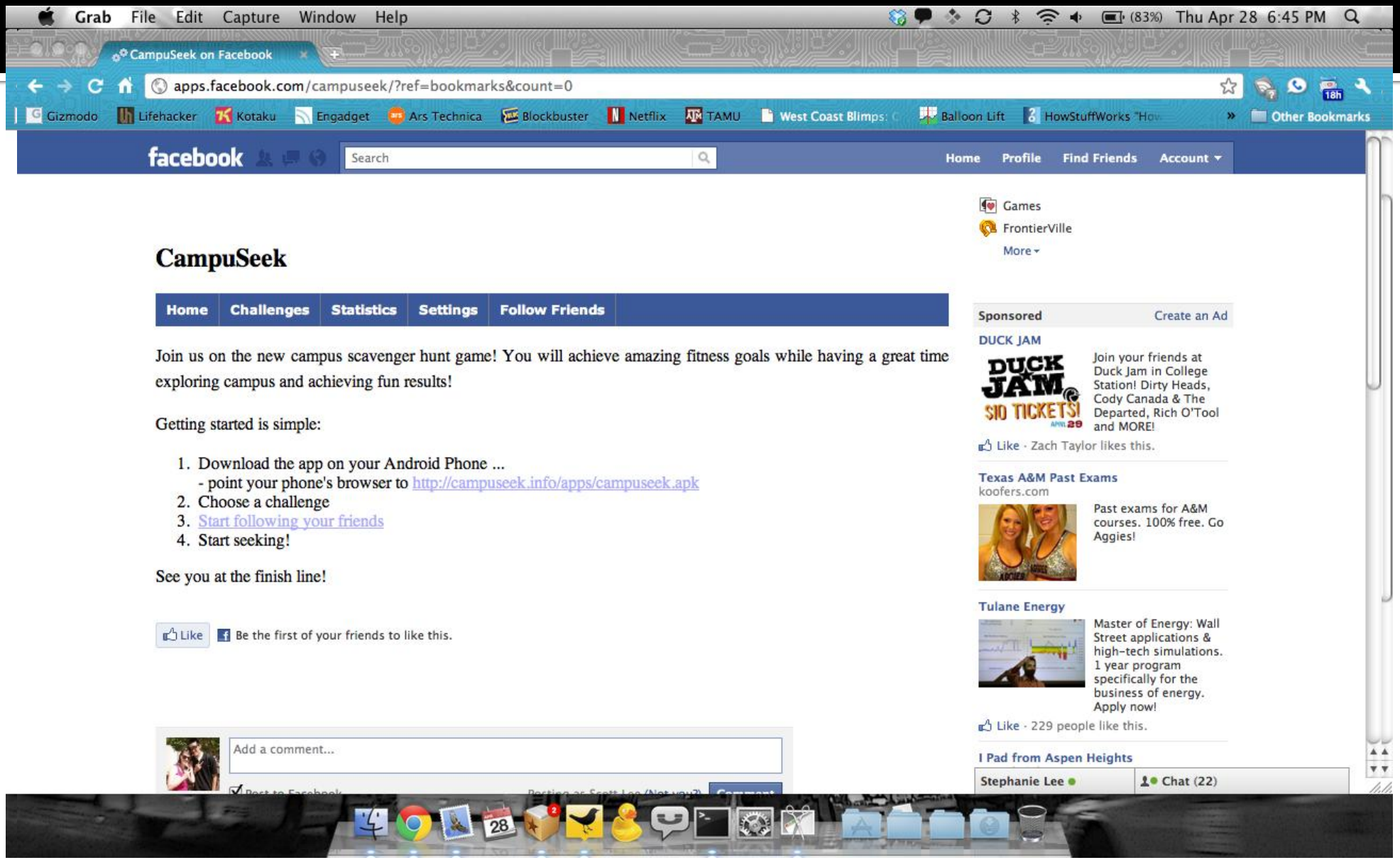
- We ran into no personal issues throughout this project with each team member willingly helping another when a problem arose.
- On schedule each week. Achieved developmental goals each week with deadlines set in the planning stages

Environmental, Health, Social, Political and Ethical Concerns

- Health/Safety Concerns
  - Safety of challenge locations
  - Users should ensure they are properly hydrated and in condition to work out
- Environmental Concerns
  - System does not have big environmental impact
- Privacy/Social Concerns
  - User data being stored, shared
  - To ensure user privacy: user agreement on FB app
- Ethical/Legal Concerns
  - Ensure challenge destinations are accessible, legal
  - Ensure not infringing any policies or user rights

Manufacturability, Sustainability, Economics

- App is in distributable form on website
  - Can freely download/install to any phone
- Facebook app is accessible as well
- For sustainability, web hosting plan must be renewed for database and Facebook page
  - Cost: $11.95 / 3 months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Join us on the new campus scavenger hunt game! You will achieve amazing fitness goals while having a great time exploring campus and achieving fun results!
Getting started is simple:
1. Download the app on your Android Phone ...
- point your phone's browser to http://campuseek.info/apps/campuseek.apk
2. Choose a challenge
3. Start following your friends
4. Start seeking!
See you at the finish line!
Like Be the first of your friends to like this.
Add a comment...
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More
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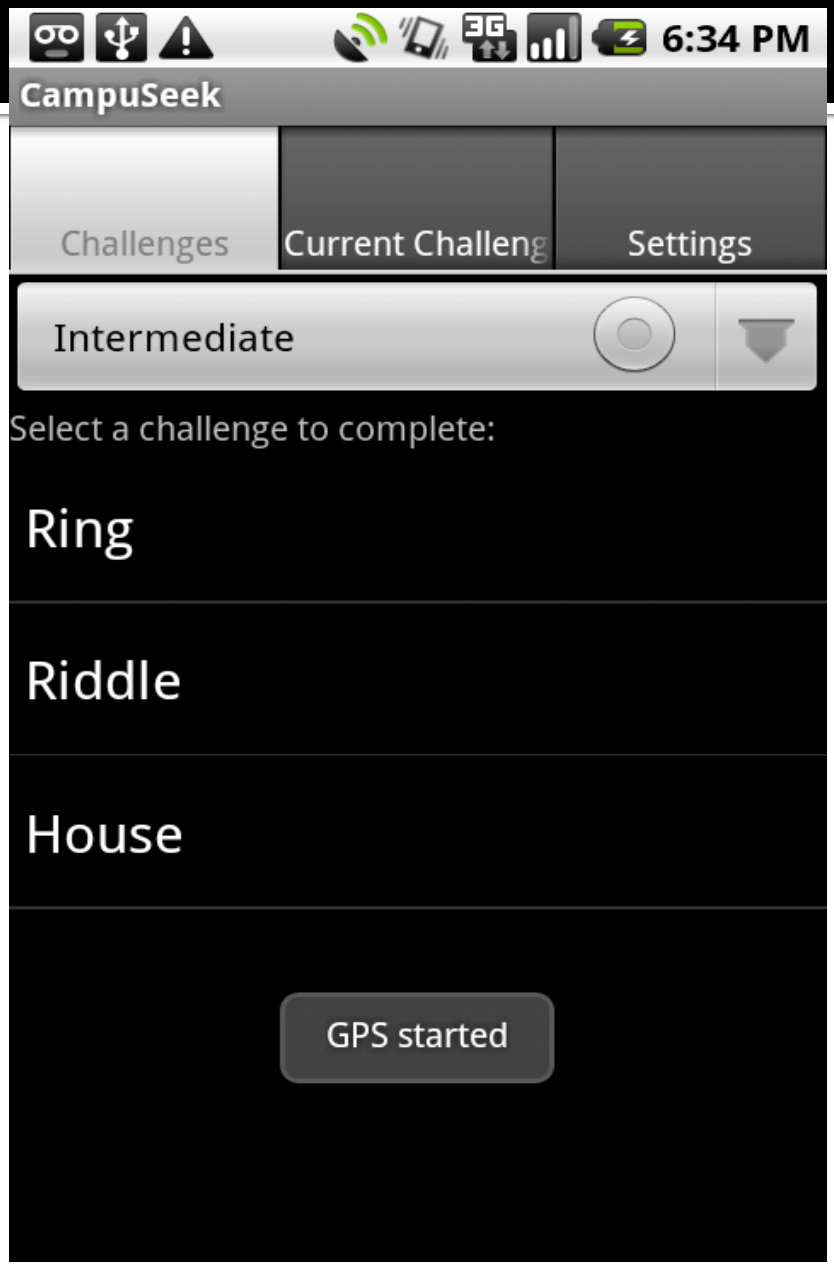
6:34 PM
CampuSeek
Challenges
Current Challeng
Settings
Intermediate
Select a challenge to complete:
Ring
Riddle
House
GPS started

Future Extensibility

- Users could potentially add their own challenges
  - Completely dynamic design (both Android and Facebook) to allow this
- Extend CampuSeek to other campuses
  - App was intentionally developed to be campus-neutral / easily extendable to other campuses
- Other platforms: iPhone

Questions