

VolunteerMe! Project

David Douberley | Austin Macdade | Henry Salazar

The Idea

- Volunteering is hard
- Scheduling, interest, skills...
- Volunteering should be fun

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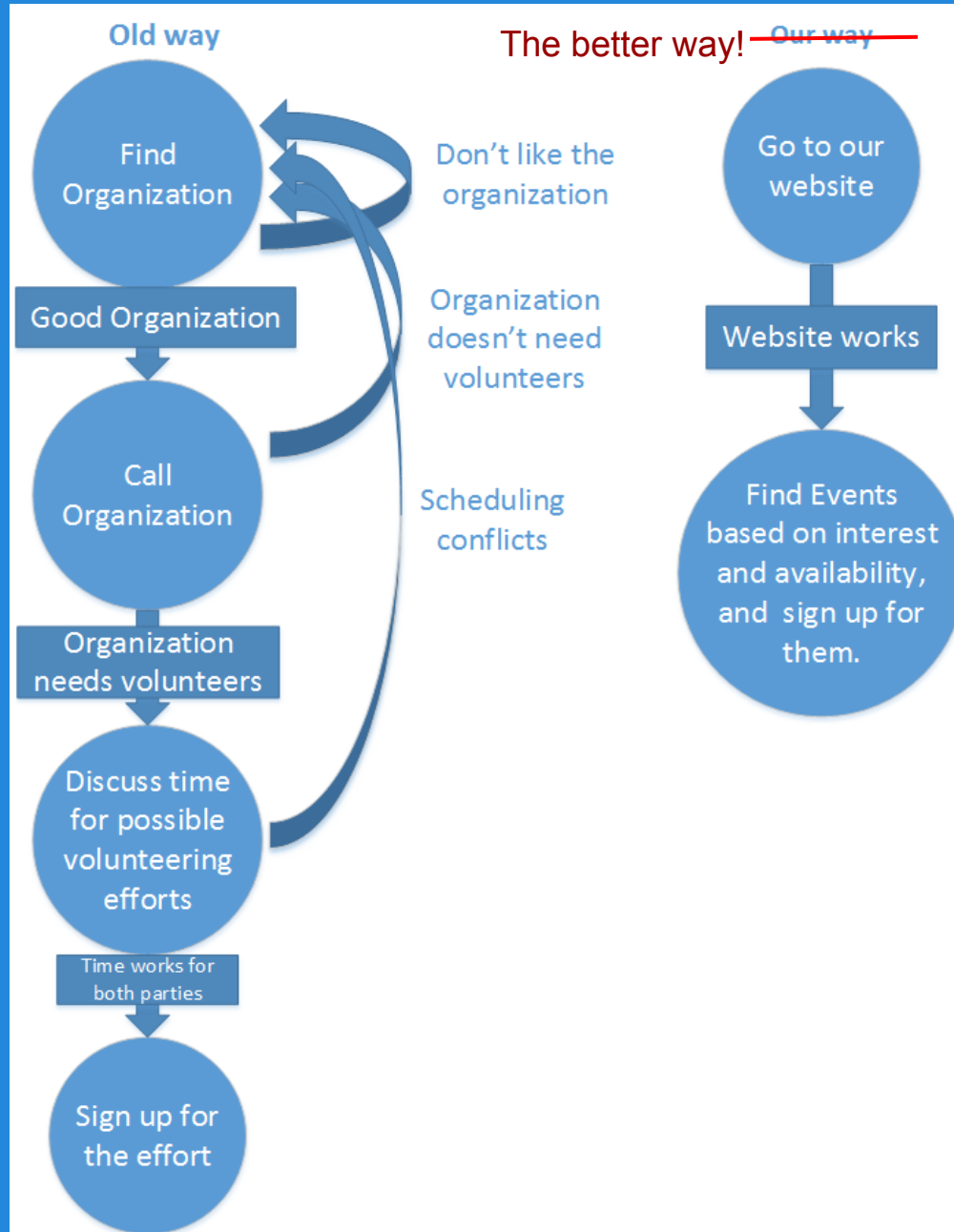
Changing the Formula



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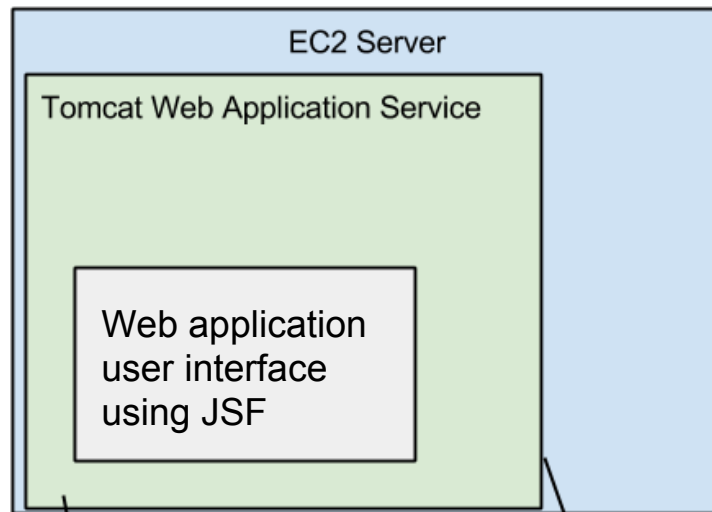
Making Things Fun

- Internet Points
- Competition
- “Score” board
- Grouping

Organization

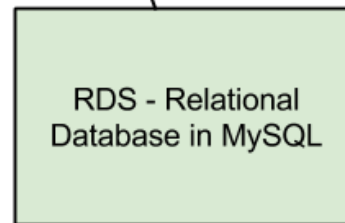
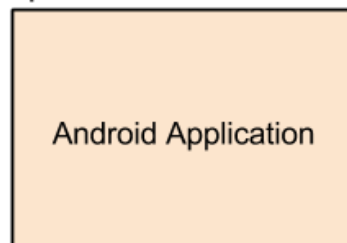
The dreaded administrative information section.

Distribution of Labor

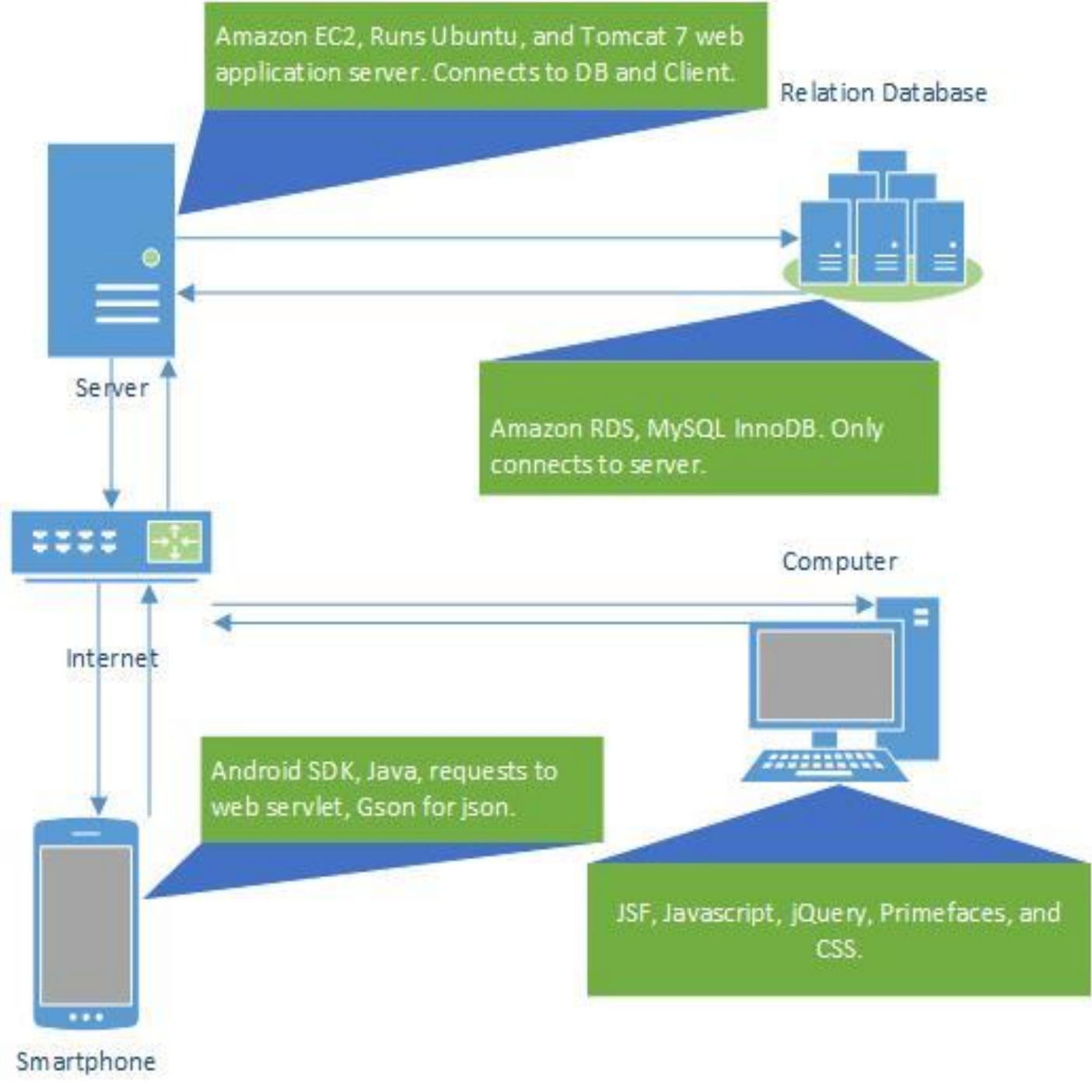


Color	Owned by
Blue	Everyone
Green	David
Orange	Henry
Grey	Austin

Database information being relayed to and from the application server.



Overview of Technology



Server Side

where the magic happens...

Technologies Used

- Gson
- JSF
- AJAX
- PrimeFaces
- HTML5
- CSS
- Javascript
- JQuery
- JAVA
- Eclipse
- Amazon EC2
- Tomcat 7.0
- Amazon RDS
- MySQL
- Hibernate
- Much much more...

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Hibernate

- Database and Java Object relationships
- Widespread Use
- Good tools
- Powerful

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Amazon Suite

- Highly Scalable and Powerful
- Light Weight
- Easy to start
- Free

Security

- Taken very seriously
- Latest principles

Challenges Back-End

- Hibernate distress
- RDS disaster

Costs

- Free!
- Recycled
- Future Expenses

Client View

server generated code, i.e. the website

Web Component Goals

- Fast
- Simple
- Portable
- Motivating

Required Features

- Different users have different use cases
- Build up full feature set by inspecting each use case

Use Case: Volunteers

- Searching
- Feedback
 - Hours worked
 - Verified hours
 - Reports
 - Contribution summary
 - Detailed contribution
 - Leaderboard
- Schedule
 - Notifications
 - Availability

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Use Case: Volunteers

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- **Schedule**
 - Notifications
 - Availability

Use Case: Groups/Organizations

- Searching
- Feedback
 - Hours worked
 - Verified hours
 - Reports
 - Contribution summary
 - Detailed contribution
 - Ratings summary
- **Managing Members**
 - **Access Control**

Use Case: Organizers

- Searching
 - SEO
- Managing events
 - Scheduling, filling positions
- Managing volunteers
 - Are my applicants qualified?
 - Core volunteers
- Reports
 - Are my volunteers reliable?
- Feedback
 - Reviews

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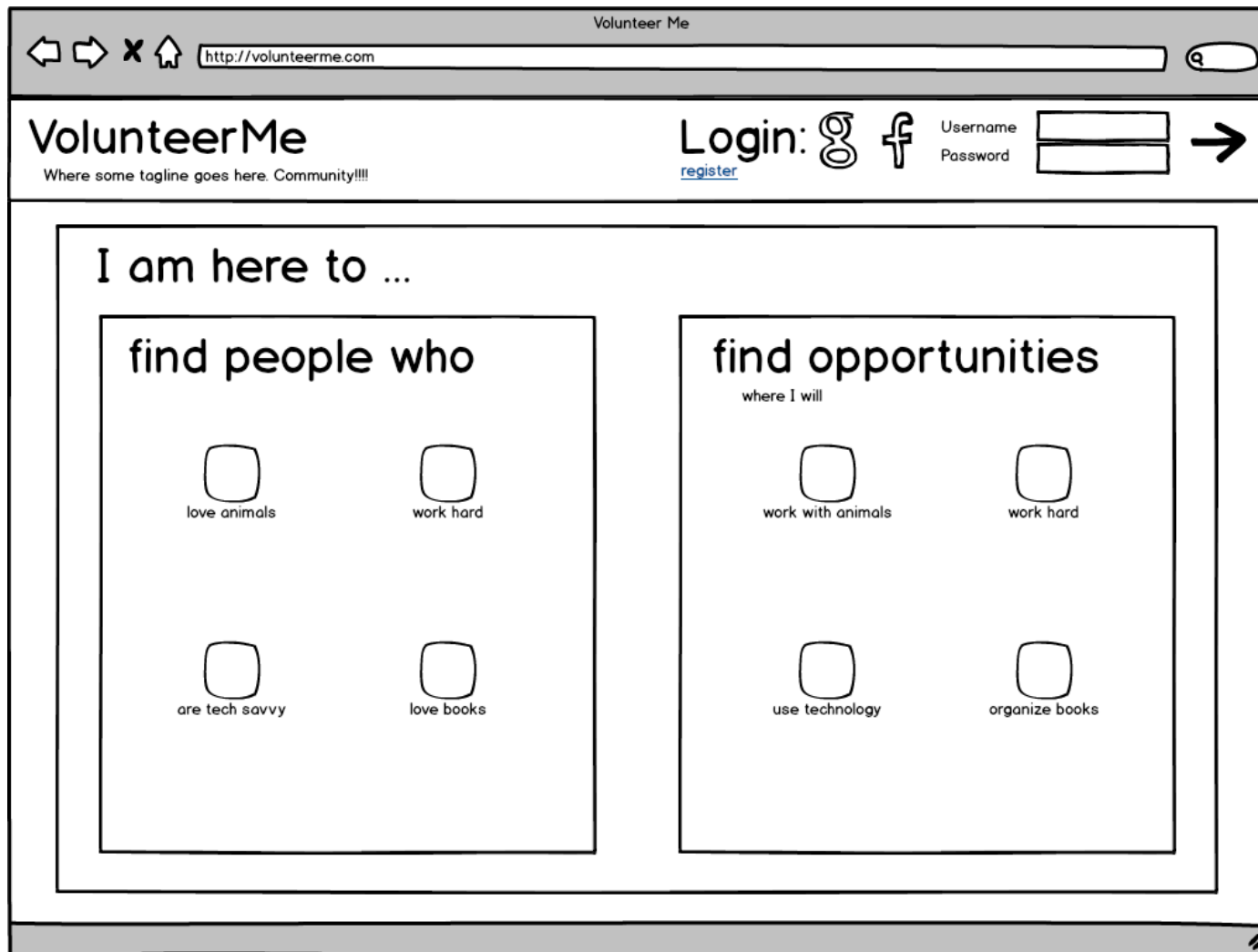
Designing the Website

- Searching
 - Keywords
 - Filters
 - Time
 - Location
 - How to sort/rank results
- Feedback
- Management
- Reports
- Design
 - Look, Feel - better addressed by a Graphic Designer

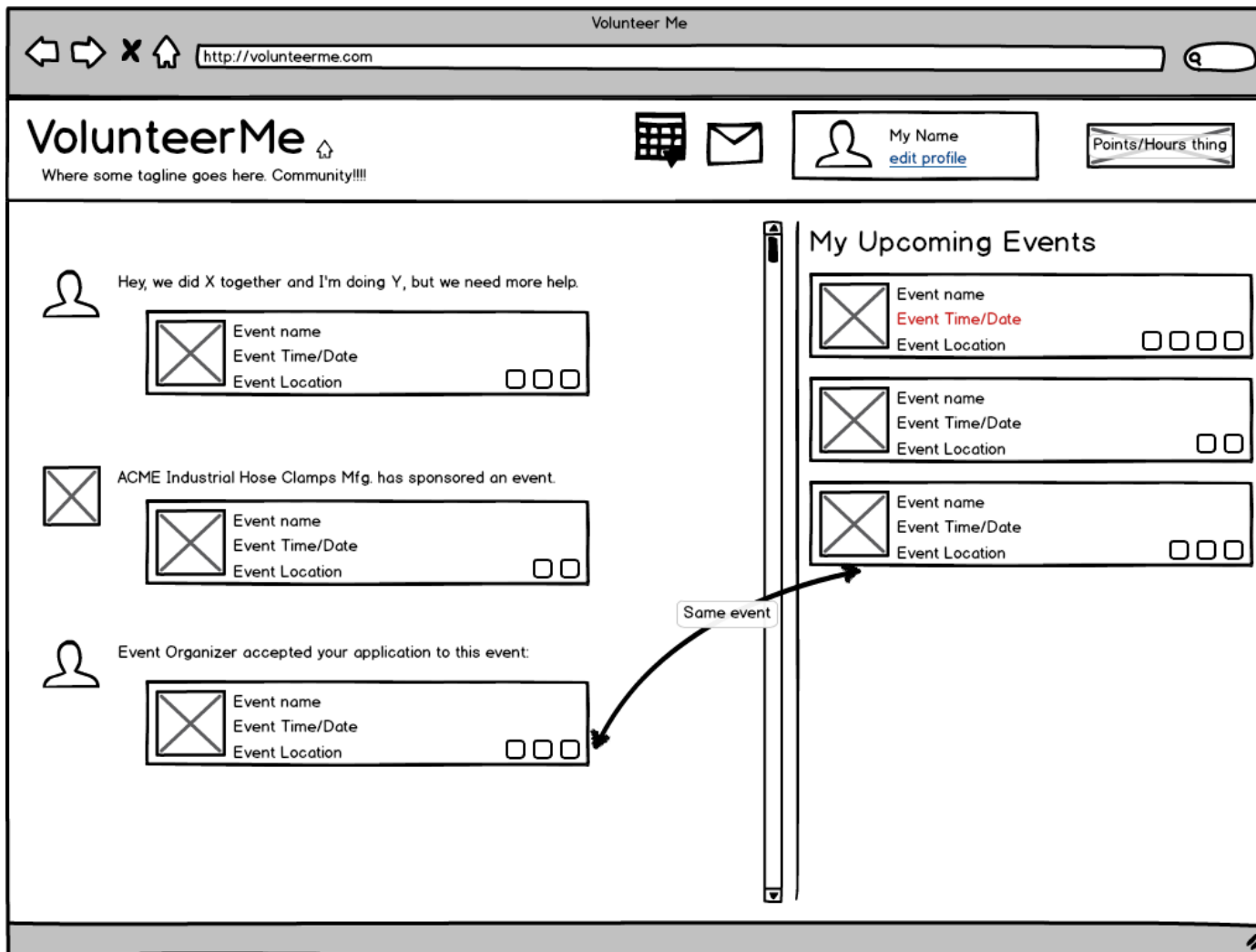
Implementing the Website

- Data
 - Hibernate
- View
 - JavaServer Faces (JSF) uses Facelets (XHTML)
 - PrimeFaces extends JSF, uses jQuery
 - Generates HTML5, CSS3, JavaScript
 - Uses HTTP and AJAX for communication
- URL Mapping
 - Rewrite
 - <http://website/Web/NewVolunteer.xhtml?jftfdi=&jffi=%2FNewVolunteer.xhtml%3Ffaces-redirect%3Dtrue>
 - <http://website/register>

First Appearances



Home Page



In Progress Screen-shot



Helping You, Help Everyone.

Login

Register

Welcome to VolunteerMe! VolunteerMe is a website to make volunteering easier for everyone involved. People want to know when and where they can volunteer quickly, and organizations need to know how many people will show up. This website helps both parties with their respective goals.

As a Volunteer you can

- Sign up for events
- Track your hours
- Follow organizations (or run them)
- Join groups (or run them)

As an Organization Administrator you can

- Create an Organization
- Add other members
- Create events
- Track volunteers (with an approval process)
- Create an Organization

As an Group Leader you can

- Create a group
- Manage the members
- Sign the group up for an event (the individual members still sign up from there)
- Keep track of the groups cumulative stats

**VOLUNTEER
ME!**

Username!

Register

[About Us](#) | [Source Code](#) | Copyright 2014

Future Work

- Add more features
- Polishing
- Possible Mobile Website
 - PrimeFaces Mobile - powered by jQuery Mobile
 - Allows for mobile accessible presence on devices we don't have an app for
- Hire a designer

Android App

Android Component Constraints

- Lightweight and simple
- No Ads
- Light data usage

Goals for Android

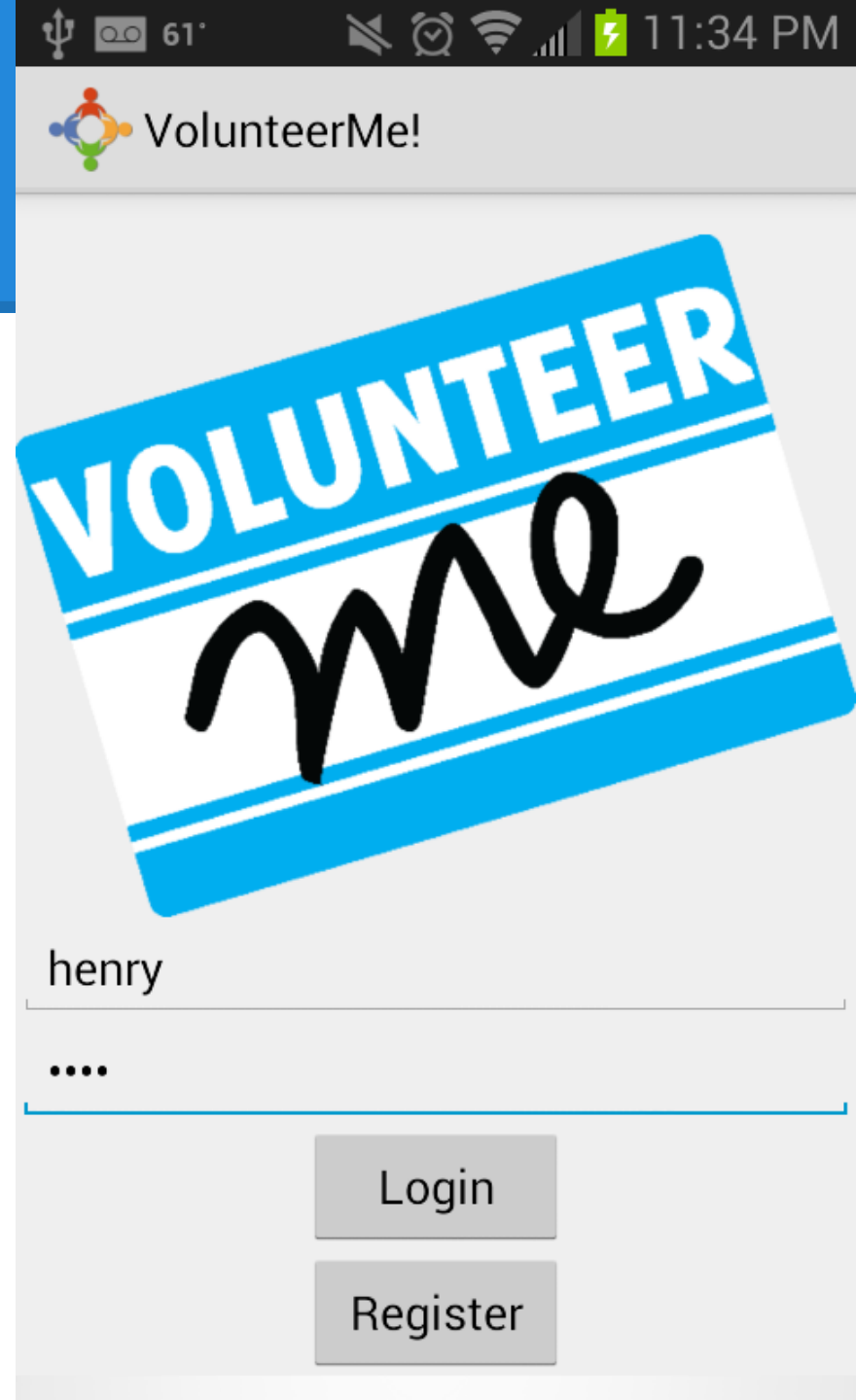
- To allow the user easy access to their volunteer plans when they are not in front of a computer
- To allow organizations to complete basic tasks

Design Approach

- Simple
- Easy to use
- Modern graphical theme

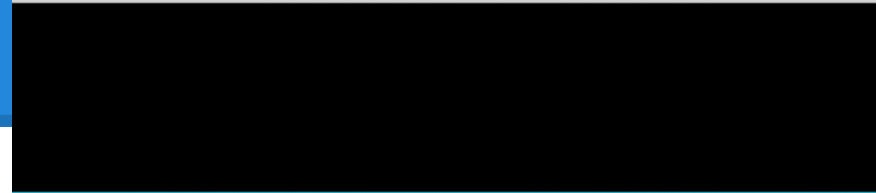
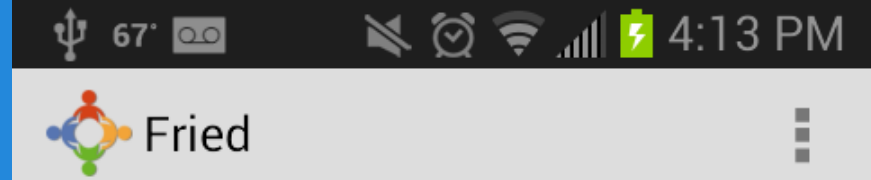
So how will it look?

Login Page



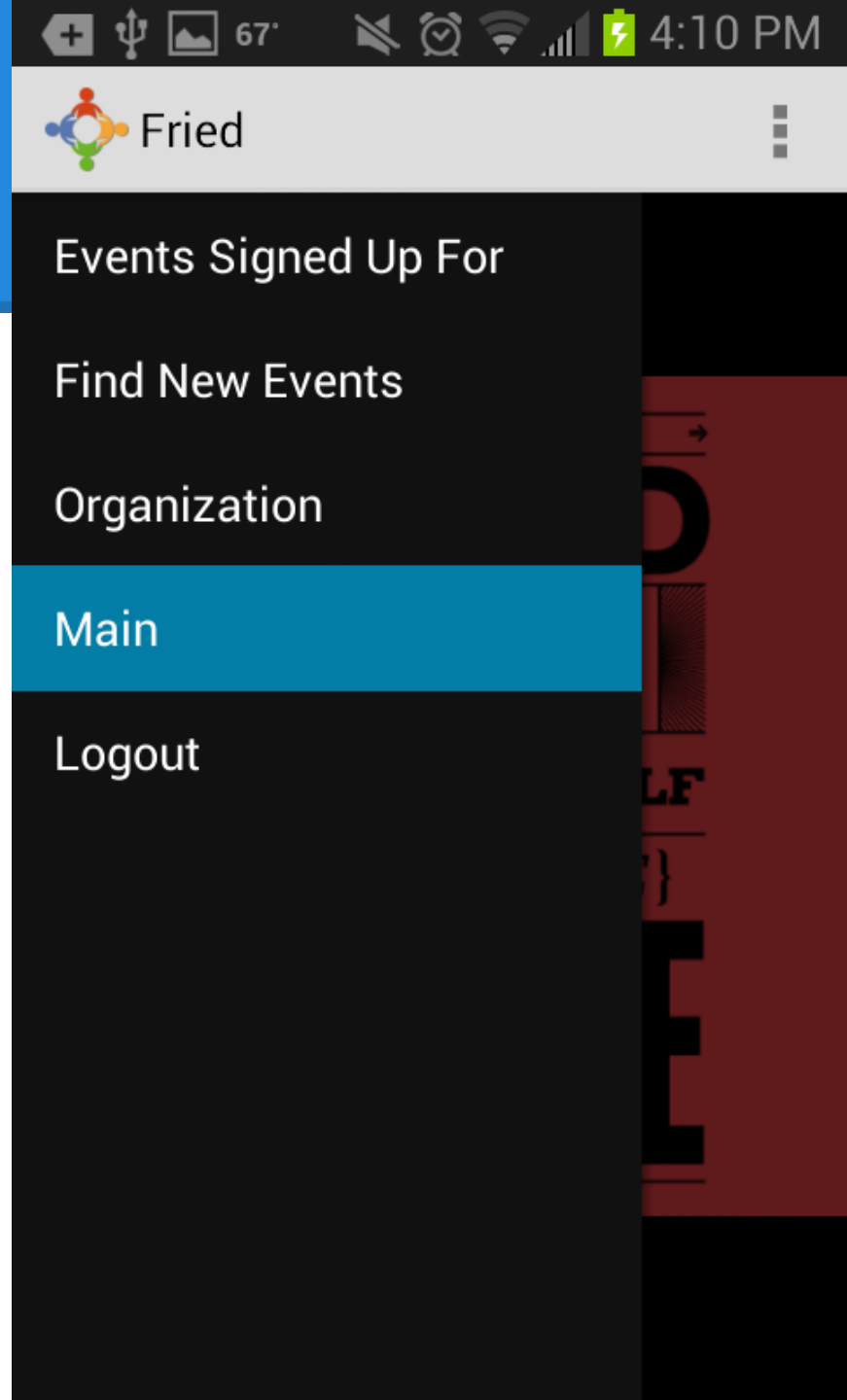
So how will it look?

Background



So how will it look?

Navigation Drawer



So how will it look?

My Events



The screenshot shows a mobile application interface. At the top, there is a status bar with icons for camera, email, temperature (67°), a person icon, alarm, Wi-Fi, signal strength, and battery, along with the time 8:23 PM. Below the status bar is a header area with a colorful logo of four people holding hands, the name 'Henry', and a search icon. The main content area is a list of events. The first event is 'Ditch Digging' with a downward arrow. The second event is 'Adoption Event' with an upward arrow. Below the event title, the date and time are listed as 'Sat Feb 22 21:25:00 EST 2014'. The location is 'Orlando'. The event description reads: 'Have you always wanted to adopt a homeless Floridian Alligator? Here's your chance!'.

Henry

▼ Ditch Digging

▲ Adoption Event

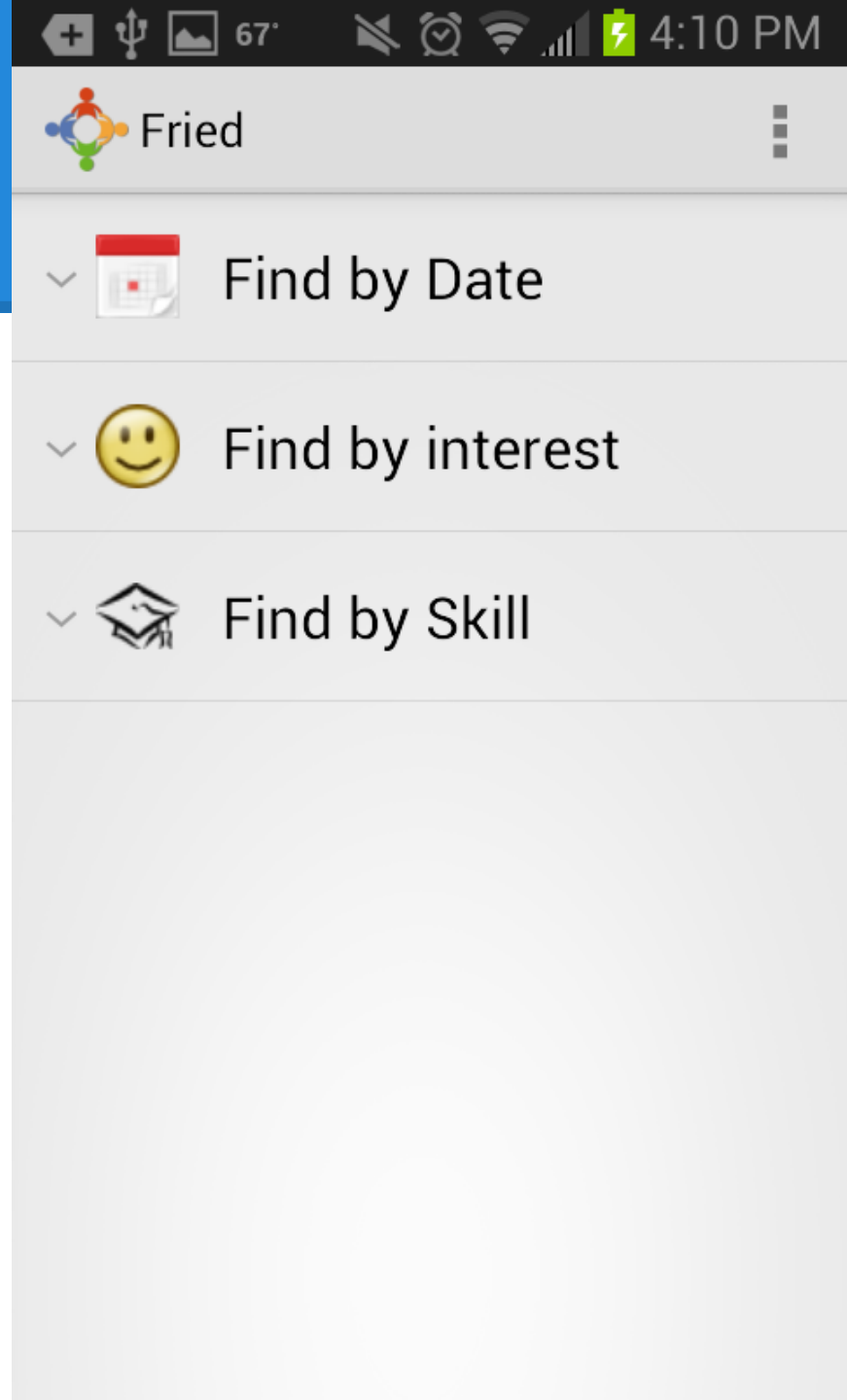
Sat Feb 22 21:25:00 EST 2014

Orlando

Have you always wanted to adopt a homeless Floridian Alligator? Here's your chance!

So how will it look?

Find feature

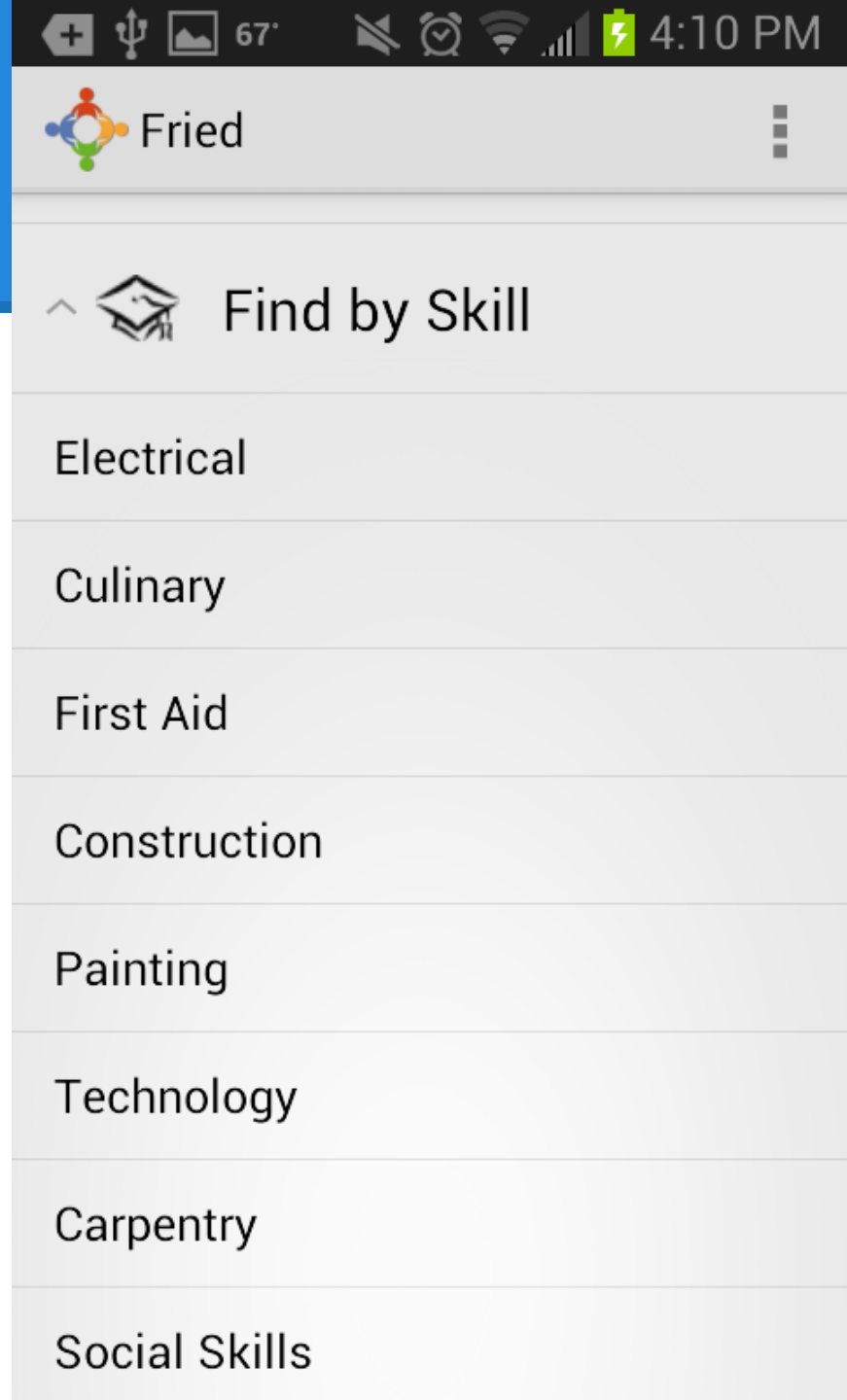


Find Feature

- List of Events
- Expands on selection

So how will it look?

Find feature



Organization Feature

- Approve volunteers for events
- Assign hours and rating

So how will it look?

Organizations
can approve
members

The screenshot shows a mobile application interface. At the top, there is a status bar with various icons and the time 4:12 PM. Below the status bar is a header with a logo and the name 'Fried'. A 'Save' button is visible. The main content area displays a member profile for 'GrandmaOnAMission'. The profile includes the name 'Margarita Jones', a description 'Grandma who is a black belt in karate. Judo Master 2014.', and statistics: 'Hours Worked: 20', 'Points: 20.0', and 'Rating: 77.0'. An 'Approved' button is located below the statistics. The profile is expandable, as indicated by a chevron icon on the left.

67° 4:12 PM

Fried

Save

^ GrandmaOnAMission

Margarita Jones

Grandma who is a black belt in karate. Judo Master 2014.

Hours Worked: 20

Points: 20.0

Rating: 77.0

Approved

∨ ComputerWhiz

Android Vs Apple

Why we chose Android:

- Financial Cost
- Android has ~70% of the market
- Easy access to technology

Android Challenges

- Keeping the functionality simple so it's usable on a small screen yet consistent with the website
- Hibernate can't be used directly on Android

Android Specifications

Technologies used:

- Java
- Android SDK
- Web Service (Servlets)
- Gson for Json (Data exchange format)

Android Specifications

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- Java
- **Android SDK**
- Web Service (Servlets)
- Gson for Json (Data exchange format)

Android

- Lots of Documentation
- Tutorials and support

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Web Service

- Accesses the DB for Android
- Pulls data and returns it in JSON

Android Specifications

Technologies used:

- Java
- Android SDK
- Web Service (Servlets)
- Gson for Json (Data exchange format)

Gson for JSON (JavaScript Object Notation)

- Marshall objects to JSON (object gets converted to JSON)
- Made by Google
- Powerful and Simple

Example JSON:

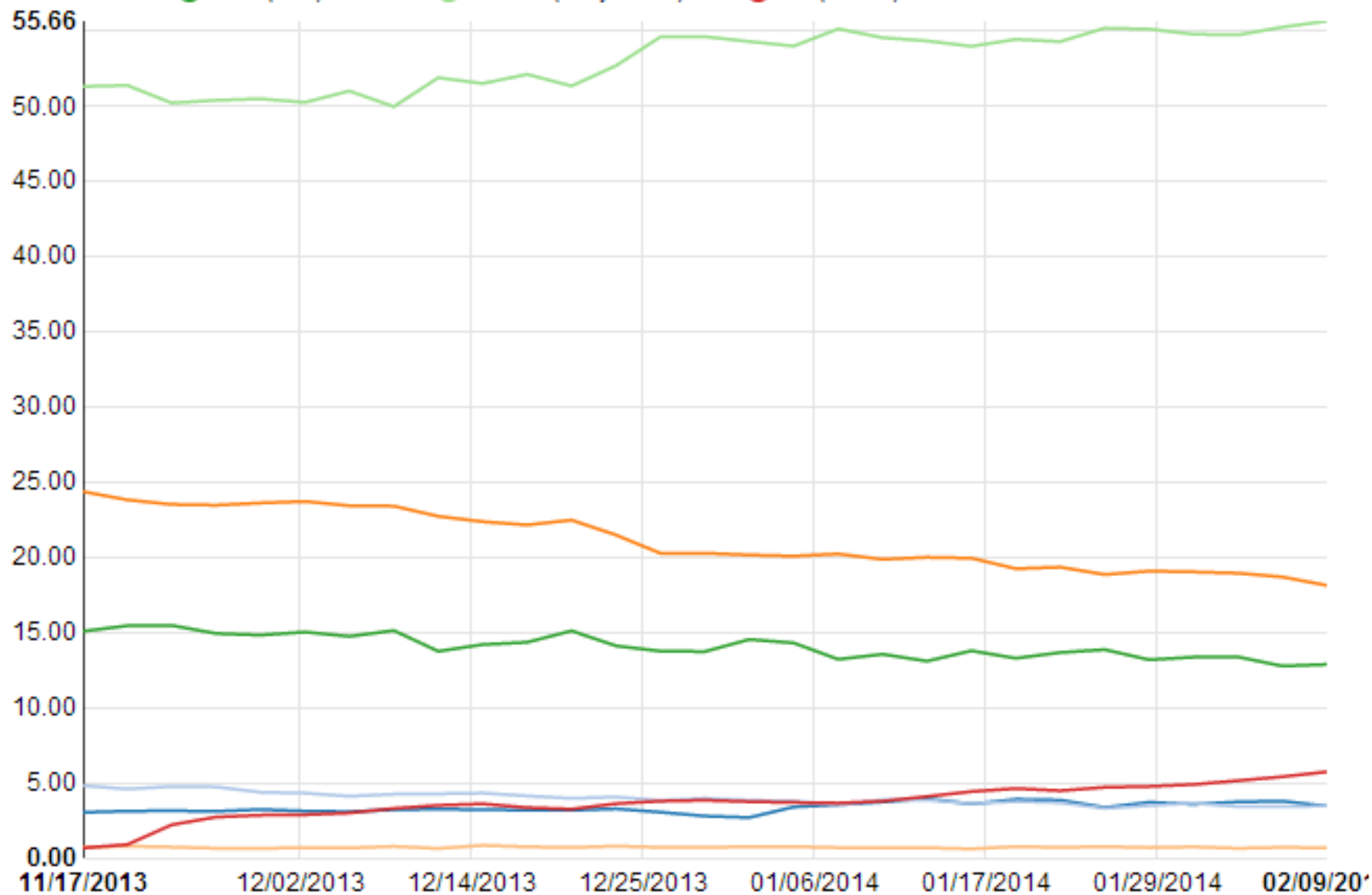
```
[
  {
    "orgId":43,
    "orgName":"UCF Arboretum",
    "address":"UCF, Florida",
    "phoneNumber":"321-321-3212",
    "emailAddress":"arboretum@ucf.edu"
  }
]
```

Android Requirements

- The minimum Android API is level 11, Honeycomb
- Holo Light Theme is not compatible with older phones
- The target is level 18, which about 50% of phones run

Most common SDK versions, February 13, 2014

- 2.0-2.1 (Eclair)
- 2.2 (Froyo)
- 2.3 (Gingerbread)
- 3.0-3.2 (Honeycomb)
- 4.0.x (ICS)
- 4.1-4.3 (Jelly Bean)
- 4.4 (KitKat)



Logos to take inspiration from



Logos to take inspiration from



Budget and Testing for Android

- No official budget
- S3, S2 testing
- Use new and old phones

Things to Remember

- We want to help you help everyone
- Volunteering should be fun