THE Ultimate Weight-Loss Adventure

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Introduction

- **Background**
  - Obesity is rising and people lack motivation to work out and be active

- **Need**
  - Promote fun, active workout so users can be healthy

- **Goal**
  - Create a mobile, collaborative social game that will encourage active lifestyle

- **Objectives**
  - Fun game, collaborative, users have fun being active, easy to use
Design Alternatives and Final Decision

• Alternatives
  – Use accelerometer to track steps
  – Amazing Race
  – Running race game
  – Various workouts tracking

• Final Decision
  – Originally proposed design
  – Campus scavenger hunt with health charting
System Description
System Description

- Android Interface
System Description

- Android Data Handling
System Description

• Facebook Application
System Description

- Web language interplay
System Description

- MySQL Tables

<table>
<thead>
<tr>
<th>Users</th>
<th>Data Types</th>
<th>Challenges</th>
<th>Data Types</th>
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</thead>
<tbody>
<tr>
<td>Attributes</td>
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<td>distance travelled</td>
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Task Schedule (Gantt)

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<tr>
<th>ID</th>
<th>Task Name</th>
<th>Start</th>
<th>Finish</th>
<th>Duration</th>
<th>% Complete</th>
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<td>2/23/2011</td>
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<td>9</td>
<td>Facebook interface design</td>
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<td>2/25/2011</td>
<td>2d</td>
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<td>3/4/2011</td>
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<td>3/4/2011</td>
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<td>100%</td>
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<td>4/8/2011</td>
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<td>0%</td>
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<td>9 Challenges created</td>
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<td>30%</td>
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Design Validation

- GPS Test
  - accurate location - test against car GPS
  - determine margin of error
- Intuitiveness Test
  - ease of use of Android, Facebook applications
  - survey
- Sanity Test
  - ensure users are exercising and not using prohibited modes of transportation
- Health Statistics Test
  - show that users are achieving health goals
  - survey
Team Management

Facebook

• Steve
  – Complete friend-following feature (3/25)
  – Determine final database schema for storing workout info (3/30)
  – Home page finalized with all desired content and styling (4/10)
  – Robust user management and querying. Database cleanup features (4/10)
  – Hotter/Colder and Hints features (extra feature, if time) (4/20)
  – Overseeing teamwork and interaction between the two modules

• Fernando
  – Finalize graph and chart formats for displaying health statistics (3/30)
  – Basic charting or graphing of health statistics (4/10)
  – Completion of 5 challenges (4/2)
  – Final completion of challenges (4/15)
Team Management

Android

• Scott
  – Complete minimal UI features and robustness (3/30)
    • Generate challenge selection screen (3/25)
    • Challenge confirmation using GPS (3/30)
  – Complete challenge selection page. Robust (4/15)
  – Make simple health statistics page – may just point to Facebook (4/20)
  – Hotter/Colder functionality (this is an extra feature, if time) (4/20)

• Prince
  – finalize graph and chart formats for displaying health statistics (3/30)
  – Basic charting or graphing of health statistics (4/10)
  – Completion of 5 challenges (4/2)
  – Final completion of challenges (4/15)
Preliminary Results

• Android Application
  – Video demo
Preliminary Results

• Facebook Application

  – Live demo
Environmental, Social, Political and Ethical Concerns

• Privacy/Social Concerns
  – User data being stored, shared
  – Security when sending data to/from central database
    • PHP scripts that interact with Android are biggest issue
  – 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

• Environmental Concerns
  – System does not have big environmental impact
Questions