InterActive ODL
Purpose

Provide a user friendly way to track health and nutritional needs
Allow user to input data about their nutritional, mental, and physical health
Display previously entered data and customizable graphs
Medical Reminders Imported from Google Health
Allow user to use program without connecting to Google Health
Progress as of Prototype 1

GUI screens created
Able to connect to website and receive HTML code and response codes
Successfully created and passed information through data streams to and from site
Next step is to connect to our server from the phone
Successfully created separate threads for server connections
Progress as of Prototype 2

Successfully made Connection from Server to Phone
Successfully Created and called web service that Authenticated with Google Health
Successfully Enter and Recall data entered on the Health Screen on the Entries Page
Successfully created classes that could be converted to and from JSON object
Successfully Created User Log In Screen
Final Product: What was Completed?

Login Screen allows the user to enter his or her Google Health Account information and check the box to connect to Google Health. The user can choose not to use the login screen and use the program without connecting to Google Health.

Health Screen allows the user to enter how they are feeling (Happiness, Energy Level, Weight) and the date along with any comments they may have.

The Entries screen allows the user to see all of the Health Entries they have made.
Final Product: What was Completed?

Popup windows displays comments entered by the user.
Charts tab allows the user to choose between a pie graph for happiness or energy level.
User can also choose a line graph with all three metrics.
Date ranges can be defined for all graphs.
Final Product:
What was Completed?

Prescriptions are updated every time program is run, or by request from the setting tab. When new prescriptions are detected the user is asked to enter the time that they want. User allowed to turn on/off the prescription alarms without removing them from the calendar. User allowed to change the start date and time for the prescription at any time. Easily view if the prescription alarm is on or off.
Final Product:
What was Completed?

Settings tab allows the user to reset the login info
Clear all of the Health ODL data that they have entered
Refresh the medication list from Google Health
See min weight, max weight and initial weight
Final product is a light and fast user friendly program that can help track your health and medications
The App
The Login Screen

Login screen allows the user to enter Google Health Login information and select that they want to connect to Google Health.

Login Information stored on phone so user does not have to re-enter information.
Enter Health ODL

Select data from a drop down

Enter the date of the observation

Enter any comments you may have about that day
View all health ODLs entered

Click button to the right of the entry to see the comment

<table>
<thead>
<tr>
<th>DateTime</th>
<th>Hap</th>
<th>Ene</th>
<th>Wei</th>
<th>Com</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-28-10 06:27</td>
<td>9</td>
<td>7</td>
<td>156</td>
<td></td>
</tr>
<tr>
<td>4-27-10 08:25</td>
<td>8</td>
<td>4</td>
<td>153</td>
<td></td>
</tr>
<tr>
<td>4-26-10 07:27</td>
<td>5</td>
<td>1</td>
<td>161</td>
<td></td>
</tr>
<tr>
<td>4-25-10 03:27</td>
<td>6</td>
<td>6</td>
<td>157</td>
<td></td>
</tr>
<tr>
<td>4-24-10 14:27</td>
<td>9</td>
<td>7</td>
<td>155</td>
<td></td>
</tr>
<tr>
<td>4-23-10 14:27</td>
<td>6</td>
<td>7</td>
<td>156</td>
<td></td>
</tr>
<tr>
<td>4-22-10 16:30</td>
<td>9</td>
<td>10</td>
<td>153</td>
<td></td>
</tr>
<tr>
<td>4-21-10 16:30</td>
<td>2</td>
<td>3</td>
<td>163</td>
<td></td>
</tr>
</tbody>
</table>

Not feeling so good
Today
Charts

Choose date and time

Choose Line or Pie graph
Charts

Line Graph

Pie Graphs

Happiness

Energy Level
Add new prescriptions from Google Health
Deletes Prescriptions Removed from Google Health

Recognizes when a prescription has been added to Google Health and asks you if you would like to remove it.

Remembers your decision and does not ask you again.
Shows Medications and allows Change

Shows each medication and whether or not the alarm is on

User can click the medication to change the time or to turn the alarm on/off
Change the Alarm Time

Can change the time of the alarm and it will automatically update the BlackBerry calendar.
Change Alarm Time

Event shows up with changed time on BlackBerry Calendar
Turn off Alarm

Turn on/off the alarm with the click of the button
Settings

User can reset login info
Delete all Health Data on the phone
Manually Refresh data from Google Health
<table>
<thead>
<tr>
<th>Component</th>
<th>Org 1</th>
<th>1 Act</th>
<th>Org 2</th>
<th>Act 2</th>
<th>Org 3</th>
<th>Act 3</th>
<th>Pri.</th>
<th>Sec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client-side Application</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GUI</td>
<td>P</td>
<td>P</td>
<td>F</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Will</td>
<td>Adam</td>
</tr>
<tr>
<td>Options</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>F</td>
<td>F</td>
<td>Adam</td>
<td>Kris</td>
</tr>
<tr>
<td>Statistics Display</td>
<td>S</td>
<td>x</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>F</td>
<td>Will</td>
<td>Adam</td>
</tr>
<tr>
<td>Graphing</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>F</td>
<td>Kris</td>
<td>Will</td>
</tr>
<tr>
<td>Notification handling</td>
<td>S</td>
<td>P</td>
<td>F</td>
<td>P</td>
<td>F</td>
<td>x</td>
<td>Adam</td>
<td>Will</td>
</tr>
<tr>
<td>Prescription reminder interface</td>
<td>S</td>
<td>x</td>
<td>F</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Kris</td>
<td>Will</td>
</tr>
<tr>
<td>Data Transfer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ability to send data from the server to the phone</td>
<td>S</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Adam</td>
<td>Kris</td>
</tr>
<tr>
<td>Ability to send data from the phone to the server</td>
<td>S</td>
<td>x</td>
<td>P</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Adam</td>
<td>Kris</td>
</tr>
<tr>
<td>Listener for push messages to trigger notifications and reminders</td>
<td>S</td>
<td>P</td>
<td>P</td>
<td>P</td>
<td>F</td>
<td>x</td>
<td>Adam</td>
<td>Kris</td>
</tr>
<tr>
<td>Data Processing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data retrieval and serialization</td>
<td>S</td>
<td>P</td>
<td>F</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Kris</td>
<td>Will</td>
</tr>
<tr>
<td>Data serialization, client-side</td>
<td>S</td>
<td>P</td>
<td>F</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Kris</td>
<td>Will</td>
</tr>
<tr>
<td>Encryption</td>
<td>x</td>
<td>x</td>
<td>S</td>
<td>x</td>
<td>F</td>
<td>x</td>
<td>Kris</td>
<td>Adam</td>
</tr>
<tr>
<td>Web Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Listener for changes to user's GHealth profile</td>
<td>x</td>
<td>x</td>
<td>P</td>
<td>P</td>
<td>F</td>
<td>F</td>
<td>Adam</td>
<td>Kris</td>
</tr>
<tr>
<td>Automated internet news blurp gathering</td>
<td>x</td>
<td>x</td>
<td>?</td>
<td>x</td>
<td>?</td>
<td>x</td>
<td>Adam</td>
<td>Kris</td>
</tr>
<tr>
<td>Push message server</td>
<td>x</td>
<td>x</td>
<td>P</td>
<td>P</td>
<td>F</td>
<td>x</td>
<td>Adam</td>
<td>Will</td>
</tr>
</tbody>
</table>

Key:  
- x – not applicable to that phase  
- S – Stub  
- P – Partially implemented  
- F – Fully Implemented