Software Deliverables/Specification Recap

eSteth = Desktop software
(1) Communication software to stream data from an electronic stethoscope to a PC.
(2) Visualization software to display time and frequency domain waveforms.
(3) GUI software to control the electronic stethoscope via the Bluetooth connection.

eSteth.com = Web Interface
(1) Communication via https secure protocols.
(2) Implement a database to conform to the established eHealth practice; consult other faculties at UVic as needed.
(3) Client and Server side applications for user to view and listen to data files stored on the server or provide a completely browser based interface.
Progress:
Overview of Deliverables and Milestones
Writing in C# using .net 4 and Windows Presentation Foundation, Using visual studio 2010

Base communication, recording, and user profile IO achieved
Windows Application Block/Flow Diagram
Main Window
Settings Window

- **Serial Connection**
  - Comm Port: COM18
  - Baud Rate: 115200

- **Profile**
  - Connecting to COM18 Baud:115200 Stop:One
  - Port open
  - Try stethoscope query...
  - Stethoscope Found
  - Model:Electronic Stethoscope V0.3
  - Port closed

- **Profile**
  - First Name*: Christian
  - Last Name*: Mcmechan
  - Birthday: 2010 - August - 4
  - Gender: Male
  - Health Care #: 1234
  - eSteth.com User Name
  - eSteth.com Password
Problems Encountered
- Can only transfer audio at 4kHz using Bluetooth Serial Port profile at 115kb/s
- May convert one of the stethoscopes to serial over USB to facilitate higher sampling rate.
- C# learning curve/windows programming was steep at first, development slow.

Future challenges:
- Interconnecting desktop/web components
- Writing adequate waveform generator
The language of choice is C# with ASP.NET, Using Visual Studio 2010.

Progress on the web application has slipped slightly behind schedule but not catastrophically so.

Still expect to have major functionality complete by end of June.
Welcome to Stethlink

Login to an existing account or register if you are a new user.

Log On

Please enter your username and password. Register if you don't have an account.
Create a New Account

Use the form below to create a new account.

Passwords are required to be a minimum of 6 characters in length.

Account creation was unsuccessful. Please correct the errors and try again.

- Username already exists. Please enter a different user name.

Account Information

User name: [Field]
Email address: [Field]
Password: [Field]
Confirm password: [Field]

Register
- This week I have installed XAMPP for Windows.
- Version contains: Apache and MySQL.
- Used the code from the sample program “CD collection” written in PHP using MySQL to write the SQL for our project. I have name our database “christia-mytest” and load the first version to test on web server
Our database is located at phpMyAdmin
• On a local computer I have developed the Patient Admin Page
• The next step to develop the Doctors Admin Page (this weekend)
• Lastly I will develop log-in pages for patient and doctors (this weekend)
• I would like that my pages would be compatible for two languages English and French (next week)
Patient Administration - Can add and remove patients from the database

Patient Administration Page
A basic patient administration page.

My Patients

<table>
<thead>
<tr>
<th>Patient Id</th>
<th>Last Name</th>
<th>First Name</th>
<th>Phone Number</th>
<th>Email Address</th>
<th>Password</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>Mengre</td>
<td>Emma</td>
<td>234-456-7890</td>
<td>m@engre</td>
<td>tester</td>
<td>Delete Patient</td>
</tr>
<tr>
<td>1002</td>
<td>Elk</td>
<td>Elliot</td>
<td>234-456-3453</td>
<td>elk@eliot</td>
<td>tester</td>
<td>Delete Patient</td>
</tr>
<tr>
<td>1003</td>
<td>Beb</td>
<td>Bugai</td>
<td>234-123-4567</td>
<td>bugai@bebi</td>
<td>welcome</td>
<td>Delete Patient</td>
</tr>
</tbody>
</table>

Add Patient
Patient Id:  
Last Name:   
First Name:  
Phone Number:  
Email Address: 
Password:     

Add Patient

Show source code
CREATE DATABASE `christia_mytest` ;

CREATE TABLE `christia_mytest`.`PATIENT` ( `Patient_Id` INT( 8 ) NOT NULL , `Last_Name` VARCHAR( 32 ) NOT NULL , `First_Name` VARCHAR( 32 ) NOT NULL , `Phone_Number` VARCHAR( 32 ) NOT NULL , `Email_Address` VARCHAR( 32 ) NOT NULL , `Password` VARCHAR( 32 ) NOT NULL , PRIMARY KEY ( `Patient_Id` ) ) ENGINE = InnoDB ;

INSERT INTO `christia_mytest`.`PATIENT` ( `Patient_Id` , `Last_Name` , `First_Name` , `Phone_Number` , `Email_Address` , `Password` ) VALUES ( '1001' , 'Morozov' , 'Irina' , '(778)433-XXXX' , 'imorozov@uvic.ca' , 'test' );
Questions?