ITAS 274 - Group 1 Evaluation

Mickel, Eric, Shane, Don, Dane

**1 - Web Application**

General Feedback: Generally very well done, had almost all the pieces put together despite some technical difficulties when presenting to me in class. I think more could have been done to fairly distribute the programming work amongst the group members, but this was partly my fault for not making this a clear part of the assignment and grading requirements.

Other:

Not running Apache running on https  
Database kept changing  
Demonstrated login at:  
<http://142.25.97.127/carecenter/public/>

amy.newton@basewebdesign.ca

GR0UP!M@!L

<http://142.25.97.127/carecenter/public/person?column=p.specialty&keyword=surgeon>

**The core functionality of the system should include:**

* login authentication with secure passwords - please hash password before storing them

-> yes, through Active Directory

* all traffic between the server and client browser should have SSL/TLS encryption

OK, not running https but did have encryption through AD authentication

* nurses, physicians, and technicians should have different roles and access different aspects of the application. For example, nurses should be allowed to enroll a new patient, however only a doctor should have access to the button or form that 'discharges' a patient.

yes, using Acls with inheritance

* nurses should be able to login and see all the patients currently at the clinic, and which bed or room they are assigned to

do have access to patient details -nurses and physicians should be able to view items and treatments associated with a patient - both for their current visit and past visits to the clinic

Nurses and physicians ARE not able to view items and treatments associated with a patient

* technicians should be able to login to view locations of labratories and where they are assigned to work

NO

* Reporting: the application should be able to generate reports such as:
  + patients discharged over the last month
  + patients currently in the hospital
  + listing the items and treatments that were used each month, over the last year etc..
  + other reports?

Group reports included (when logged in as a physician):  
all reports are results of searchs

eg. person search shows patient stuff and associated physician, physician is pulling in data from the people table - technicians Didn't work :) The 'floor plan' report is pulling in patient, doctor, person, room care\_center but NOt treatments

**Evaluation:**

* 9/10 marks - provide core functionality listed above using a PHP (or Java) Web Application Framework
* 5/6 marks - this component of the mark will evaluate ADDITIONAL functionality and WOW factor. Have you made use of AJAX anywhere to provide an improved user interface? YOUR application should have at least 2 additional features to the core requirements. For example, you might implement a floor plan view:
  + HTML5/CSS/JavaScript view that displays an overview of the floor plan, and possibly color-code the occupancy, and maybe some visual indication as to which doctor(s) are on duty in each area. I will disucss more in class.
  + Patient view for patients in critical condition showing vital signs, etc.. this could just be simulated since I realize you don't have real patients
  + Your own IDEAs! -   
    Dave - Room map with AJAX, Qtip..
* 3/4 marks - Quality of site design, CSS etc... Looking at other software systems available why would I want to purchase your system?

could have done a but more with CSS, design

* 4/4 marks - Files are organized, and code is properly formatted and documented with PHPDocComments or single line comments where appropriate. Code has been committed to VERSION Control System - I'll ask you to show me your revision history.
* 5/6 marks - Presentation of Web Application

some technical issues during presentation... AD IP address was moved? Prezi was Excellent.

* **TOTAL 26/30 marks**

**2 - Mobile Application**

Note: this was done exclusively by Dan

- demonstrated JSON login,  
- pushing and pulling patient records

This component of the final project should require less of your programming resources than the web application, mostly since you've had more experience and instruction working with web applications than you have with Android.

The mobile app should meet AT LEAST these **core** requirements:

* app has ability to exchange data between Android and the central health clinic database to display patient information (e.g. if being used by a doctor). These transmissions should also be encrypted if possible.

OK - not encrypted transmission but I guess I did say 'If possible'

* ability for doctor to view and edit a patient's record from the remote application

Yes, associates stuff based upn patient's email

* use at least 3 components from the invididual Android projects as part of the application to implement other functionality. Note, these should be available (with source code) by accessing them at:
* http://dev.itas.ca/~personFirstName.LastName/android/index.html - Dave - didn't check but retrieved with GIT repo which is better anyways
* The application has to do something that couldn't be done simply by accessing the Web Application with a mobile browser...

Other functionality might include: ability for a doctor or nurse to take a picture of a patient, and associate this with the patient's file

Sending picture to server Base64 encoded

* ability for a doctor to dictate patient notes (e.g. Using Google's Voice-Text API)

Dave - yes, speech to text with extra\_results

***If you have a different idea for an Android application that could used within the context of the NHC please propose this to me BEFORE Reading Week.***

**Evaluation**

* 4/4 marks - Met core requirements listed above
* 1/1 mark - Code is documented and committed to version control system

Good, thanks for taking the time to merge the two programs together!

* 3/3 marks - Additional functionality

Excellent, JSON data exchange, photos, Voice to text, UI development

* 2/2 marks - Demonstration of working product and technical presentation
* **TOTAL 10/10 marks**

**PARTICIPATION**

You are expected to be in class every Tuesday working on the project, at least from 9-2pm. Not including reading week, there are only 6 class periods to work on this project. This isn't a lot of time and you will have to carefully divide the work amongst your group members.

Since a lot of people missed the first class where we started working on this project, there are only 5 classes remaining. Your final mark will be multiplied by:

Grade = GroupMark \* (numClassesAttended / 5 );

So, if your group mark is 80%, and you miss one more class, your mark will be:

80 x (4/5) = 64 %.

Of course if you are really sick this participation rule won't apply, however I may require you to show a Doctor's note.

**Additional NOTES:**

- I believe one of the hardest skills on software development is learning how to share code, and 'divide and conquer' by each picking off pieces that need to be done, working on these individually, and then as a team merging your code together. I will help you get started 'dividing up' your projects in class next week.

- I will discuss more about version control systems in class next week.

- To assess the code that has been written and to ensure all members of the group have an understanding of the code they've worked on, I will ask you some individual questions about the part of the project you have worked on. I don't require you to know the inner workings of a library you are using, but you should have an ballpark idea what each function call is doing and why you've written the code the way it is vs. copying an example from the book. I might ask you to make simple changes e.g. to how the layout appears or to add an extra field to an entity and have this save in the database etc... If it's obvious you haven't done any coding I RESERVE the right to assign a lower mark to individual group members rather than assigning the same mark for everyone in the group.

- I haven't decided exactly how I will implement this, however I will have some sort of peer evaluation that will allow your group to weight which group members have contributed most to the project. PLEASE keep track of your hours - I will discuss this more in class.