Project Documentation

Background

The purpose of this project is to manage my weight and track my sleeping hours to keep a heathy schedule. The system needs to be able to record my weight changes and sleeping hour changes and make graphs for me. By using this system, I do not need to write down the changes every day and I can review the records easily.

Current Objectives

The application should be able to enter new records for weight and sleeping hours, show me the record history, visualize the changes, and generate the reports. All functions are associated with buttons. There are macros to capture the username and today's date from system automatically when click the button. There is a function associated with button to hide or view all worksheets in the Excel.

Buttons and macros:

- New Record: NewRecord
- View Records: View
- Hide worksheets: Hide
- Export Report: Export
- View Graph: Graph
- Change Target: Change
- Export Graphs to Word: CreateWordDocument

User Interaction

The user will interact with this application via buttons on the dashboard. There are detailed instructions on the dashboard and each user form. I have a dashboard and 6 user forms in Excel. The dashboard is used to interact with the application by clicking the buttons. The user can use frmHide to hide all the worksheets. frmRecord is used to select what kind of data the user wants to record, weight data or sleeping hour data. frmSleep is the form for recording sleeping hours data, and frmWeight is used to record weight data. frmTarget can be used to change the target weight and target sleeping hours. frmView can unhide and view all the worksheets. If the user wats to generate the health report, he or she need to click the button called Export Report on the dashboard. Button Export Graphs to Word button will generate a Word document with graphs. View Graph button can refresh the Graph sheet since all the graphs are dynamic. If the user enters new records, he or she must click the View Graph button again to refresh the worksheet to see new trends on graphs.

Scope

I used Excel, Word, and Access for this project with 80%, 10%, and 10% percentage of use. Graphs in the Excel will be exported to Word, and the data recorded in Excel will be stored in Access. The user must click on the button on the dashboard in Excel to generate a Word document.

Deliverables

The user will be able to generate a report as a text file named HealthSummary and a graphs Word document named Graphs. There is an Access database file called database used to store the record.

Constraints

The user must import worksheets from Excel to Access every time when he or she finishes record data. Access cannot store the data in Excel automatically. This part of project is more of a representation of a design. I will continue to figure how to generate tables in Access automatically from Excel using SQL.

Assumptions

All users have already added the Word Object Library from Reference. If the user does not do so, some buttons will not work. Also the all the file should be placed under C:/TEMP folder.