EEE 13 Machine Problem 1: Schedule Display

Deadline: 3rd Week of August

Objectives
- To create a graphical interface using HTML
- To create a working HTML-based application
- To demonstrate client and server processes via CGI
- To be able to handle database management
- To apply the methods learned from lectures and previous machine exercises

Description

A *schedule visualizer* is a tool that can be used to display a subset of class schedules that contains the following information:
- Teacher
- Subject
- Room
- Day
- Time

The application will consist of three webpages:

a. *Homepage*

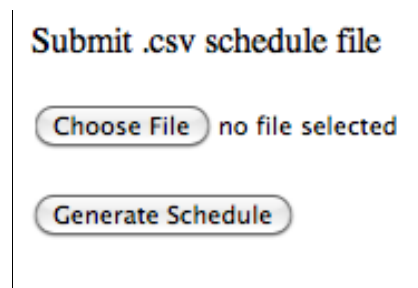In the homepage, an upload bin will ask for a CSV file of class schedules .

Figure 1: Homepage screenshot

Pressing the "Generate Schedule" button will upload the *.csv file to the server.
The *.csv file will then be parsed in order to populate your SQL database.

b. *Options Page*

In the options page (see Figure 2), the user will be asked of information to be displayed in the schedule to be generated.
The options are:
- a schedule of a particular Teacher
- a schedule for a given Subject
- a schedule for a specified Room
- any combinations of the three

The inputs are case sensitive, that is, it must be exactly the same with what exists in the database.

Figure 2: Options page screenshot

c. *Schedule display page*
Depending on the chosen options, a particular schedule will be displayed as shown in Figure 3.

Figure 3: Schedule display screenshot

Each cell contains the Subject, Teacher, and Room.
Provide links for requesting another schedule (Options page) or generating a new database from a *.csv file (Homepage).

Provided Resource
The *.csv file containing the class schedules will be provided.

Documentation
A complete documentation is required for the machine problem. The documentation should include the following:
- flowchart/algorithm used to solve the problem
- description of the functions used, including the parameters and return types
- problems encountered in solving the problem
- user manual for the game

Submission
All files used should be saved in a single .zip file with file name EEE13MP1_LastName_Firstname.zip e.g. EEE13MP1_Tang_Alvin. All submissions are online via e-mail to chow@eee.upd.edu.ph.

Point Distribution

- 20%: Program can upload the *.csv file to the server.
- 25%: Program can parse the *.csv file
- 20%: Program can populate the SQL database of schedules
- 25%: Program can display proper schedule
- 10%: Complete and proper documentation.