EEE 13 1st Semester, 2011-2012

Machine Exercise 6

Database

For this exercise, we will be able to integrate MySQL database to HTML forms and CGI. The resources that will or can be used in this ME are found in the EEE 13 website.

1. (10%) Create a table using the following schema:

Grocery (

item varchar(20),

price int)

Note: Create the table using MySQL only. Prices are positive integers only.

1. (10%) Program can insert data into the table when ‘Insert’ button is clicked. Program should not insert incomplete data.
2. (20%) Program can print all the information about the selected data when ‘Select’ button is clicked. Use only the ‘Where’ fields.
3. (20%) Program can update data on the table when ‘Update’ button is clicked. The ‘Where’ fields are used to find the data to be updated. The other fields contain the data that will replace the original data.
4. (10%) Program can delete data on the table when ‘Delete’ button is clicked. Use only the ‘Where’ fields.
5. (20%) Program can handle blank fields. If the ‘Select’ button is clicked, all data on the table must be printed. If other buttons are clicked, an error message should occur.
6. (10%) Program can print selected data with the proper table format.

Resources Provided:

1. me6.html – An HTML file that will be used in the ME.
2. me6\_alpha.c – A C file that handles me6.html and parses the string produced by the HTML forms.
3. testsql.c – A sample C file that integrates C code and MySQL database.

Note: Compile the C file using the command:

gcc –o <exe\_file> $(mysql\_config --cflags) <c file> $(mysql\_config –libs)