As a first step towards developing a web-accessible database application, you need to familiarize yourself with HTML programming, CGI programming, and embedded database programming. The tutorials for those programming techniques are available at http://people.eecs.ku.edu/~jhuan/EECS647/additionalFiles.html.

To help you go through the tutorial, you are assigned with the following task.

(a) Create a database in your PSQL account with the following relational schema:
    RegiUser( Userid: string, passwd: string, privilege: string). There are only three types of privilege code: “customer”, “staff”, and “manager”.

(b) Design a website that can accept a userid and a passwd from a customer. The website should have a button that once clicked, the userid and passwd will be stored in the User database through a CGI program (detailed below). A sample interface is shown below.

(c) Write a CGI program that accepts the userid and passwd from the website and store the userid and passwd in the User database. The default privilege code is “customer” for all online registrations.

   Required error checking in the CGI programming:
   1. A valid user id is a string that contains characters in [a-z],[A-Z], and [0-9] only
   2. A valid passwd is a string that contains characters in [a-z], [A-Z], [0-9], and {!, @, #, $, %}. A valid passwd must have at least 4 characters but no more than 30 characters.
   3. Before that the CGI program inserts a customer row into the User database, the userid need to be checked to make sure it does not exist in the database. If the userid exists, the CGI needs to notify the customer that the userid has been used by other people.

   PERL CGI programming will be covered briefly in the class. However, you may choose any one of your favorite programming language to implement the CGI program. You are responsible to go through the on-line tutorial where ample code samples have been provided. The User database must be created using our PSQL DBMS in EECS.
**Scoring:**
Interface design: 20pt (style, correctness)
Database design: 30pt (table creation)
CGI programming: 40 pt (correctness, error checking)

**Submission:**
Electronically submit your url to the grader of this homework asmalter@eecs.ku.edu. Url only, no source code. The subject of your submission should contain “EECS 647 HW 3”.