CSci 4243-4: Senior Design

HW5: Pseudocode Homework

You will develop the pseudocode for your Senior Design Project. Every project must include the pseudocode design for all components, the documentation of any APIs that you intend to provide, a list of all the major algorithms you plan to use, and a description of any data structures you plan to use. You must all identify and describe all external APIs that you plan to use. You should design this carefully, and should consider boundary conditions. While the pseudocode may change during the implementation phase, you should make every attempt to avoid having to do so by thinking critically during this stage.

Additionally:

1. For all projects with a graphical user interface:
   a) Include a depiction of all major screens including the screen visible during “first load”.
   b) Convey the workflow through the screens – you can do this with a slide show, or through another method but it must be apparent how a user should navigate and explore the application
   c) Identify external interfaces, algorithms, and data structures, if any, that are associated to each screen

2. For all projects without a graphical user interface:
   a) Clearly identify and describe the interface through which a user interacts with your software
   b) Consider how you will demonstrate your final product: identify and detail the workflows you plan to demonstrate and describe how you plan to demonstrate them
   c) Associate the algorithms, data structures, and interfaces associated with each part of the workflow

3. For projects that use network communications
   a) Identify and describe the protocols/data-formats you will use between components
   b) Provide details of any security mechanisms you will provide to secure those communications
   c) Describe how your application will handle communication failures and how/if you will provide feedback to the user

**Deliverable:** E-mail your design to cctoombs@gwu.edu prior to the start of class on 02 October 2013. The customer (the instructor) prefers PDF documents when possible. The subject line must read: “CSci 4243-4 HW5: <GW NetID>” where <GW NetID> is replaced with your GW NetID. For example, the subject line for a submission by Chris Toombs will read “CSci 4243-4 HW5: cctoombs”.