CSI 4139 / CEG 4394
Design of Secure Computer Systems

Laboratory #4
Due: November 23, 2017 (written reports due November 27, 2017)

Lab #4 is being organized and run by a local company called SoftwareSecured. They have created a dummy social networking application (called FaceBroke 😎) that has a number of bugs deliberately installed in it.

Your lab task will be to find these bugs and explore ways to make this application more secure.

Two guys from SoftwareSecured, Sherif and Matt, will run the labs (along with Arthur), including presenting an extensive tutorial on common vulnerabilities in Web applications and giving instructions regarding what you need to do for your lab code and for your lab written report. There will also be an opportunity for bonus marks on the lab, which they will explain. **Please ensure that you arrive at your lab on time so that you hear the full presentation and all the instructions.** (Note that everything done in Tuesday’s lab slot will be repeated in Thursday’s lab slot for the other group of students.)

The lab itself can be done using the existing lab machines (because only a Web browser is needed), but Matt recommends bringing your own laptop because (1) a couple of particular Chrome extensions may make your life easier, and (2) the bonus mark portion will require setting up a development environment to run the application and this may be simpler on your own machine. Matt and Sherif will give detailed instructions about setting up your machine with whatever is needed to do the lab.

_As with the previous labs, Lab #4 can be done in groups of up to 3 people. However, even if a group works together, I recommend that each group member brings a laptop and does the tasks on his/her own machine (in order to maximize learning)._