**Secure Web-Based Systems - Fall 2017**

**CS 4339/5339 - Professor L. Longpré**

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**Assignment 2, modifications and update**

**Program URL:**

<http://cs5339.cs.utep.edu/jacabreramaynez/assignment2/assignment2.php>

This assignment took me approximately 8-10 hours to complete, over the course of 3 days. I found that for this assignment there wasn’t a particularly big problem to tackle, it was instead a collection of small issues that added up and became a big problem itself. One of the first issues I faced had to do with using global variables, which works differently on PHP than on Java. I had to rewrite some parts of the code to account for this, since I had also forgotten that PHP needs to use the $this-> for accessing in-object variables. The second biggest issue I had involved how PHP reads input from files, specifically with how fgets() reads lines including any special characters that may be contained within. This was preventing the Lexer from starting to generate tokens. What I did was use to the trim() function to remove all whitespaces and special characters from the input, which worked well until the Lexer reached a section with two consecutive assignment operations, which was joining two variable names into a single string. To solve this, I added a whitespace between each line to separate them and avoid issues with the Lexer. Apart from that all other remaining issues were mostly typos or syntax errors, such as forgetting to include an $ in front of a variable or trying to access a method or variables using the dot operator instead of “ -> ” or “ :: ”.