**COP 5611 - Advanced Operating Systems**

**Weekly Project Report - 4**

**Team: Diablo**

**Coding Implementation Design:** We decided to design the implementation for the apriori application to retrieve the design patterns. The apriori method as we discussed cannot be implemented in its raw form. The reason for this is that the log files that we need to process are very large and we would need to perform optimization methodologies to the original implementation of the apriori algorithm over Perl. We would need to also use a suitable support level for the optimal number of repetitions for a set of url visits to be considered as a pattern.

**Team member: Gaurav Sinha (gs13h)**

I worked on the following part related to the implementation:

I worked on the coding implementation that is related to reading the input file containing the list of sessions into a Perl array and then counting the number of distinct single entities or elements in this array.

**Team member: Harish Chetty**

I worked on the following part related to the implementation:

I started working on the implementation that is related to the fact that there would be a hierarchy of levels for the patterns to be deciphered. That is, a pattern could be found as a set of single entities or it could be a tuple of two or more entities.