**Coding Assignment for CS 499 – due November 12th**

**(at start of class class, not after!)**

The Coding Assignment of the project is to perform the implementation and testing for the project and to present the results to your peers. Here are the things you must prepare by November 12th. ***General Note: Include descriptions of all diagrams. They do not stand alone.***

1. (50 points) Implementation
   1. Source code listing with in-line comments

Hold a quality review of the code, describe the process you used (or checklist), list any issues you found

* 1. User’s manual – format of your choosing
  2. Administrator’s manual (configuration) along with System requirements and Installation – format of your choosing – note that this may be one paragraph of text

1. (25 points) Testing
   1. Test plan, test cases, test results for one level of testing **in addition to** acceptance testing (unit or integration or system **PLUS acceptance**) – you must perform all these levels but must only provide deliverables **for acceptance testing plus one other level**

Hold a quality review of the test plans and test cases prior to testing, describe the process you used (or checklist), list any issues you found

1. (5 points) Technical Metric Collection (seek “waiver” for metrics that do not apply)
   1. **Estimated story points (or lines of code or function points)**
   2. **Actual lines of code (or function points) – as implemented**
   3. **Complexity of each module (class or method) (such as McCabe’s cyclomatic complexity, Module coupling indicator for each module (from Chidamber-Kemerer (CK) metrics), Weighted methods per class (for each class) (also from CK metrics))**
   4. **Complexity of overall system (such as depth of inheritance tree, Coupling between object classes (both are CK metrics))**
   5. **Product size (such as number of user stories, number of acceptance test plans, etc.)**
   6. **Product effort (number of person hours for this assignment)**
   7. **Defects (number detected during the quality assurance reviews, if any)**
2. (10 points) Keep the developer’s notes and website and repository (git, svn, etc.) up to date
3. (10 points) Demonstration of the project to customer/professor OR video of demo

6. Presentation of Results to Class (week of November 12th) – separate grade

* Each team will **have 7 minutes** to present their results
* You may use the document camera, transparency slides, PowerPoint slides, posters, or the white board
* Your presentation must present the major aspects of this assignment (you will not have enough time to show all the items developed, choose what to highlight)
* You will also be presenting the results of the maintenance assignment to the class later in the semester. Make sure that each team member speaks during one of the three presentations.

The project may be typed (word processor, graphics package), in spreadsheet format, or a combination of these

All assignments must have the names of your team members, course number, semester, project phase number, and date