**Assignment 5**

Start Assignment

* **Due** Sunday by 11:59pm

* **Points** 100

* **Submitting** a file upload

* **File Types** pdf

* **Attempts** 0

* **Allowed Attempts** 3

* **Available** Aug 12 at 12am - Sep 1 at 11:59pm

Students who have taken the GRAD 695 course with me:

* Submit a zip archive of the code implementing the control objects in your project. The code must be throughly commented to show the relative correspondance between your implementation in the source code and design of each control object in your proposal report.
* Refer to chapter 2 Meaningful Names, chapter 3 Functions, chapter 4 Comments, and chapter 5 Formatting in the *Clean Code* book on how to document your code properly.

Students who have not:

* Read thoroughly sections 5.4.3 of the *Object-Oriented Software Engineering* book.
* Using what you have learnt in the sections above, identify all possible control objects in your project. To discover your control objects, apply the heuristic for identifying control objects shown on page 184 of the textbook
* For each control object, list the use cases in which it is involved.
* Write a brief description of each control object using the format in Table 5-4 on page 185 of the same book.
* Write the description of associations among objects. An association is identified by a name, multiplicities and roles attributed to each object on each side of the association. To discover assocations among your objects, apply the heuristics for identifying associations on page 191 of the textbook.
* Write the description of aggregates among objects if there are any. Refer to section 5.4.7 in the texbook.
* Show the list of attributes in each object. Apply the heuristics for identifying attributes shown on page 194 of the texbook.
* Draw a UML class diagrams showing all the identified objects, their relationships and their attributes, data types, visibility and methods similar to the diagram shown in the top half of Figure 9-3 on page 355 of the same book. Refer to the UML class diagram tutorial posted in this course module.
* Submit all descriptions and drawings in a single document.