**CSC305 UML Class Diagram 2 Exercise 2**

**Exercise 2: create a diagram**

Consider this system description for a book publisher: “A **book** is written by one or more **author**s who could be working on other books, too. A book consists of **chapter**s. Each chapter, as it is written, will briefly need a **proofreader** to review it. Each book has an **editor** who manages its publication. Both editors and proofreaders are kinds of **employee** at the publisher.”

**Self-check before turning in your work**

* Have you identified the six classes and drawn them as labeled rectangles?
  + Note that pretty much every OOP language adopts the practice of Capitalizing Class Names, so UML does, too.
* What sort of relationship is implied by "a book is written by one or more authors"?   
  + Hint: if a book is abandoned/deleted, do the authors cease to exist?
* What about the relationship between book and chapter?
  + Hint: presume that if a book is abandoned/deleted, all its chapters go away, too
* How do you show the "briefly need" relationship between a chapter and proofreader?
* Does this line show dependency/usage by being dashed and having an open “V” arrowhead on the Proofreader end? (“…chapter… need[s] a proofreader”)
* How do you show that an editor is a "kind of" employee? Same for proofreader.
* Are connecting relationship lines drawn at right-angles and without crossing when possible?