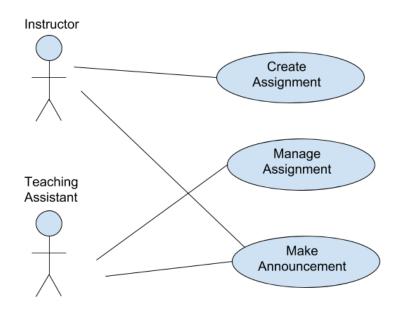
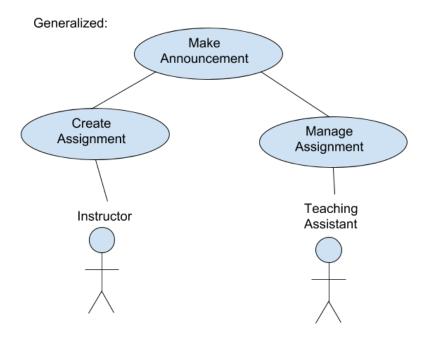
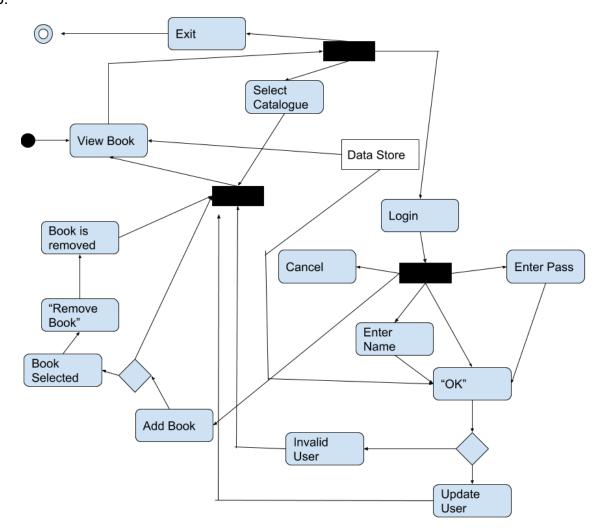
Assignment One Ryan Lebeau COMP-3220

 Yes, both diagram a and b represent the same data. In diagram a the professor and student both query the student data directly whereas in b they reference an abstract class (research associate) who then directly queries the student data. Since this research associate is abstract, there is no difference if they where to go through that or directly query themselves.









:System

1	
	User adds book
4	System adds book
	User selects book
	and clicks remove
•	and clicks remove