Within the class diagram, shown on 3.2, there are two inheritance hierarchies involved. The first hierarchy is the resources hierarchy, which generalizes the shared attributes of the various resources. Laptops, Books, and DVDs are all a kind of resource. As such, the subclasses specialize the attributes and behaviors of the different types of resources, including: Laptops, Books, and DVDs. As indicated in the class diagram, Resources is an abstract class containing multiple abstract methods. With the use of abstract methods in the superclass, each of the subclasses can have their own methods of implementation. The second hierarchy involved with the class diagram is the accounts hierarchy. Here the attributes of an account are generalized in the abstract class called AccountBaseUser. User and Librarian are both a kind of account. The specialized attributes and behaviors of different types of accounts, users and librarians, are then introduced within subclasses User and Librarian.