Write a couple of paragraphs describing the inheritance requirements of your system, and the rationale behind your choice.

As the system was required to have one superclass and two subclasses, the *Resource class* was implemented.

Both the *ElectronicResource class* and *Book class* inherits from this class. The reasoning for the implementation of inheritance in such a way is twofold:

- 1. Many of the data fields and methods constructed in the *Book* and *ElectronicResource* classes are one and the same and therefore for the clarity and conciseness of the Library System it is efficient to add an additional class from which both inherit.
- 2. The catalogue *Library class* data field stores all resources in one ArrayList regardless of whether the object is the instance of the *Book* or *ElectronicResource class* therefore it is practical to implement a class that makes use of the similarities between these subclasses and form a superclass.

It is worth noting that pragmatically the *Resource class* is not intended to be instantiated, it only fills the purpose of an extension of the other two classes due to the polymorphic qualities of inheritance.