Jonathan DeBellis

PA01 – Implementing an Object-Oriented Program with Unit Tests

**Scenario & Noun-Verb Analysis**

Mark is a full-time student and on his summer break he has been continuing his studies at the local library with an online membership account. He already has two books checked-out on his user account that he would like to return before getting a new one checked-out. After entering his user id, he sees that the librarian has notified him through the library app messages that one of the books he has checked-out is passed due on its return date and his account has been charged a late fee. Due to this, Mark will have to check-in the other book and pay the late fee that has been charged on his account before he can check-out another book. He pays the fee on his account, then he searches the library book database for the book he is interested in. After conducting a quick search, he finds that there is an electronic book version available in the library database. He selects that book and sends a message to the librarian on his account requesting access to the electronic book. The librarian views the message in their account inbox and allows Mark online access to the electronic book on his account by adding the book to his member account book list. Mark is then notified of his new book by a message.