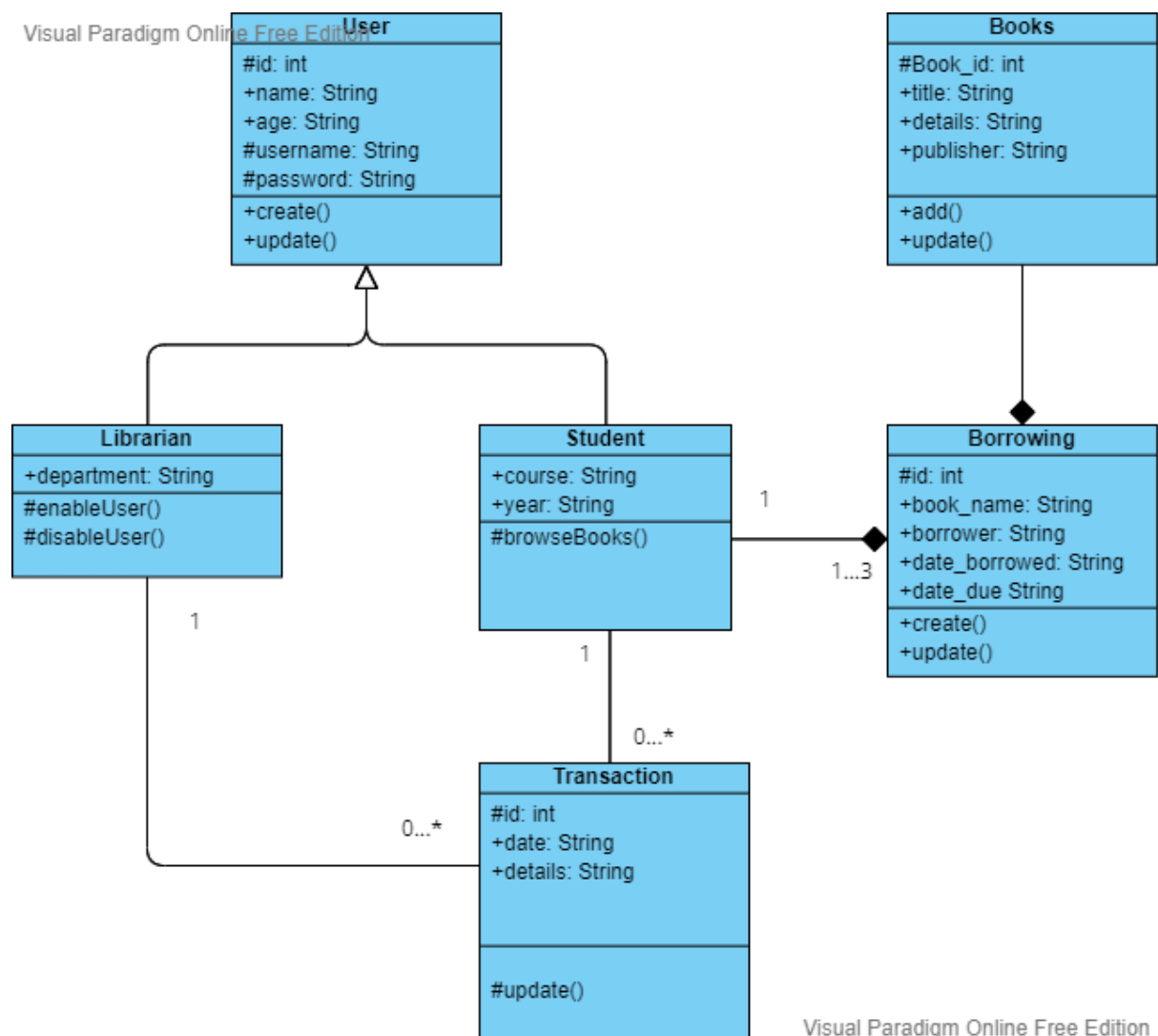# Architecture Design Assignment

1) You are working in company XYZ required you to develop a design package for library, and develop the following diagram:

   a) Class Diagram
   b) Sequence Diagram for borrow a book from library

Answer:
a) Class Diagram

User
#id: int
+name: String
+age: String
#username: String
#password: String
+create()
+update()

Books
#Book_id: int
+title: String
+details: String
+publisher: String
+add()
+update()

Librarian
+department: String
#enableUser()
#disableUser()

Student
+course: String
+year: String
#browseBooks()

1   1...3

Borrowing
#id: int
+book_name: String
+borrower: String
+date_borrowed: String
+date_due String
+create()
+update()

1

1

0...*

0...*

Transaction
#id: int
+date: String
+details: String

#update()

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b) Sequence diagram