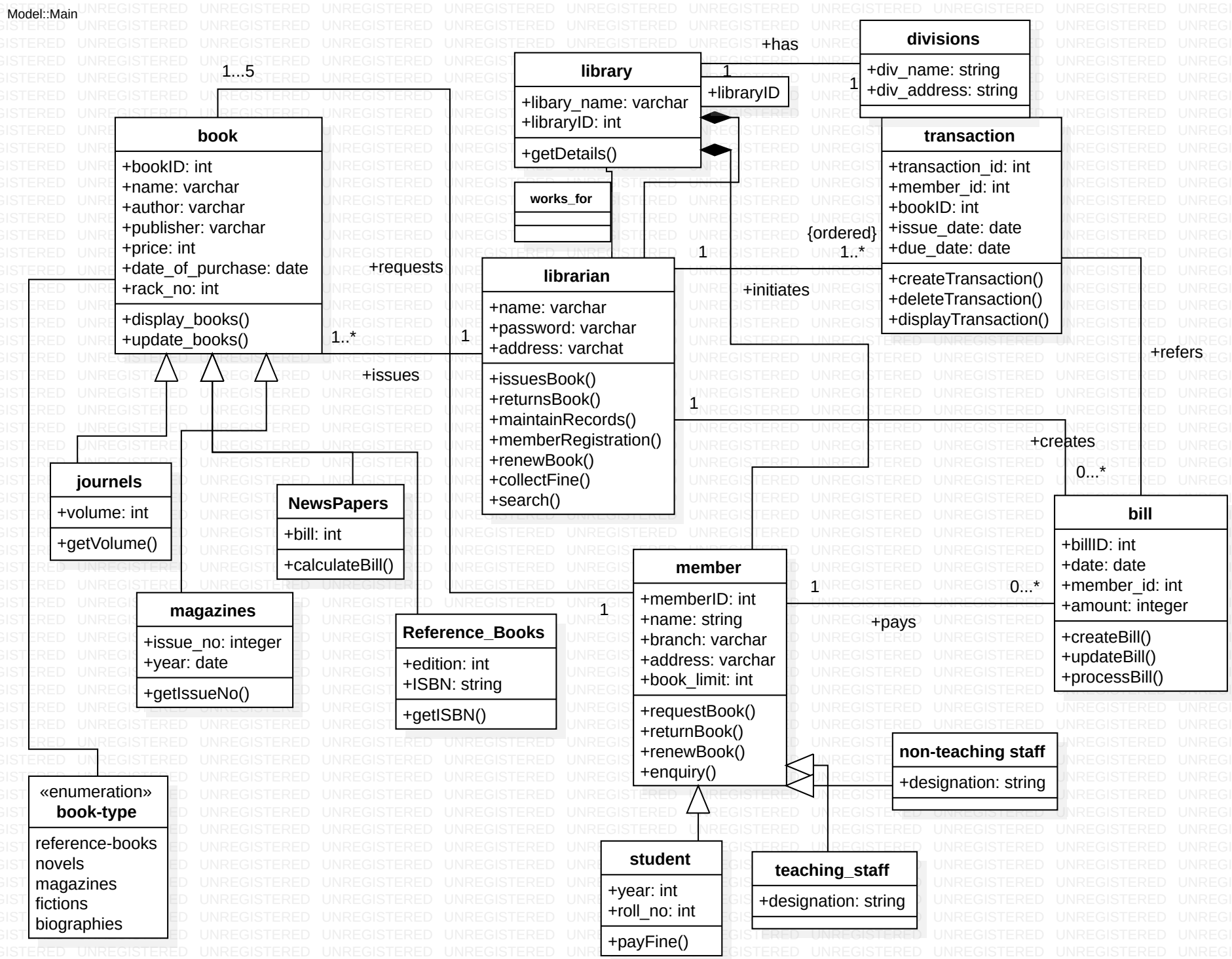
Model::Main
divisions
+div_name: string
+div_address: string
+has
1
1
library
+libary_name: varchar
+libraryID: int
+getDetails()
+libraryID
1...5
book
+bookID: int
+name: varchar
+author: varchar
+publisher: varchar
+price: int
+date_of_purchase: date
+rack_no: int
+display_books()
+update_books()
works_for
transaction
+transaction_id: int
+member_id: int
+bookID: int
+issue_date: date
+due_date: date
+createTransaction()
+deleteTransaction()
+displayTransaction()
{ordered}
1..*
1
+requests
librarian
+name: varchar
+password: varchar
+address: varchat
+issuesBook()
+returnsBook()
+maintainRecords()
+memberRegistration()
+renewBook()
+collectFine()
+search()
+initiates
1..*
1
+issues
1
+refers
+creates
0...*
journels
+volume: int
+getVolume()
NewsPapers
+bill: int
+calculateBill()
magazines
+issue_no: integer
+year: date
+getIssueNo()
Reference_Books
+edition: int
+ISBN: string
+getISBN()
1
member
+memberID: int
+name: string
+branch: varchar
+address: varchar
+book_limit: int
+requestBook()
+returnBook()
+renewBook()
+enquiry()
1
0...*
+pays
bill
+billID: int
+date: date
+member_id: int
+amount: integer
+createBill()
+updateBill()
+processBill()
non-teaching staff
+designation: string
«enumeration»
book-type
reference-books
novels
magazines
fictions
biographies
student
+year: int
+roll_no: int
+payFine()
teaching_staff
+designation: string