Osztálydiagram

Könyvtár
- -konyvek: List
- -tagok: List

- + konyvHozzaad(Könyv)
- + konyvElvetel(Könyv)
- + tagRegisztral(Tag)
- + tagKileptet(Tag)
- + konyvElerheto(string)
- + konyvElerhetoCimrol(string)
- + tagE(String)

If book = null then error endif
books.add(book)

If book = null then error endif if
books.contains(book) then
books.remove(book) else error endif

If member = null then error endif
members.add(member)

If member = null then error endif if
members.contains(member) then
members.remove(member) else error
endif

return ∃ b in books (b.title = title
AND b.isAvailable())

(return first b in books (b.title = title
AND b.isAvailable()))

return ∃ m in members
(m.idNumber = idNumber)

kezel 0..*

Regisztrál 0..*

Tag
- - nev: String
- - cim: String
- + igazolvany: String
- + tartozasok: List
- + tartozasiDij: Float
- + vanTartozasiDij: Bool

- + vanKesese()
- + dijFizet()
- + eppenKolcsonzottKonyvek()

return ∃ b in borrowings
(b.status = OVERDUE)

overdueFees := 0

return ∀ b in borrowings
(b.status = ACTIVE)

KesedelmiTabla

- +kesedelemSzamolas(Mufaj,
PeldanyKategoria)

return CASE
WHEN genre = NATURAL_SCIENCE AND copyCategory = MANY_COPIES THEN 20
WHEN genre = NATURAL_SCIENCE AND copyCategory = FEW_COPIES THEN 60
WHEN genre = NATURAL_SCIENCE AND copyCategory = RARE THEN 100
WHEN genre = LITERATURE AND copyCategory = MANY_COPIES THEN 10
WHEN genre = LITERATURE AND copyCategory = FEW_COPIES THEN 30
WHEN genre = LITERATURE AND copyCategory = RARE THEN 50
WHEN genre = YOUTH AND copyCategory = MANY_COPIES THEN 5
WHEN genre = YOUTH AND copyCategory = FEW_COPIES THEN 10
WHEN genre = YOUTH AND copyCategory = RARE THEN 30
ELSE 0
ENDCASE

Könyv
- - cim: String
- - szerzo: String
- - kiado: String
- - isbn: String
- + mufaj: String
- + peldanyKategoria: String
- + kikolcsonzott: Bool

- + elerheto()

return NOT
kikolcsonzott

kölcsönöz 0..5

Birtokol 0..*

Kölcsönzés
- + kolcsonzottKonyvek: List
- + kolcsonzesDatum: Date
- + kolcsonzesVege: Date
- + allapot: KolcsonzesAllapot

- + konyvHozzaadas(Könyv)
- + konyvVisszahozas(Könyv)
- + kesesiDijSzamolasa()

If book = null then error endif
borrowedBooks.add(book)
book.borrowed := true

If book = null then error endif
borrowedBooks.remove(book)
book.borrowed := false

return SUM b in borrowedBooks
(LateFeeTable.GetFee(b.genre,
b.copyCategory) * daysOverdue)