This the Factory method pattern. So the superclass don't have to intantiate the exact type of users, let the subclass to decide intantiate.

CheckOutFactory

+ CheckOutBooks(String type)() : <>CheckOut

<<enum>>
LimitBooks

- book : int
+ StudentLimitBooks : LimitBooks
+ GraduateLimitBooks : LimitBooks
+ ProfessorLimitBooks : LimitBooks
+ getBook() : int
+ setBook() : void

<>CheckOut

+ checkout()() : void

<<enum>>
LimitDays

- days : int
+ StudentLimitDays : LimitDays
+ GraduateLimitDays : LimitDays
+ ProfessorLimitDays : LimitDays
+ getDay() : int
+ setDay() : void

GraduateCheckOut

+ checkout()() : void

StudentCheckOut

+ public void checkout()()

ProfessorCheckOut

+ public void checkout()()