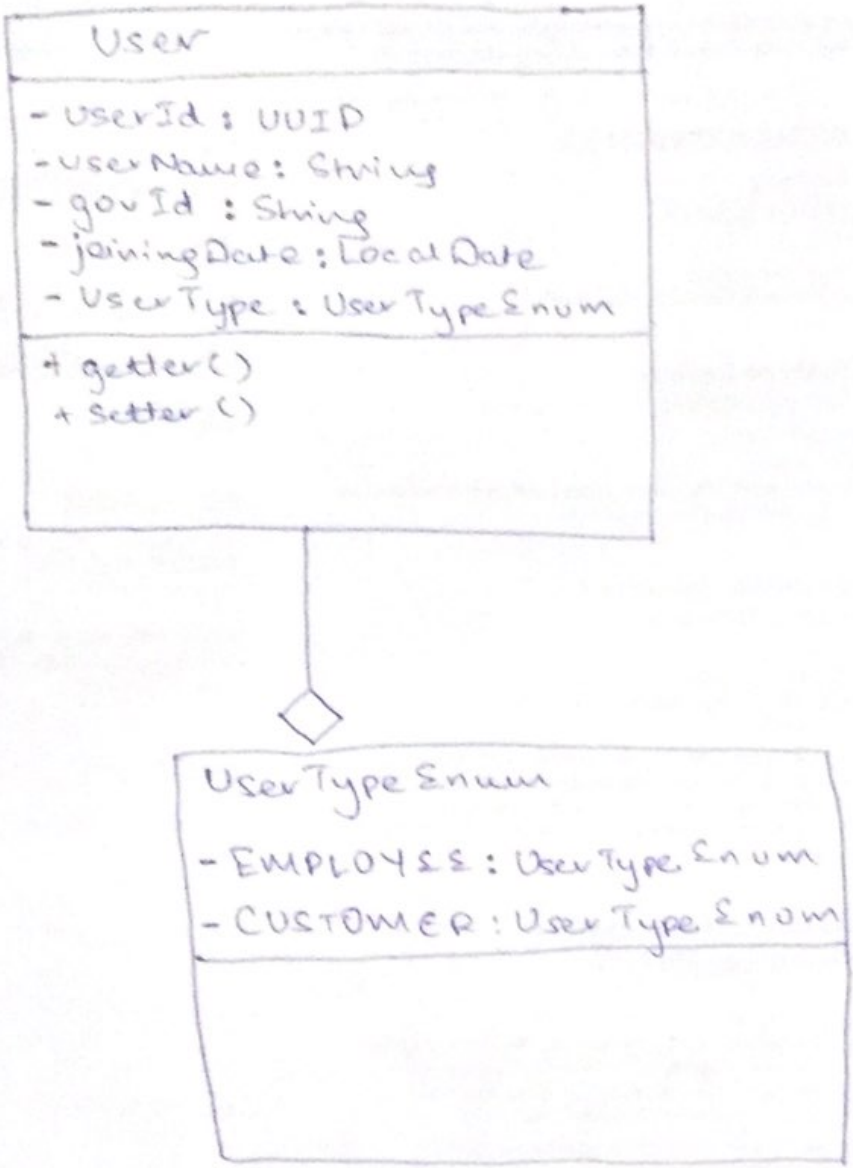
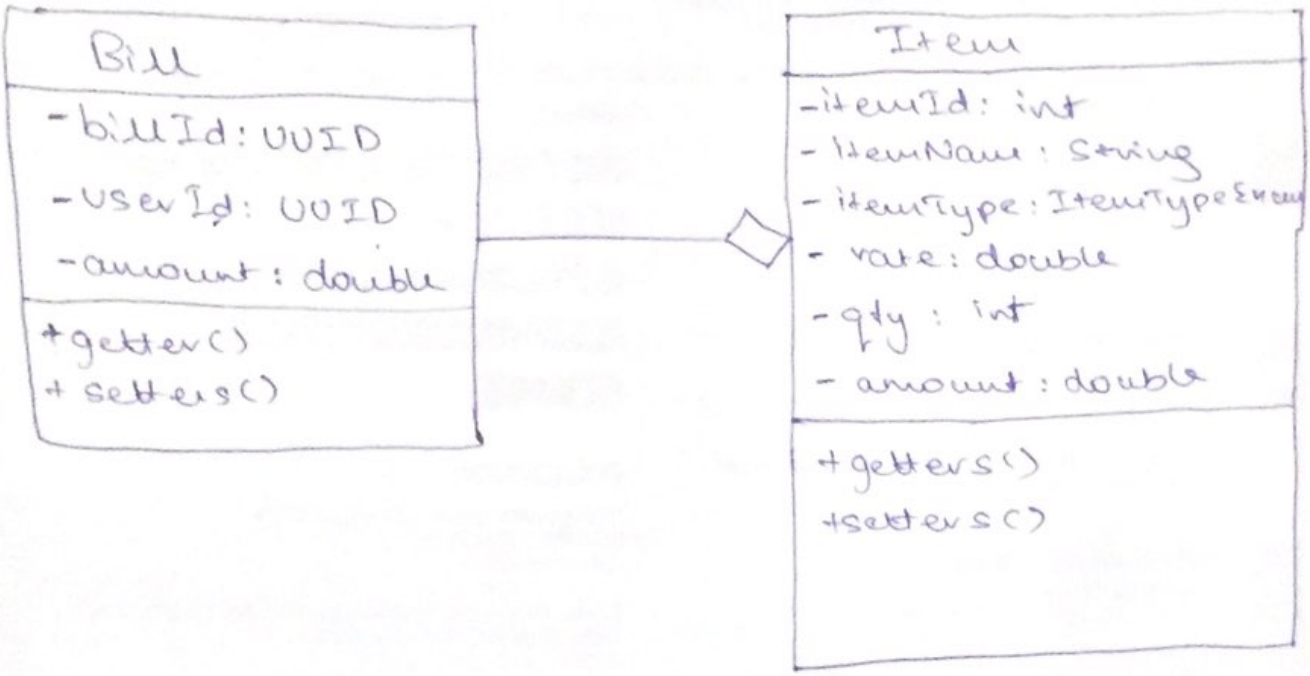
* Models :

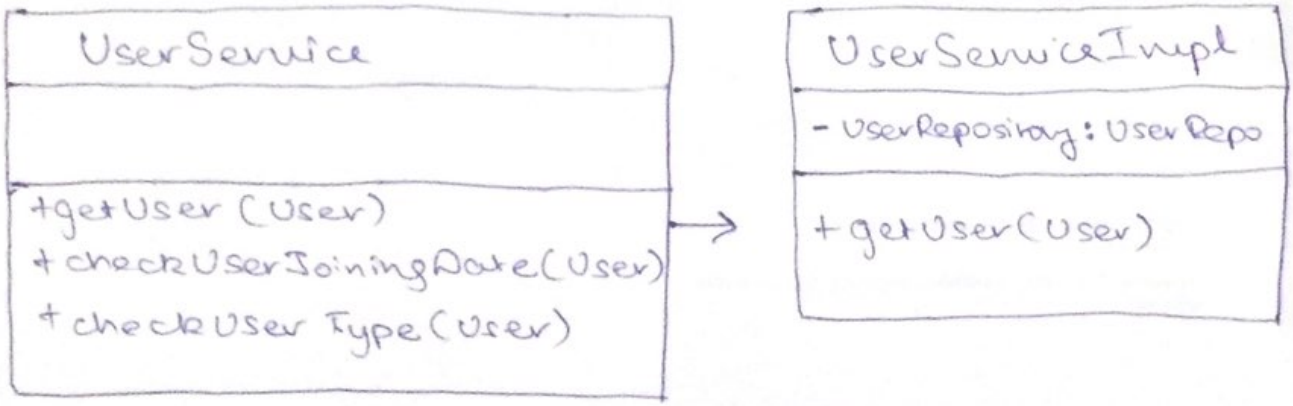
1) User

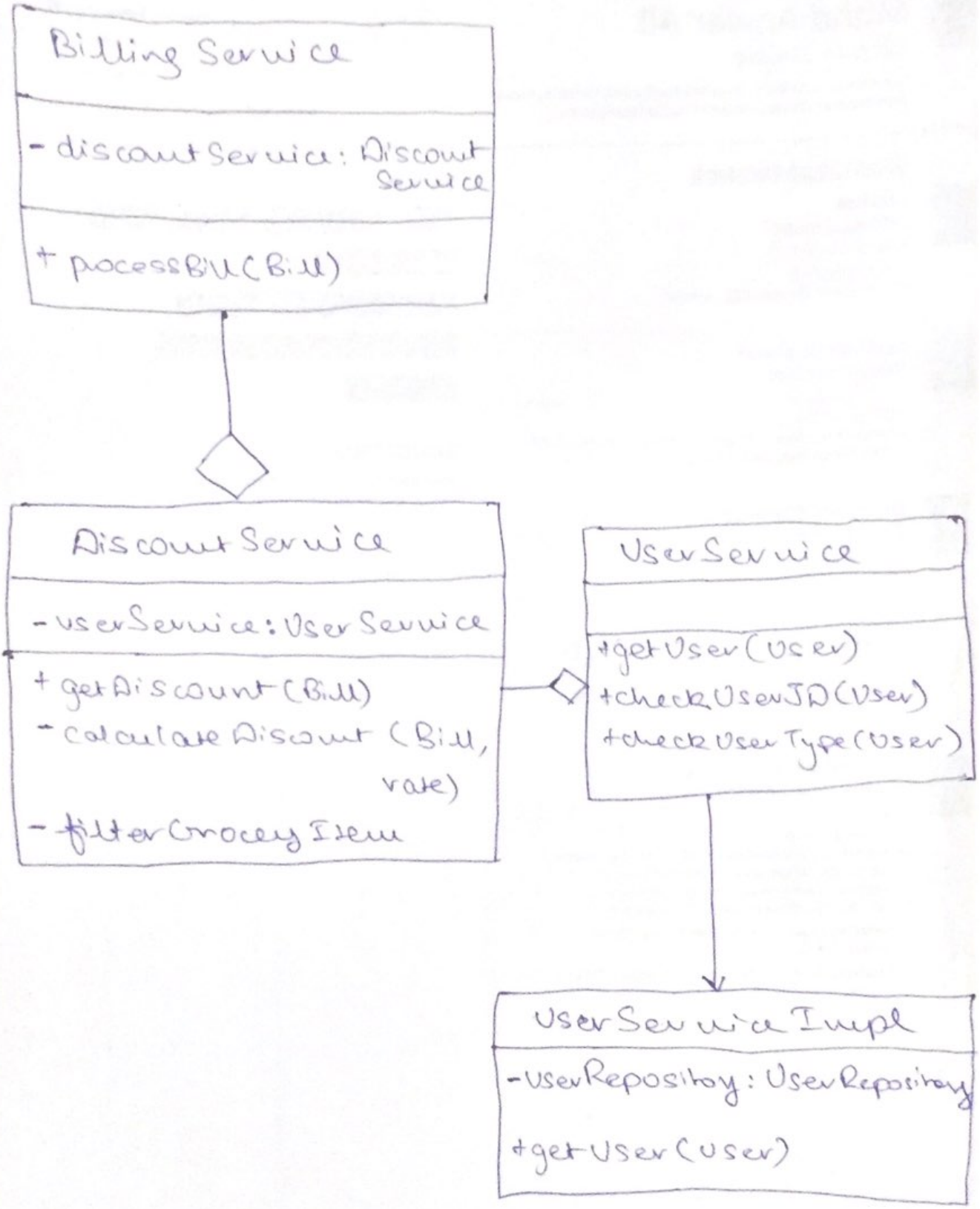


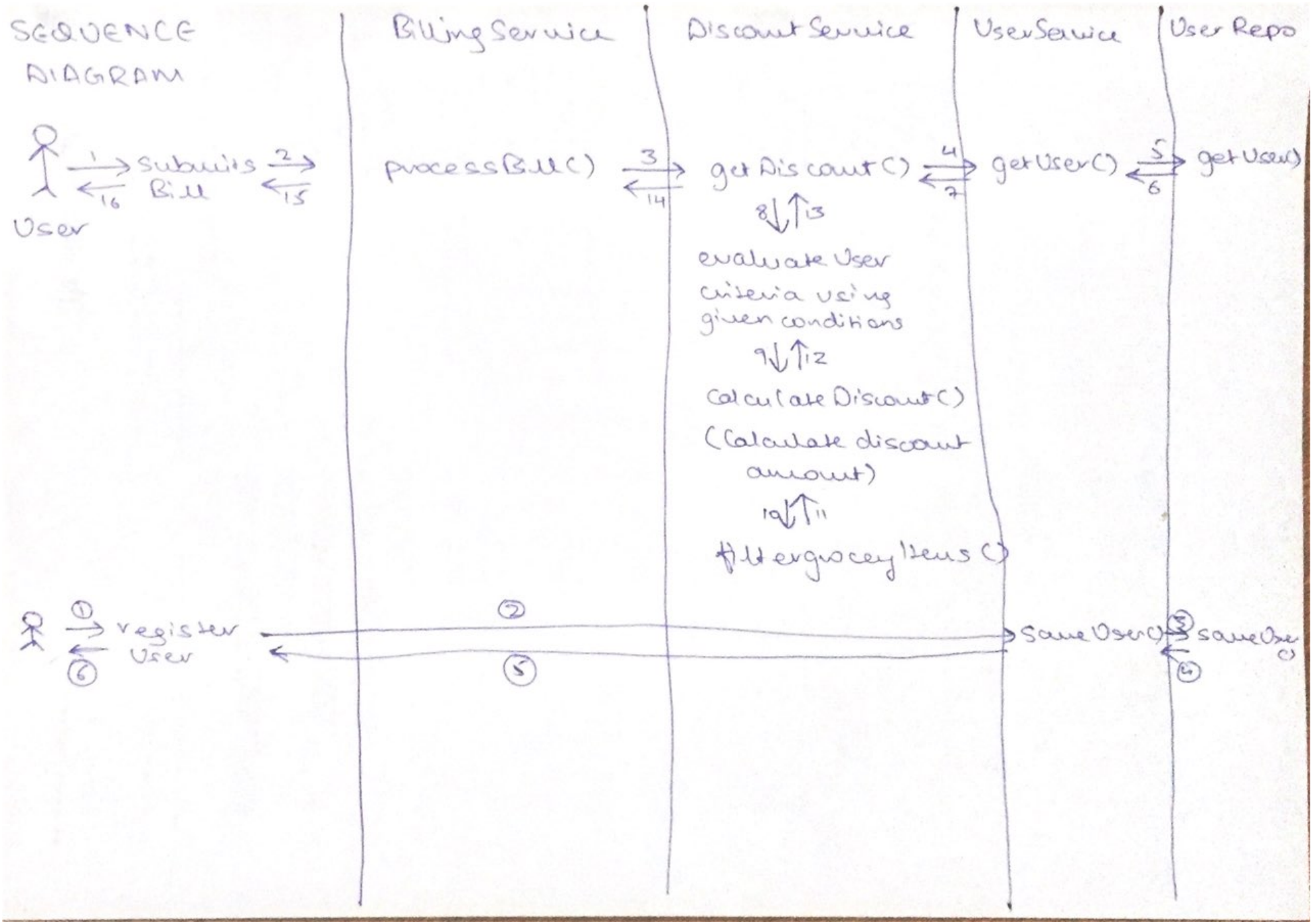
2) Bills



* Services




Billing Service
- discountService: DiscountService
+ processBill(Bill)
DiscountService
- userService: UserService
+ getDiscount(Bill)
- calculateDiscount(Bill, rate)
- filterGroceryItem
UserService
+getUser(User)
+checkUserID(User)
+checkUserType(User)
UserServiceImpl
-UserRepository: UserRepository
+getUser(user)


SEQUENCE DIAGRAM
BillingService
DiscountService
UserService
UserRepo
User
1 submits Bill
2
15
16
processBill()
3
14
getDiscount()
4
7
getUser()
5
6
getUser()
8
13
evaluate User criteria using given conditions
9
12
calculateDiscount()
(calculate discount amount)
10
11
fetchGroceryItems()
register User
1
6
2
5
saveUser()
3
4
saveUser()