



context Product **inv** minStock: self.stock \geq 5

context GoldCustomer **inv** salesAmount:
 self.sale \rightarrow select(s | s.paid).cost \rightarrow sum() \geq 100000

context Customer::newCustomer(name:String, p: Portal): Customer
 post result.oclIsNew() and result.name=name and result.portal=p

context Sale::addSaleLine(p: Product, quantity: Integer): SaleLine
 pre p.stock > 0
 post result.oclIsNew() and result.sale=self and result.product=p and
 result.quantity=quantity and p.stock=p.stock@pre-quantity and
 self.amount=self.amount@pre + quantity*p.price

context Portal::removeGoldCategory(c: Customer)
 pre c.oclIsTypeOf(GoldCustomer) and c.sale \rightarrow isEmpty()
 post not c.oclIsTypeOf(GoldCustomer)

Figure 1: Running example: class diagram, OCL constraints and operations.