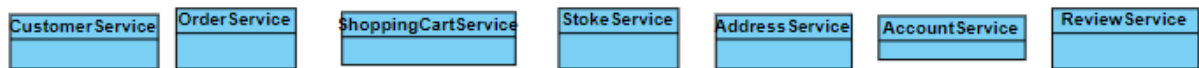


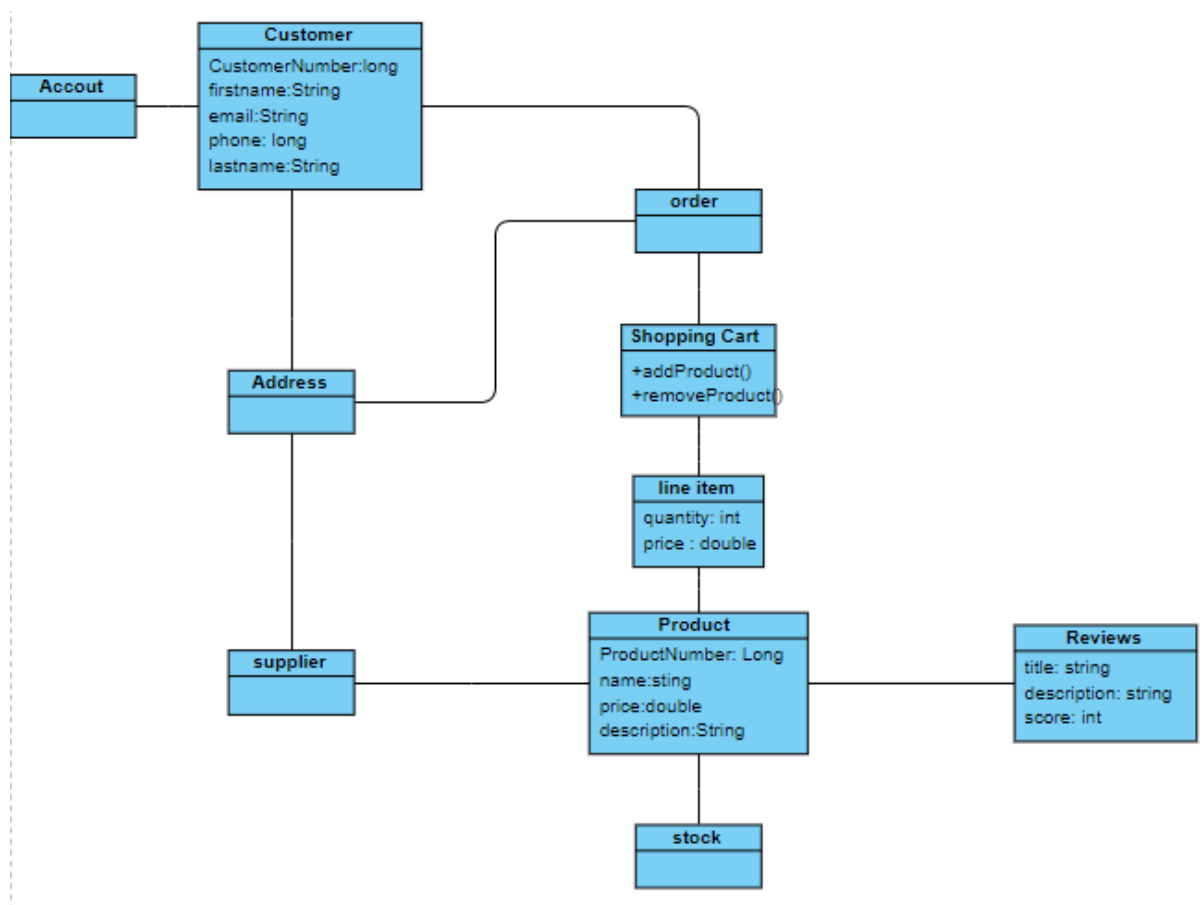
Henok Keraga

Lab2

1 Service layer



Bussiness logic layer



Data Access layer



2 The state can be stored

Client

Adv	High performance High scalability
DIS	Not long time persist

Server

Adv	
DIS	low performance low scalable Not long time persist

Server (data base)

Adv	High scalable Long time persist
DIS	Low performance

3

Integration type	Advantage	Disadvantage
RMI		High coupling Synchronous
Messaging (JMS)	Have buffer Asynchronous Low coupling	Need middleware
SOAP	Have standard security ,transaction and interface description	Complex Synchronous
REST	simple	No standard Synchronous
Serialized objects over HTTP		High coupling
Database integration		High coupling
File based integration		High coupling

4 Advantages and disadvantages of distributed systems

ADV	Extra resource (CPU, Memory, ...)
DIS	Complex (security ,transaction) Slow remote call