DSAN 6300 Lab – Brian Kwon

A diagram of a packet

Description automatically generated

**What does this diagram enforce and what it does not enforce in relationships between package, sender and receiver?**

Customers participate in “sends” relationship as senders, receivers, or both with customer\_id as their primary key. Customer and packet have many-to-many relationships, which means they can send or receive multiple packages. Not all customers participate in “sends” relationship (partial participation), but all packages in the databased are sent are received by customers. The “sends” relationship also has attributes which are the time when the package is sent and received.

On the other hand, what the diagram can’t enforce is the time when each package has gone through a place. Also, the packages don’t have attributes the place they have gone through since the place is other entity set, so customers can’t track their packages’ locations because there is no direct relationship between customer and place entity sets.